



وزارة التعليم
Ministry of Education



Saudi Standard Classification of Educational Levels and Specializations

1441 AH - 2020 AD





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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

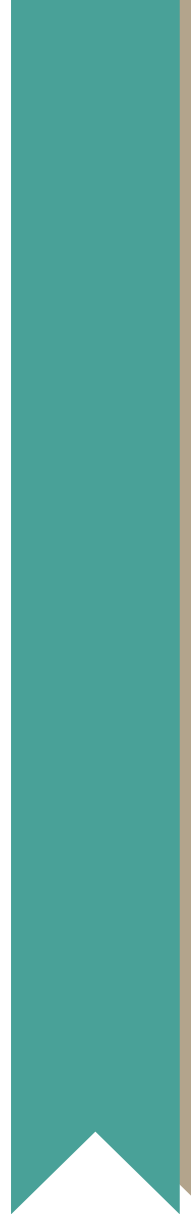


Table of Contents

7 Introduction

9 Word of H.E. Minister of Education

11 Chapter One: Classification Reference and Methodology

Classification Purpose and Objectives.....	13
Classification Importance.....	13
Legal Framework Of The Classification.....	14
Classification Uses and Beneficiaries	14
Classification Scope and Limits	16
Concepts And Definitions.....	16
Classification Approach	21
Mechanism of The Future Update of The Classification	21
Entities Participated In The Classification	22

23 Chapter 2: Classification Of Educational Levels

Introduction	25
Educational Levels Classification Unit	25
Mechanism of Coding Educational Levels	26
Standards For Classifying The Educational Levels	28
The General Framework For Classifying The Educational Levels	32
Level Number (0): Early Childhood Education	33
Level 1: Primary Education	36
Level (2): Intermediate Education	38
Level (3): Secondary Education	40
Level (4): Associate Diploma	42
Level (5): Intermediate Diploma	45
Level (6): Bachelor's Degree or Equivalent	48
Level (7): Master's Degree or Equivalent.....	52
Level (8): Ph.D.or Equivalent	56
Paths of Transition and Progression Through Educational Levels in The Saudi Educational System	59

65 Chapter 3: Classification Of Educational Specializations

Introduction	67
Educational Specialization Classification Unit	67
Mechanism For Coding Educational Specializations	70
Standards For Classifying The Educational Specializations	74
The General Framework For Classifying The Educational Specializations	77
Field (00): Generic Programs And Qualifications	79
Field (01): Education.....	125
Field (02): Arts And Humanities	181
Field (03): Social Sciences, Journalism, Information	247
Field (04): Business, Administration And Law.....	281
Field (05): Natural Sciences, Mathematics and Statistics.....	335
Field (06): Information And Communications Technology	397
Field (07): Engineering, Manufacturing And Construction	413
Field (08): Agriculture, Forestry, Fisheries And Veterinary.....	487
Field (09): Health and Welfare	505
Field (10): Services	664

709 Appendices

Appendix (1): Index of Specializations According To Educational Fields.....	710
Appendix (2): Index Of Specializations According To Alphabetical Order ...	719

Introduction

Upgrading education's efficiency and quality in institutional and educational dimensions in the Kingdom of Saudi Arabia and using it effectively to enable graduates to contribute effectively to achieve development is considered one of the essential priorities adopted by the Ministry of Education. These efforts aim to accomplish the targeted economic, social and development goals and keep pace with the Saudi vision 2030.

Natural resources are no longer the only base of development, as the knowledge economy became a significant pillar in development plans. It assumes that education is the main component of the knowledge economy and sustainable development and a fundamental guarantee for nations' security. Therefore, we need advanced and high-quality education following international standards and governing systems to continuously classify, develop, measure and evaluate educational levels and specializations. This will enhance the orientation of educational programs and specializations to build knowledge and skills compatible with the global labor market requirements and provide graduates with new qualitative specializations and efficient flexibility to keep pace with future career changes.

From this standpoint, the Council of Ministers issued Resolution No. (701) dated 26/12/1441 AH to form a technical team in the Ministry of Education with the participation of representatives from: (The Ministry of Human Resources and Social Development*, General Authority for Statistics, The Education & Training Evaluation Commission, Saudi Commission for Health Specializations, Saudi Council of Engineers, Saudi Organization for Certified Public Accountants, Saudi Bar Association, Technical & Vocational Training Corporation, Secretariat of the Military Service Council and the National Information Center). They will work on developing a Saudi Standard Classification of Educational Levels and specialization, in light of International Standard Classification of Education (ISCED 2011, 2013), provided that it shall include descriptions of these specializations.



Word of H.E. Minister of Education

Dr. Hamad Bin Mohammed Al-Shaikh

An extension of the Kingdom's great interest in the human being, his construction, and development of the human resources system from education and training point of view, through the adoption of the state many initiatives and development programs that make the human being a focus for development and construction, In continuation of these efforts, the growth rates in all education and training indicators increased and multiplied and diversified at the level of the Kingdom's regions and governorates, considering intensive efforts towards further improvement of education results and outputs.

In completion of the tremendous efforts to expand education in its dimensions, and to improve its outputs, the state has taken great care of the outputs and results of educational and training institutions; to meet the needs of the labor market, and to promote and support the education and training system by trained human qualifications, in quantity and quality, in various development and global experiences paths; to achieve the goals of the Kingdom's 2030 vision, and specifically to achieve the general strategic goal (increasing employment rates), which is branching out to detailed third-level objectives: to improve the ranking of educational institutions (such as universities), to provide qualitative knowledge of the distinguished in the prioritized fields, and to ensure that education outcomes and market needs are aligned.

In this context, Cabinet Resolution No. (701) dated (26 /12 / 1440H) was issued to instruct the Ministry of Education chairing the technical team concerned with preparing the Saudi Standard Classification for Educational Levels and Specializations; to be a starting point, to link and consist between the specializations and qualifications offered by educational and training institutions, and the skills and competencies the labor market needs in both the governmental and private sectors; and for all agencies to work in high consistency, to fulfill the aspirations of the wise leadership - may God bless it - in our homeland.

It can be said that this classification provides a tight organization, which enables statistics-based agencies to improve its performance, after standardizing the definitions of specializations and educational levels and facilitating the exchange of data and information between entities efficiently and accurately. Besides, This classification enables educational and training institutions to document, and enhance the students' knowledge and skills needed to enter the labor market and make transferring them among the educational institutions highly flexible, besides creating unprecedented quality and harmonization between educational and training institutions compatible with the needs of the labor market. This classification is also an organized structure of Unified National Employment platform inputs, which helps to establish an accurate system for tracking graduates in the labor market.

The Saudi Standard Classification of Educational Levels and Specializations is constructed based on criteria that primarily aligned with the International Standard Classification (ISCED 2011, 2013); to be a reference that determines the level of qualification the graduate should attain to enter the labor market and improve attracting talents for different educational institutions, in addition, to facilitate the benchmarking process between universities and educational institutions.

In the end, on behalf of the team, I extend my thanks and gratitude to the position of the Custodian of the Two Holy Mosques King Salman bin Abdulaziz, and his Crown Prince His Royal Highness Prince Muhammad bin Salman bin Abdulaziz - May God protect them - for their generous giving, wise opinion, and continuous support; to move the education process forward, through introducing a Saudi Standard Classification for Educational Levels and Specializations, and other efforts, to leverage this homeland and its prosperity and growth.



Chapter One

Classification Reference and Methodology

- Classification Purpose And Objectives.
- Classification Importance.
- Legal Framework Of The Classification.
- Classification Uses And Beneficiaries.
- Classification Scope And Limits.
- Concepts And Definitions.
- Classification Approach.
- Mechanism of The Future Update of The Classification.
- Entities Participated In The Classification.

Classification purpose and objectives

The Saudi Standard Classification of Educational Levels and Specializations constitutes a national-broad initiative to monitor, classify and analyze education programs, specializations and qualifications provided by all educational institutions and education and training sectors in the Kingdom of Saudi Arabia. It also sets clear and specific details for the flow, transmission and progress paths within the educational system according to fixed and unified standards in light of international standards for classifying levels and fields of education. This is to help internationalize national education programs and their acquired qualifications and organize them into homogeneous groups of fields, specializations, and education levels comparable and can be interpreted at the international level.

Classification is one of the main pillars on which the Unified National Employment Platform depends on one of the inputs that link educational specializations to appropriate job opportunities for each specialty. It helps organize recruitment processes in the government and private sectors, align job opportunities appropriately for graduates of each specialization, and provide excellent service for students in their plans for educational and professional lives. It will also help leaders and decision-makers in the education and training sectors in the Kingdom achieve integration between education outcomes and labor market requirements, enhancing efforts to develop the labor market and providing more job opportunities.

Classification Importance

The importance of classification and the need for it emerged mainly from non-standardization, repetition and absolute pluralism of educational program names, specializations, and qualifications gained from them despite being very similar in structure and content. This created a significant problem with the relevant authorities in the labor market, employment, etc. this problem was represented in the great challenge of comparing performance between programs, specializations, educational levels and acquired qualifications or monitoring the progress made towards achieving national and global goals. Therefore, it was necessary to correctly understand the inputs, educational processes and results of educational systems from a comprehensive perspective in which data and names are standard and comparable.

Therefore, the Saudi Standard Classification of Educational Levels and Specializations came to constitute a unified reference and standard framework for planning educational programs, levels and qualifications that they gained and educational and training institutions rely on when planning their educational programs, levels, qualifications, development and evaluation. In addition, the recruitment agencies rely on this classification to link outputs of the educational system with the needs of the qualified and trained human resources of the labor market, which is reflected in achieving common features and specifications that provide mutual reliability and provide graduates with broad opportunities for employment and competition for national, regional and international labor markets.

This classification also sets a standard system for educational levels, which the student studies in the Kingdom since the beginning of their educational journey. This system will help institutions in the public and private sectors to subject learners to a specific classification according to their qualification level and help them plan their educational and professional lives.

Legal Framework Of The Classification

Building this classification is based on Council of Ministers Resolution No. (701) dated (26/12/1441 AH), which approved the Saudi Standard Classification of Educational Levels and Specializations based on the updated International Classification (ISCED 11, 13) and the corresponding linking tables attached to that. The resolution also included the formation of a technical team at Ministry Of Education with the participation of representatives from (Minister of Human resources and Social Development, General Authority for Statistics, The Education and Training Evaluation Commission, Saudi Commission for Health Specializations, Saudi Council of Engineers, Saudi Organization for Certified Public Accountants, Saudi Bar Association, Technical and Vocational Training Corporation, Secretariat of the Military Service Council and the National Information Center) to work on developing a Saudi Standard Classification of Educational Levels and Specializations that include descriptions of those specializations.

Classification uses and beneficiaries

This classification is created to be easy for use in many fields, namely:

Education planning and development

This classification seeks to build a common language about the description of educational levels and specializations and classify them according to specific criteria, to make it easier for those responsible for planning and development in the various educational institutions in the education and training sector in the Kingdom of Saudi Arabia to communicate about them, plan them and find opportunities for further development and improvement to them. Besides, the classification will help in:

- Facilitating the transfer process among educational institutions
- Facilitating the benchmarking between universities and educational institutions
- Facilitating the process of designing educational programs that compatible with the labor market

Educational and Professional planning for learners

The classification is a useful tool for students and a procedural guide that helps them to plan their educational and professional future, with clarity of opportunities, specializations and educational levels that students will pass through. This will help them determine the path and the appropriate level and planning it accurately, and ultimately, this will fulfill one of the Saudi 2030 vision's goals.

Employment and labor market development

This classification contributes as an effective means that aims at planning and developing the labor market, fulfilling its needs, organizing recruitment processes in the government and private sectors, achieving justice and transparency principles, tracking graduates from different specializations in the labor market and identifying accumulated specialties or those that are in increasing demand by placing a clear map of educational and career opportunities and the link between them. This classification also seeks to find a common language agreed upon by the educational sectors and the private sector institutions on different educational specialties, as it explains the nature of specialization, similar specializations, and the most important courses that are taught in it, which will enable workers in the private sector to enjoy the value that graduates of different specialties will bring. For example, many employers of private sector institutions are unaware of the (Operations Research) college major, although its graduates offer high value in solving the complex problems faced by institutions, and improving its decision-making processes at all levels. In this classification, employers will be able to read about this specialization and others and find out how it can add value to their institutions.

On the other hand, classification is an essential step for linking careers, specializations and educational levels. With the efforts of the Ministry of Human Resources and Social Development in developing the labor market statistics system, we will be able to determine the nature of the professions most in demand, or the least demanded. The educational level required for each profession, thus educational institutions will benefit from it in planning their educational programs. This classification will be the language of dialogue and understanding between private sector institutions and educational institutions to achieve the maximum employment of human resources and the desired development goals.

Education statistics

This classification's levels, fields and gained qualifications comply with the International Standard Classification of Education (ISCED-F) (2013) and (ISCED-P) (2011). Therefore, at the local and international levels, the entities responsible for statistics can rely on it to collect data and statistics and make comparisons at the international level, as considered an essential tool to improve educational statistics through:

- Raising the quality of statistics, as the classification unifies the concepts related to specializations and educational levels.
- Reducing the variance of statistics provided by educational institutions.
- Facilitating the exchange of data and information between the parties due to the reduced need for linking tables.

Classification Scope and Limits

This classification is primarily designed to describe and classify the education specializations, fields, and levels available to the individuals during any period of their life. It covers a wide variety of education programs planned in the national context of primary, intermediate, secondary and post-secondary non-higher education, Higher education, various training programs, literacy programs, adult education, continuing education, e-learning, technical and vocational education and education for people with special needs, as long as he obtained an educational qualification recognized by the relevant authorities.

The classification includes all types of education (formal and informal) as long as the participating individuals are granted a recognized and approved certificate by the official authorities concerned in the Kingdom and achieve the minimum criteria for enrollment in the program and successfully complete it as specified in the classification criteria in the guideline.

Concepts and Definitions

The following terms and phrases, wherever mentioned in this classification, shall have the definitions ascribed to them unless the context requires otherwise.

An education designed:

Education programs are designed to develop learners' general knowledge, skills, competencies, literacy, and numeracy skills. They prepare students towards more advanced educational programs at the same level or a higher level and consolidate the foundations of lifelong learning. General education programs are usually based on school-level education, and include educational programs designed to prepare students to enter vocational training, but do not prepare them to work in a profession or a specific work. It does not directly lead to obtaining a suitable qualification for the labor market.

Vocational Education:

Education designed for learners to acquire knowledge, skills, and competencies relevant to a profession, or a specific vocation or group of occupations or jobs, and vocational education can include elements based on work such as apprenticeships. Successful completion of these programs leads to the acquisition of job qualifications related to the labor market and recognized as a profession by the relevant government agencies, or the labor market.

Formal Education

Intended institutional education, authorized by public institutions, and recognized private entities collectively constitute the formal educational system of the state. Formal educational programs are recognized in this format by the specialized national educational authorities or equivalent.

Non-Formal Education

It is an institutional education which intended and planned by the education provider and constitutes as an addition, or a substitute complementing of the formal education within the lifelong learning process. It aims to secure access to education for all, and it is provided to people of all ages, but it does not necessarily apply the structure of a continuous education system and can be for a short duration, with low intensity, and in the form of short studying courses, workshops or seminars. It often leads to unrecognized qualifications by the relevant national educational authorities. It covers programs that contribute to the provision of education for students outside of school, and they address life skills programs, work skills, and social or cultural development programs.

Training

Form of education designed to achieve specific learning goals, particularly in the field of technical and vocational education. The definition of education in this classification includes training.

Qualification

Formal approval of successful completion of an educational program, or a phase of a program by the concerned national authorities, and it is awarded upon completion of the learning objectives of the program.

First Degree

A degree awarded upon successful completion of an educational program at the level of (ISCED6) or (ISCED7) and does not require successful completion of any degree at the level of (ISCED 6) in advance to enter the concerned educational program.

Second or Extra Degree

A degree awarded upon successful completion of a program at the level of (ISCED6) or (ISCED7) which requires completing a pre-successful program at the level of (ISCED6) or (ISCED7) to enter the concerned educational program.

Cumulative Duration

The total of a theoretical period of a series of educational programs, and according to ISCED classification, the cumulative duration from the beginning of the (ISCED1) level, (ISCED3) level, or from the beginning of higher education, often necessary for the purpose of classifying the educational program.

Duration of theoretical study

Time, expressed in academic years/study units/credits, which it takes to teach an educational program, with the assumption of regular participation, and on a full-time basis.

The minimum study period

The minimum theoretical study period for an educational program; in order to classify the program at one of the classification levels, or to determine the completion of one of the levels.

The number of credit hours

The amount of time required to achieve the intended learning outcomes, and / or complete the requirements for success in the program, to obtain the qualification (the credit hour is not less than 50 minutes).

Educational Program

A coherent or consecutive set of learning experiences and activities designed and organized to achieve pre-determined learning outcomes, or to complete a specific set of educational assignments that extend for a sustainable time period.

Education Levels:

Arranging the education programs and acquired qualifications according to the hierarchy of learning experiences, and according to the knowledge and skills that the program is designed to develop. Each level reflects the degree of complexity and specialization in the contents of educational programs from a general foundational degree to a specialized complex degree, starting from the entry-level (0) upward to the Ph.D. level (8). The levels cover general education, technical and vocational training and civil and military higher education.

Early Childhood Education (Entry): Level (0)

Programs that provide comprehensive teaching and learning activities to foster children's cognitive, physical, social and emotional early development and introduce young children to organized education outside the family environment to develop some necessary skills in preparation for teaching and learning and prepare children for primary education.

Primary Education: level (1)

Programs that provide teaching and learning activities that are usually designed to provide students with basic learning skills in the areas of reading, writing and arithmetic to create a solid foundation for learning and correct understanding of the basic areas of knowledge, character development and middle school preparation and focuses on learning at a limited level of complexity with a small amount of specialization if any.

Intermediate Education: Level (2)

Programs at this level are designed based on learning outcomes of the elementary education level (1). It aims to consolidate the foundation for lifelong learning and human development, which educational systems rely on to provide more educational opportunities, and programs are usually focused on this level to be more oriented to study subjects associated with introducing theoretical concepts by a broad group of subjects.

Secondary Education: Level (3)

Programs that aim to complete secondary education in preparation for higher education or provide students with work-related skills, or both. At this level, programs provide students with a more varied, specialized and in-depth education and include a broad range of available options and paths.

Post-Secondary Non-Higher Education (Associate Diploma): Level (4)

Programs that mainly aim at qualifying students for the labor market and higher education. It is intended for students who have completed secondary education but wish to increase their opportunities to either enter the labor market or progress towards higher education. This level aims to reach learning below the higher level with a degree of complexity less than, which is characterized by higher education.

Higher Education: Levels (5-8)

Programs that provide learning activities in specialized areas of education and aim to achieve learning at a higher level of sophistication and specialization. Higher education includes what is known as academic education, but it also includes advanced technical education programs. The design of programs at this level of education depends on the results of secondary education.

Completion of the level:

It means successful completion of the educational program for this level. The successful completion of an educational program at one classification level is considered a completion of that level if the program meets the content standards and the minimum duration of the concerned level.

Access to higher level :

It means a classification of programs that are enough to complete the level successfully and with accreditation, into programs that provide direct access to the higher levels and programs offer no access to the higher levels.

Specialization:

A series of education activities or communications designed and organized to achieve the pre-established learning goals in a specific area of specialization and ends with a specific and recognized qualification.

Student:

An individual actively enrolled in an educational program or a part of it.

Included Specializations:

These are standalone specializations, but they are similar in most of the courses they offer to the courses offered by the main specialization.

Classification Methods

The classification action plan adopted the analytical curriculum mechanisms and tools based on content analysis methods for all levels and national educational specializations that were monitored and collected from all sectors of education and training in the Kingdom. It is one of the quantitative tools for the descriptive-analytical approach, as it was adopted and prepared the work plan of the technical team assigned on its basis. It was taken into consideration that the plan established to build the Saudi Standard Classification of Educational Levels and Specializations with its various analytical tools will create a kind of balance between two important aspects:

- The names of educational specializations provided by all sectors of education and training in the civil and military sectors in the Kingdom.
- Educational specialization names according to the regulations of the Ministry of Human Resources and Social Development, qualifications and training programs that provide these specializations.

Mechanism of The Future Update of The Classification

The Saudi Standard Classification of Educational Levels and Specializations is updated and maintained regularly as planned through coordination and communication between the MOE and other relevant stakeholders participating in the classification to ensure consistency of future classification updates with the requirements of those entities to achieve the objectives and purpose of the classification. In light of this, the future update mechanism is determined for classification as follows:

- Forming a unit / permanent committee for updating the classification, which brings together in its membership: experts from related entities.
- The committee receives universities and relevant ministries' requests to classify the newly created specializations not mentioned in the Saudi Standard Classification via an electronic form that accompanies the study plan and description of the academic content of the specialization courses required to be classified.
- The specialization is classified and included in the appropriate field within the approved classification structure, considering the criteria for classifying educational levels and specializations stipulated in the classification document (see pp. 28-63, pp. 74-76).
- After completing the new specialization classification and settling it within the approved classification structure in its appropriate field, it will be coded automatically through the approved coding system.

Entities Participated in the Classification:

MOE undertakes full supervision of this classification, publishing and updating it and relevant government, semi-government and professional bodies have been invited to participate in building the classification, updating it permanently and continuously in the future and providing scientific opinion when needed, as stated in the Council of Ministers Resolution No. (701) dated (26/12/1441 AH). These bodies were:

- Ministry of Human Resources and Social Development
- Saudi Council of Engineers
- Saudi Organization for Certified Public Accountants
- General Authority for Statistics
- Technical & Vocational Training Corporation
- Education and Training Evaluation Commission
- Secretariat of the Military Service Council
- Saudi Commission for Health Specializations
- National Information Center



Chapter 2

Classification of Educational Levels

- Introduction
- Educational Levels Classification Unit
- Mechanism of Coding Educational Levels
- Standards for classifying educational levels
- The general framework for classifying educational levels
 - Level 0 early childhood education
 - Level 1 Primary Education
 - Level 2 Intermediate Education
 - Level 3 Secondary Education
 - Level 4 Associate Diploma
 - Level 5 Intermediate Diploma
 - Level 6 Bachelor or equivalent
 - Level 7 Master or equivalent
 - Level 8 Ph.D. or equivalent
- Paths of Transition and Progression Through Educational Levels

Introduction

The Saudi Standard Classification of Educational Levels provides a unified national directory for classifying educational levels and programs offered by all educational institutions in the Kingdom, in graded vertical levels, according to the hierarchy of learning experiences, knowledge, skills and values that each program is designed to transfer.

The foundations of placement educational programs and their standards at the levels adopted in the (Saudi Standard Classification of Educational Levels and Specializations) reflect the standards of the International Standard Classification of Education (ISCED-P 2011) in terms of degree of complexity and specialization, in content of educational programs, from a general foundational degree to a more specialized sophisticated level, the degree of accumulation of experiences, knowledge, skills and values for each level, its arrangement in the structure of national qualifications, entry and exit points from the program, the duration of the study, the number of credit hours for the program, the orientation of the program, the extent of completing the program, ... and other complementary standards to classify programs according to the educational level that conforms to the criteria specified in the International Standard Classification of Education (ISCED-P 2011).

As for the compatibility in the standards between the Saudi Standard Classification of Educational Levels and the International Standard Classification of Standard Education, it will contribute to internationalizing national education programs, their acquired qualifications, converting them to comparable levels and international interpretation, developing and evaluating them and setting clear and specific parameters for the flow, transition and progress within the educational system in accordance with fixed and unified standards for all educational institutions that provide education and training services within the Kingdom, which enhances the spirit of competition in the labor market, thus contributing to advancing development in the Kingdom and helping to put more efficient mechanisms to adapt academic programs according to the needs of the labor market.

Educational Levels Classification Unit

The Saudi Standard Classification of Educational Levels and Specializations builds its classification of educational levels based on national education programs - supervised by the Ministry of Education, the Technical and Vocational Training Corporation, universities and military sectors - and the relevant educational qualifications acquired and recognized as a standard basis unit classified for educational levels.

Coding mechanism:

The levels were coded in the Saudi Standard Classification of Educational Levels and Specialization and classified by following the mechanism used in the International Standard Classification of Education (ISCED-P 2011), starting from (0) for the entry-level (early childhood education) until number (8) for the Ph.D. level. Each program is given a three-digit code representing the first number from the left the level code and the second number the sub-level code, while the third number represents the sub-category code. As an example to clarify the way to deal with these codes, the code (354) indicates the coding of the secondary vocational education program, where the main level, from the left, represented by the code (3), which indicates the level of secondary education, and the middle code (5) represents the sub-level occupational orientation of the program,. The last code from the right (4) shows the completion of the program with recognized success sufficient to complete the level with direct access to the programs at the level of higher than the classification levels. The following table shows the meaning of the code in each box:

The coding table used in the Saudi Standard Classification of Educational Levels

The main levels code (the first digit)	
0	Early childhood education
1	Primary education
2	Intermediate education
3	Secondary Education
4	Associate Diploma (Post-Secondary Non-Higher Education)
5	Intermediate Diploma
6	Bachelor's degree or equivalent
7	Master's degree or equivalent
8	Doctorate's degree or equivalent

Sub-level code (The second digit)		The link with the main level
0	Not Further Defined	linked with primary education level 1
1	Early childhood development	Type of program: Linked with Early childhood Education Level 0
2	Education Before primary	
3	Elementary grades (some primary education without completion of level 1)	
4	General education / academic education	Program orientation: Linked with the main levels 2-8
5	Vocational education / technical education	
6	Orientation unspecified	Program orientation: Linked with the main levels 6-8
7	-----	-----
8	-----	

Categories code (The third digit)		The link with the main level
0	Not Further Defined	It is linked with Early Childhood Education Level 0 and Primary Education Level 1
1	-----	-----
2	-----	-----
3	The successful completion of the program is sufficient to complete the level, but without direct access to a level higher than the classification levels	Completion and Accessing: Linked to the main levels (2 - 3 - 4 - 5 - 8)
4	Successful and recognized completion of the program sufficient to complete the level with direct access to programs at a higher level	
5	Bachelor program or equivalent (3-4 years)	The ranking in the structure of national qualifications: linked to the main levels (6-7)
6	The First Long-term Certificate Program of Bachelor's or Master's Degree or equivalent (5 years or more)	
7	A second or additional degree program after bachelor's degree or equivalent	
8	-----	-----

Standards for classifying educational levels

The placement of educational programs and their classification in educational levels in the Saudi Standard Classification of Educational Levels and Specializations was done in the light of studying the compatibility between the International Standard Classification of Education (ISCED-P 2011), the Saudi Qualifications Framework and a map of general and vocational education programs for the Kingdom accredited by the UNESCO Institute for Statistics (UIS) and educational programs offered by the Kingdom's military sectors.

Educational levels in the Saudi Standard Classification of Levels and Specializations are

comprehensive because they cover the sectors of general and higher education, technical and vocational training, the military sectors, special education and continuing education programs in the Kingdom. They are characterized by flexibility as they provide students with various opportunities to move and progress between levels of education and its various sectors and join programs and qualifications registered within the classification levels.

A set of main criteria has been adopted to classify educational programs offered by all sectors of education and training in the Kingdom and to accommodate them in the appropriate educational level.

It is worth noting that groups of specific criteria for classifying programs at each level are guide criteria used only to classify programs and to accommodate them at the educational level appropriately. These criteria are not legal norms or regulations controlling registering participating students or enroll them in any of the educational programs. For example, the official age criteria for entering the program, the cumulative age, length of program or number of credit hours are express of the official model for regular educational programs approved by the educational system, given that the student has enrolled at the first level, the level of primary education at the official age for entry (6 years), and graded vertically from one educational program to another without repetition or leakage.

The following provides an overall description of the main structure of the standards that have been adopted in the classification of these levels, according to the nature and standards of each level:

1. Minimum requirements for entry into the level.
2. The cumulative study period for the level.
3. Credit hours or their equivalent.
4. Duration of the program.
5. The official age of entry into the level.
6. Program orientation.
7. Completion of the level and Access to higher levels.
8. The institutional and educational context of the program.
9. Level ranking in the structure of national qualifications.

Summary of the criteria for levels classification in the Saudi Standard Classification

The following table shows the categories of criteria that have been used in the classification of education programs. As shown in the table, there is a difference between categories of criteria from one level to another. Each program will be classified primarily based on the main criteria for each educational level. While classifying other programs may rely on the sub-criteria when information and data are scarce about the main criteria for each educational program.

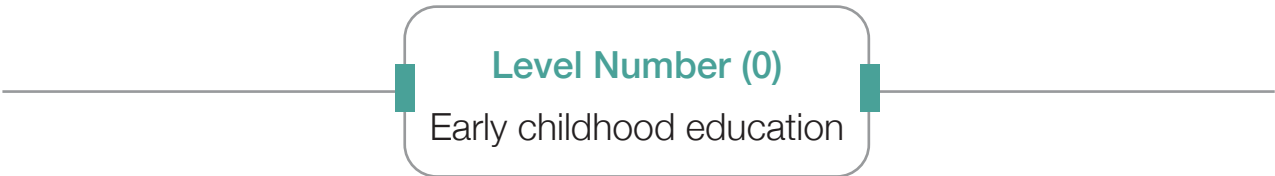
Classification level	Main criteria	Sub criteria	Complementary dimensions
Level 0 Early Childhood Education	<ul style="list-style-type: none"> The educational characteristics of the program The institutional context of the program The target age group of children program duration 	<ul style="list-style-type: none"> Qualifications of teachers Provides the organizational framework for the program Not part of formal education 	The target age group is the only dimension that represents level 0 (ECC)
Level 1 Primary education	<ul style="list-style-type: none"> Systematic learning of basic skills and competencies The Official age of enrollment Duration of the program Regular attendance by one classroom teacher, often 	The program is part of compulsory education	-----
Level 2 Intermediate education	<ul style="list-style-type: none"> Transitioning to more specialized education in courses Requirements for enrollment in the program The duration of the cumulative study, starting from level 1 	<ul style="list-style-type: none"> The official age to enroll in the program Education by a specialized subject teacher Qualifications of teachers Part of compulsory education 	<ul style="list-style-type: none"> There are two dimensions to distinguish programs at level 2: <ul style="list-style-type: none"> The orientation of the program is general / vocational Completion and access to programs at level 2 <ul style="list-style-type: none"> * Completion of Level 2 with direct access to Level 3
Level 3 secondary education	<ul style="list-style-type: none"> The final stage of general and vocational secondary education Requirements for enrollment in the program The duration of the cumulative study, starting from level 1 	<ul style="list-style-type: none"> The programs are more specialized and distinguished, with a broad range of educational paths and opportunities Qualifications of teachers 	There are two dimensions to distinguish programs at level 3: <ul style="list-style-type: none"> Two categories of program orientation: general / vocational Two levels of completion and access: <ul style="list-style-type: none"> * Completion of Level 3 without direct access to higher education programs levels 5, 6 and 7 with access to Level 4 programs Associate Diploma * Completion of level 3 with direct access to higher education programs levels 5, 6 and 7

Classification level	Main criteria	Sub criteria	Complementary dimensions
Level 4 Associate Diploma Post-secondary, Non-higher	<ul style="list-style-type: none"> • Program orientation • The content is more sophisticated than level 3 and lower than the tertiary level • Entry requirements 	-----	There are two dimensions to distinguish programs at level 4: <ul style="list-style-type: none"> - Two categories of program orientation: general / vocational - Two levels of completion and access: <ul style="list-style-type: none"> * Completion of level 4 without direct access to higher education programs levels 5, 6 and 7 * Completion of level 4 with direct access to higher education programs levels 5 and 6
Level 5 Intermediate Diploma Short-term higher education	<ul style="list-style-type: none"> • The academic content of the programs offered at Level 5 intermediate diploma • Entry requirements • The minimum duration of the program 	<ul style="list-style-type: none"> • The Institutional transition point for higher education • The typical official study period of the program 	There are two dimensions to distinguish programs at level 5: <ul style="list-style-type: none"> - Two categories of program orientation: general / vocational - Two levels of completion and access: <ul style="list-style-type: none"> * Non-completion of the level: The duration of the program is less than two years, so it is not enough to complete the level * Completion of the level: The duration of the program is not less than two years, so it will be sufficient to complete the level
Level 6 Bachelor's and equivalent	<ul style="list-style-type: none"> • The academic content of the program is based on theoretical / practical basis • Entry requirements • The minimum cumulative term for the program (first university degree) • Arranging the program in the national structure of educational qualifications 	Qualifications of faculty members	Two dimensions to distinguish programs at level 6: <ul style="list-style-type: none"> - Two categories of program orientation: general / professional - Three levels of completion and access: <ul style="list-style-type: none"> * First degree programs at the level of the bachelor's or equivalent: The period of cumulative theoretical study at the level of higher education is 4 years * Long-term undergraduate degree programs (5 years) at bachelor's level or equivalent: a period of theoretical study at a higher education level of more than 4 years * Second or additional certificate programs (higher diploma) at the bachelor's level or equivalent: Successful completion of the first-degree program at bachelor level or equivalent
Level 7 Master's and equivalent	<ul style="list-style-type: none"> • The academic content of the program is based on theoretical / practical basis • Entry requirements • Arranging the program in the national structure of educational qualifications 	<ul style="list-style-type: none"> • The minimum cumulative period for long-term first-degree programs • Direct access to programs at Ph.D. level 8 and equivalent 	Two dimensions to distinguish programs at level 7: <ul style="list-style-type: none"> - Two program orientation categories are general / professional - Two levels of completion and access: <ul style="list-style-type: none"> * Long-term first-degree programs at the master's level or equivalent (6 years): Theoretical period of study at the level of higher education exceeds five years and does not require enrollment in previous programs on higher education * Second or additional-degree programs at the master's level or equivalent: Successful completion of the programs at the bachelor's level or equivalent is successfully followed

Classification level	Main criteria	Sub criteria	Complementary dimensions
Level 8 Ph.D. and equivalent	<ul style="list-style-type: none"> • Requirements for preparing a written study / research • Entry requirements • The minimum period of study per level 	-----	One dimension to distinguish programs at level 8: * Two program orientation categories: General / Professional

The general framework for classifying educational levels

Below is a description of the structure for classifying educational levels and the detailed criteria used to classify each level according to the characteristics of each level:



Level Number (0)
Early childhood education

The main characteristics of the level:

Programs at level (0) or “early childhood education” aim to promote early cognitive, physical, social and emotional development for children and contain an intended educational component to develop some of the necessary skills in preparation for teaching and learning and prepare children’s entry to primary education. They are designed to provide a systematic and targeted set of learning activities that allow the children to learn through their interaction with other children under the supervision of educators, usually through their participation in creative activities and educational games. Programs at Level (0) target children under the age of entry to Level (1).

The main criteria for the level:

1. The official level age:

Within the level of (0) early childhood education programs are directed to children from birth until the official age at which level (1) begins.

2. Duration of study for the level:

Duration of study at level (0) as a minimum is equivalent to at least two hours per day and for 100 days of educational activities per year.

3. Level sub-levels (0):

There are two sub-levels for level (0) early childhood development and pre-primary education.

Early childhood development:

Programs of a systematic educational nature that includes educational content intended for children who are in the age group from zero to two. The characteristics of educational programs for early childhood development are distinguished by containing a stimulating learning environment for visual and linguistic learning and encourages self-expression with a focus on language acquisition and use in communication. They provide opportunities to learn with active play so that children can practice their coordination and movement skills under the supervision of a group of qualified breeders by interacting with them.

Pre-primary education:

Programs of a systematic educational nature that includes educational content intended for children from 3 years to the beginning of level (1) primary education. These programs are characterized by developing children's ability to use language and social skills, developing logical and mental skills, introducing them to the alphabet and numeracy and encouraging them to explore the world and the surrounding environment and to take advantage of motor activities, educational games and learning as opportunities to promote social interaction among peers and the development of skills, autonomy and get ready for school.

4. Level institutional context:

Programs at level (0) are organized into buildings / dedicated schools or are presented in the form of institutional programs for a group of children within the educational center or a local community. Learning is organized for children provided by parents or other relatives or friends, are not included in level (0).

5. Other programs covered by this level (0):

Level (0) includes programs for children with special needs, complying with the standards of level (0) set out in the properties and the main criteria for the level (0) without regard to their age stage.

6. Classification codes for level (0):

Level (0) is used for individuals who have followed early childhood development programs or pre-primary education programs or who have followed some of the primary education (primary without completing the level) but have not successfully completed level (1).

Level 0			
Level code	(0)	Level name	Early childhood education
Sub level	Target age group	Sub-level code	
Early childhood development	All children under 3 years	010	
Pre-primary education	All children from 3 to under 6 years old	020	
Elementary without completing the level	The first three grades of primary education	030	

Level Number (1)

Primary education

The main characteristics of the level:

Primary education programs at level (1) aim to provide students with basic skills in reading, writing, arithmetic, personal and social development for children and preparation for intermediate education. They focus on learning in general with a small degree of specialization if any. Educational activities are organized in Level (1), especially in the first grades of the level in studying units, projects, or broad areas of learning, rather than teaching specific topics, and often undertaken by one teacher for a group of students, and for organizing the learning process. The class can have more than one teacher, especially for some subjects or units of study. After completing programs primary education, students can continue their education at level (2) intermediate education.

The main criteria for the level:

The educational characteristics of programs at this level are marked by the beginning of the systematic organization of teaching and learning processes in the fields of reading, writing, arithmetic and entering into institutions or programs designed for primary education at the national level.

1. The official entry age at level (1):

Age is the only ordinarily required-entry requirement for this level and the official legal entry age is 6 years.

2. Duration of study at level (1):

This level extends over a period of 6 years, primary education takes at this level until the age of 11 years, and the beginning of primary education coincides with the beginning of compulsory education.

3. Other programs covered by Level (1):

Level (1) includes programs intended for individuals with special needs if the program provides basic education and systematic learning in the areas of basic skills for reading, writing and arithmetic without regard to the age of the participant in the program and this level. It also includes regular adult education programs - continuing education - similar in its content for programs that are classified at the primary education level (1), which targets adults and young adults who are older than the age specified for level (1). Besides, the level includes reintegration programs targeting individuals who left school before completing primary education allowing them to enter the field of the educational system again and the completion of primary education. In general, participants are older than the target age group at level (1).

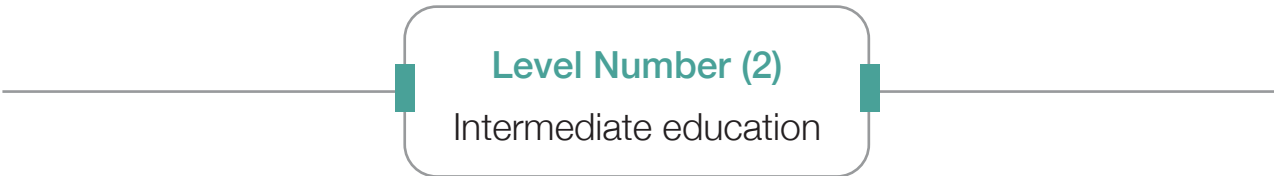
4. Context of Level Institutions:

At level (1), Programs are organized inside schools that provide education as a primary goal. Usually such institutions are approved by the relevant national education authorities.

5. Classification codes for programs at level (1):

The code given for all sub-educational levels at level (1) is 100.

Level (1)					
Level code	(1)		Level name	Primary education	
Entry requirements	Duration of study	Cumulative age	Target age group	Accessibility	Sub-level code
The official age is 6 years	At least 6 years	Till the end of 11 years	6-11 years	Allows access to level (2) Intermediate education	100



Level Number (2) Intermediate education

The main characteristics of the level:

Intermediate education programs at level (2) are designed based on learning outcomes gained from level (1) primary education and programs within this level are geared towards a more targeted approach to a broad range of key learning areas and the introduction of theoretical concepts across them. In this level, teachers receive educational training, and dealing with specific study subjects. Teachers at level (2) often qualified in one or more subjects, in addition to their qualification in a field of education science. The teaching organization is different from Level (1), due to the availability of several teachers in mostly for one class, they teach in their fields of specialization, so that each class of students has teachers specialized in teaching specific subjects at this level more than level (1).

Level 2 classification criteria:

1. Conditions for entry to level (2):

Entry to this level requires completing primary education successfully or completing a specific level of educational attainment (continuing education programs) in order to be able to enter level (2) programs.

2. The official entry age at level (2)

Level (2) begins after the end of 6 years of education at level (1) and students enter level (2) at the age of 12 years and extend over a period of three years, as the end of level (2) coincides with the level of intermediate education with the end of general compulsory education.

3. The cumulative study period:

Level (2) ends after a cumulative period has passed since the beginning of Level (1) of 9 years. At the end of level (2), most students reach 15 years of age.

4. Program orientation at level (2):

According to the orientation of the educational program, there are two sub-levels for this level, which are general education and vocational education.

5. Classification codes for programs at level (2):

Level (2)						
The code of the main level				(2)		
Sub-level name	Entry requirements	Duration of study	Cumulative age	Target age group	Accessibility	Sub-level code
Intermediate education (general)	Primary education certificate	At least 3 years	till the end of 14 years	12-14 years	Access to level 3 secondary education	244
Intermediate education (vocational)						254

6. Other programs covered by Level (2)

Level (2) includes programs designed for individuals with special needs if the program provides teaching and systematic learning designed on the results of the basic teaching and learning processes that have been acquired at level (1) without regard to the age of the participant in the program. This level also includes regular adult education programs (Continuing Education) similar in content to the programs that are classified at the intermediate education level, which target adults and youth who are older than the age specified for the level (2). The level also includes reintegration programs, which focus on individuals who have left school before completing intermediate education, allowing them to enter the educational system again and complete intermediate education. In general, the participants are older than the targeted age group at level (2).

Level Number (3) Secondary Education

The main characteristics of the level:

Secondary education programs at level (3) aim to complete pre-university general and vocational education to prepare for enrollment in higher education or provide learners with work-related skills or both. These Programs offer participating students more specialized and in-depth education in specific topics and areas. They are more variable with the availability of a set of options and paths which are more profound and deeper than the programs at level (2). The teachers will be more qualified and competent and specialized in the learning areas that they are teaching. Level (3) constitutes the final stage of secondary education and pre-university / higher education. The programs are either general or vocational education. Some of them allow direct access to Level (4) the Associate Diploma level or to levels of higher education levels (5), (6), (7).

Level 3 classification criteria:

1. Conditions for entry to level (3):

To enter Level (3), a successful completion qualification is required for the Intermediate Education Certificate Program level (2), which allows access to Level (3) programs.

2. The official entry age at level (3):

Students enter level (3) at the age of 15 years and this level extends over a period of three years.

3. The cumulative study period:

Level (3) begins after 9 years of education have passed since the beginning of level (1) and students usually enter this level at the age of 15 years and level (3) programs end after 12 years have passed since the beginning of level (1) or at the age of 18 years.

4. Program orientation at level (3):

According to the orientation of the educational program, there are two sub-levels for this level, which are general secondary education and secondary vocational education.

5. Classification codes for programs at level (3):

Level (3)						
The code of the main level				(2)		
Sub-level name	Entry requirements	Duration of study	Cumulative age	Target age group	Accessibility	Sub-level code
General secondary education	Intermediate school certificate	At least 3 years	till the end of 17 years	15-17 years	successful completion sufficient to access higher levels, allowing to access to level 4 or higher education levels 5, 6 and 7	344
Vocational secondary education						354

6. Other programs covered by level (3):

Level (3) includes programs designed for individuals with special needs; if the program provides systematic education programs that are equivalent in terms of the complexity of its content to programs previously classified at level (3) without regard to the age of the participant in the program. This level also includes regular adult education programs (Continuing Education) similar in content to programs that are classified at Level (3) Secondary Education targeting adults and youth who are older than the specified age for Level (3) and this level also includes reintegration programs targeting individuals who left school before completing the secondary education, allowing them to enter the field of the educational system again and the completion of secondary education, participants will generally older than the target age group level (3).

Level Number (4)

Post-secondary non-higher education

The main characteristics of the level:

Associate Diploma Programs, Post-Secondary Non-Higher Education, at Level (4) mainly aims to provide students who have completed Level (3) with the non-higher education qualifications they need to pursue higher education or enter the labor market when their requirements are not fulfilled at level (3) of this access. The Associate Diploma programs - non-higher, post-secondary education - grant acquisition of knowledge, skills, values, learning experiences and experiences based on learning outcomes gained from secondary education at the previous level. The content of Level 4 programs is not sufficiently complex to be considered a higher education although they are post-secondary programs. Graduates of generic programs at Level 3 can choose to complete a non-high vocational qualification at level (4) or graduates of vocational programs at level (3) may choose to increase their level of qualifications or more specialization at level (4). In general, programs are designed at this level for direct entry into the labor market. There are general education programs at this level that mainly target students who have completed level (3) but want to increase their chances of joining higher education. Level (4) programs contribute to deepening knowledge and skills for participating students who have completed a program at level (3). Programs at level (4) are often not more advanced than programs at level (3) except that their content is more specialized and detailed than at the level of secondary education programs. These programs are less advanced from higher education level programs.

Classification criteria at level (4):

Associate diploma programs - post-secondary non-higher education - are categorized based on the following criteria:

1. Conditions for entry to level (4):

Full completion of secondary education programs is required at level (3) (certificate of secondary education) allowing access to level (4) programs, but these access requirements are lower than requirements for admission to higher education programs at level (5), (6), (7).

2. The official entry age at level (4):

Participating students enter Level (4) at the age of 18 and this level extends for a period of at least one year.

3. The period of cumulative study at level (4):

The duration of the study for obtaining the level (4) qualification takes one year or at least two semesters or its equivalent in education. Participating students usually enter this level at the age of 18 and Level 4 programs end after 13 years have passed since the beginning of Level 1 or at the age of 19.

4. Number of credit hours (Level 4):

The completion of this level is required to complete (24) credit hours (units) as a minimum and it is related to areas of learning that may be an extension of general education after secondary education or for the purpose of qualification for employment in an administrative or vocational field, which requires limited specialized experience.

5. Program orientation at level (4):

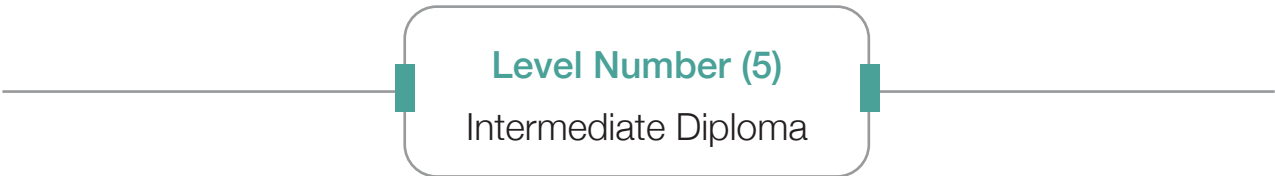
Mostly, programs at level (4) are vocational and final, aiming to prepare students for the labor market. Also, general education programs available at this level. So, Level (4) has two subcategories, either a general associate diploma or a vocational associate diploma.

6. Classification codes for programs at level (4):

Level (4)							
The code of the main level				(4)			
Sub-level name	Entry requirements	Duration of study	Cumulative age	The number of credit hours	Target age group	Accessibility	Sub-level code
General Associate Diploma	Secondary education certificate	One year or at least two semesters	Till the end of 18 years	Completion of at least (24) approved credit hours (units)	18-19 years	Complete with enough success allows for higher levels of access to certain programs at levels of higher education 5 and 6	444
Vocational Associate Diploma							454

7. Other programs covered by level (4):

Level (4) includes programs designed for persons with disabilities if the program provides systematic education programs that are equivalent in terms of the complexity of their content to programs previously classified at level (4) without regard to the age of the participant in the program and this level also includes regular adult education programs (Continuing Education) similar in content to the programs that are classified at the level of education (4), which targets adults and youth who are older than the age specified for the level (4).



Level Number (5) Intermediate Diploma

The main characteristics of level (5):

At the international level, programs at level (5) are defined as short-term higher education programs and at the national level in the Kingdom of Saudi Arabia, as intermediate diploma programs. At this level, programs aim to provide students with technical knowledge, skills, and values on a practical basis and are professionally or generally oriented to prepare students to enter the labor market or enroll in other higher education programs. All academic higher education programs below the level of bachelor's degree are classified at this level. These Programs are often designed to prepare students for the labor market and allow them to access certain programs at level (6) upon successfully completing. Level (5) is considered the lowest level of higher education and the content of programs at this level is more complicated than at level (3), level of secondary education or level (4) level Post-secondary non-higher education "Associate Diploma level" But below the level of programs (6) Bachelor programs or equivalent.

Level 5 classification criteria:

The intermediate diploma level programs are classified according to the following criteria:

1. Conditions for entry to level (5):

Obtaining a secondary education diploma / associate diploma is a condition for joining the program at level (5), where completion of programs at level (3) or (4) with access to higher education is a condition for joining programs at level (5) and the content of the level programs is (5) More complex than programs at levels (3) or (4) and less oriented towards theoretical concepts than programs at level (6).

2. The official entry age at level (5):

Students of this level usually enter at the age of 18 to 19 years and this level extends for a period of at least two years.

3. The period of cumulative study at level (5):

The period of study for obtaining the qualification takes two years or (4) semesters at least with a full-time system or its equivalent in higher education and level (5) programs end after 14 to 15 years have passed since the beginning of level (1) or at the age of 21 years.

4. Number of credit hours for level (5):

Completion of (60) credit hours (units) as a minimum in higher education and are related to decisions related to a specific academic or professional specialization to develop knowledge or skills necessary for employment in the administrative or support professional fields or the acquisition of general and theoretical knowledge foundations that represent The scientific background required to continue and obtain a bachelor's degree.

5. Program orientation at level (5):

There are two sub-levels for this level depending on the orientation of the educational program, either a general intermediate diploma or a vocational intermediate diploma.

6. Classification codes for programs at level (5):

Level (5)							
The code of the main level				(5)			
Sub-level name	Entry requirements	Duration of study	Cumulative age	The number of credit hours	Target age group	Accessibility	Sub-level code
Intermediate Diploma (General)	Secondary education certificate or associate diploma certificate	At least two years or (4) semesters at least, in a full-time system at the Higher Education	till the end of 20 years	Completion of at least (60) credit hours (units) in higher education	18-20 years	Total completion with sufficient success with access to higher levels that allow access to higher education levels 6, the bachelor's level or its equivalent	544
Intermediate Diploma (Vocational)							554

7. Other programs covered by Level (5):

Level (5) includes programs designed for individuals with special needs if the program provides systematic education programs that are equivalent in terms of the complexity of their content to programs previously classified at level (5) regardless of the age of the participant in the program and this level. It also includes regular adult education programs (Continuing Education) similar in content to the programs that are classified at the level of education (5), which targets adults and youth who are older than the age specified for the level (5).

Level Number (6)

Bachelor's degree or equivalent

The main characteristics of the level (6)

Program design at level (6) is aimed to provide participants with academic / technical knowledge and skills that lead to obtaining a first university degree or equivalent qualification. The content of programs at this level is based on a theoretical or technical basis with a view to providing participants academic knowledge and skills. The educational and pedagogical context for presenting programs for this level is within universities and other institutions of higher education. At this level, education often takes the form of lectures given by faculty members who were often qualified at level (8), (7) and programs are not required at this level completing a research project.

- **Criteria for classification at level (6):**

Bachelor's and equivalent programs are categorized at level (6) based on the following criteria:

1. **Conditions for joining programs at level (6):**

There are two subcategories for programs at this level:

First university degree programs at level (6): Bachelor's programs

Obtaining a secondary education certificate is an essential condition for joining first-degree programs at level (6) or completion of level (4) programs - the associate diploma - successfully, with access to higher education. Joining first-degree programs at level (6) is also available after completion of level (5) - intermediate diploma - with sufficient success to reach level (6). Enrollment in first-degree university programs at level (6) is conditional on the degrees obtained at levels 3, 4 and 5. In addition, some higher education institutions may require passing entrance exams to enroll.

- **Second/additional certificate programs at level (6): Higher Diploma programs**

Obtaining the first university degree certificate at level (6) - Bachelor's programs - a condition for joining the second / additional certificate programs at level (6) and after participating in level 6 academic programs with academic orientation, participating students can continue their education at level (7) level Master's degree or equivalent and Level (6) programs do not provide room for direct access to Level (8) Ph.D. or equivalent programs.

2. The cumulative study period for programs at level (6):

University degree programs at first level (6): Bachelor's programs

The first university degree programs at level (6) take a period that varies from one program to another, usually ranging between three years and five years of full-time education or its equivalent at the level of higher education.

Second / additional certificate programs at level (6): Higher Diploma programs

The duration of the study for obtaining the qualification takes at least one academic year or at least two semesters with a full-time system or its equivalent in higher education and the first university degree programs and the second additional certificate for level (6) end after 16 to 17 years have passed, respectively, since the beginning of Level (1) or most likely 22 years of age.

3. Number of credit hours for programs at level (6):

University degree programs at first level (6): Bachelor's programs

To complete the Bachelor's program of 3 to 4 years, it is required to register (120) credit hours (units) as a minimum in higher education, while it is necessary to register at least 150 credit hours (units) accredited to complete the 5-year Bachelor's program.

Second/additional certificate programs at level (6): Higher Diploma programs

Obtaining this qualification requires passing at least (24) credit hours (units) after obtaining the bachelor's degree and the study takes a period of no less than two semesters with a full-time system or its equivalent and programs that end with this qualification aim to provide academic and professional studies Advanced for learners who wish to improve their professional knowledge and skills. Usually, it includes a set of advanced courses related to a specific professional specialization and may require completion of a major or small project. Holders of a higher diploma degree can continue to study directly at the master's level and they may be necessary in certain cases to complete additional theoretical or practical studies.

4. The ranking of level (6) programs in the national structure for degrees and qualifications:

At this level, programs lead to a first university degree - although students may have completed Level (5) qualification before joining a level (6) program. Programs at this level lead to a second or additional degree at level (6) with a duration of one year at minimum (higher diploma), which is academic or qualification oriented to specific professions that offer more specialization than the first university degree, but does not include more complex substantive content. Programs at level (6) do not necessarily require the preparation of objective research.

5. Inaccessibility to programs at level (8):

Level (6) programs do not provide direct access to Ph.D. level (8) or equivalent programs, but after completing a total of academic-oriented level (6) programs, participating students can continue their education at level (7) masters level or equivalent.

6. The official entry age at level (6):

Participating students usually enter this level at the age of 18-19 years and the first university degree programs extend at level (6) over a varying period of 4-5 years depending on the type of program at this level.

7. Program orientation at level (6):

There are three sub-levels for this level depending on the orientation of the educational program, either academic education, professional education or unspecified orientation.

8. Classification codes for programs at level (6):

Level (6)						
The code of the main level		(6)	Level name		Bachelor's degree or equivalent	
Sub-level name	Entry requirements	The name of the degree	Duration of study/ number of approved credits	Cumulative age	Accessibility	Sub-level code
Academic Bachelor's degree in 3-4 years	Secondary education certificate or equivalent	First university degree at level 6	3-4 years Minimum 120 credit hours	till the end of 22 years	It can access to the level 7 master's level or equivalent	645
Academic Bachelor's degree in 5 years			5 years Minimum 150 credit hours			646
Professional Bachelor's degree in 5 years			-----			656
Higher diploma	First undergraduate degree, Bachelor's degree	Second or additional degree after bachelor's degree	At least a year Minimum 24 credit hours	till the end of 23 years	It can access to the level 7 master's level or equivalent	667

9. Other programs covered by Level (6):

Level (6) includes programs designed for individuals with special needs if the program provides systematic education programs equivalent to the complexity of their content to programs previously classified at level (6) regardless of the age of the participant in the program. This level also includes continuing education programs similar in content to those classified at the level of education (6) and target adults and young adults who are older than the age specified for level (6).

Level Number (7)

Masters or equivalent

The main characteristics of the level

Programs at level (7) of the master or equivalent are designed to provide its students with advanced academic skills, technical knowledge and skills that lead to a second university degree. At this level, programs include a major research component and are based on theoretical foundations, but can include experiences. A process that surrounds the latest research and best professional practices, as these programs are offered in the Kingdom by universities and other higher education institutions and the method of education at this level depends on the type of lectures provided by faculty members who are required to be qualified at the level of (8) and programs at this level include the completion of a less advanced research project than those presented at level (8).

At level (7), programs have significantly more sophisticated content than program content at level (6). They are also more specialized, but not all of them can access level (8). Some programs are, for example, medicine, dentistry and pharmacy programs - specializing in Doctor of Pharmacy - require completion of a second or additional certificate at level (7) to access level (8). After completing some other programs as a second certificate at level (7) after the bachelor's programs, individuals can continue their education at the level of (8), education at the level of a doctorate or its equivalent. These programs are offered at teaching and educational context by universities and other institutions of higher education.

Classification criteria at level (7):

Master's programs or equivalent are classified at level (7) based on the following criteria:

1. Conditions for entry to level (7):

Full completion of the programs at level (6) is required. If the programs represent the first long-term certificate to prepare students for obtaining first degree certificates equivalent to a master's degree - such as undergraduate programs 6 years or more -, they require successful completion of programs on level (3) with the possibility of access to higher education. Entry to these programs depends on the study division and the credits that have been achieved at level (6). In addition to that, a preparatory year program may be required and admission exams should be passed successfully.

2. The cumulative study period for programs at level (7):

There are two sub-levels for programs at level (7), according to the length of the program and its ranking in the National Qualifications Structure:

Long-term first-degree programs at level (7):

It takes six years with a full-time system or its equivalent in higher education. It includes specialized studies that take a cumulative equivalent period or more in higher education for the cumulative period for both level (6) and (7) together, Such as medicine programs, dental and pharmacy - Doctor of Pharmacy specialization. These programs cover in terms of breadth and depth a parallel amount of content for level (7) programs despite no research preparation and long-term first-degree university programs end after 18 years have passed since the beginning of level (1) or often at the age of 24 Year.

University second degree programs at level (7):

It is represented in the academic master's degree programs and their equivalent that come in the structure of national qualifications after successful completion of the undergraduate programs or its equivalent. It takes a minimum period of at least two years of full-time education at the level of higher education or it takes a period of study to obtain the qualification (4) At least semesters or equivalent in full or part-time and obtaining a Bachelor's degree is a prerequisite for enrollment in the program.

3. Approved credits for programs at level (7):

Long-term first-degree programs at level (7):

Long-term first-degree programs at level (7) - Bachelor's degree 6 years or more - should achieve (180) credit hours (units) accredited in higher education as a minimum.

University second degree programs at level (7):

At the level of the second university degree programs at level (7) that follows undergraduate programs - the level of academic masters qualification programs and their equivalent - this qualification requires passing at least (24) accredited hours (units) after obtaining a bachelor's degree from graduate courses in programs that adopt the method of studying courses, in addition to presenting a scientific thesis whose accredited units are not less than (6) units or passing at least (42) accredited hours (units) after obtaining a bachelor's degree from the graduate courses in programs that pursue a study courses of a professional nature, including a project he graduated from research and his accredited units must not be less than (3) units. It takes a minimum of four semesters for a full-time course or its equivalent after obtaining a bachelor's degree.

4. The ranking of programs at level 7 in the national certificate and qualifications structure:

Generally, the programs for this level are intended to prepare the participating students to obtain a second or additional certificate, after obtaining a first certificate from the programs at level (6) or (7). Academic programs that take a period of (six years) at least to prepare a first degree or a first qualification at level (7) are classified as specialized studies that take a cumulative period in higher education equivalent or more, for programs at the master's level - in terms of breadth and depth - and include a parallel amount of content despite not preparing a thesis or research, so it is classified at this level, such as : Programs of medicine, dentistry and pharmacy (Doctor of Pharmacy specialization) and this case a certificate or qualification acquired does not allow direct access to the level (8) Ph.D. level or equivalent and include programs at the level of (7) as well as a program for a second university degree after another program had already been classified at the level of (6) or (7).

5. Direct access to Level (8) programs:

Higher education programs that allow direct access to level (8) are classified at level (7), but not all level (7) programs offer direct access to level (8), especially first-year, long-term university degree programs at level (7) Which includes: programs of medicine, dentistry and pharmacy (Doctor of Pharmacy specialization) allowing access to second university degree programs, at level (7).

6. The official entry age at level (7):

Participating students usually enter this level at the age of 22.

7. Program orientation at level (7):

At the national level, according to program orientation, at level (7) there is only one sub-category for this level, which is an academic orientation only.

8. Classification codes for programs at level (7):

Level (7)						
The code of the main level			(7)	Level name	Master or equivalent	
Sub levels	Entry requirements	Duration of study	Duration of study/ number of approved credits	Cumulative age	Accessibility	Sub-level code
Bachelor's programs 6 years / first long-term degree at level (7)	General Secondary Education Certificate	6 years and over	6 years Passing (180) credit hours (units) in higher education as a minimum.	till the end of 24 years	Access to a second university degree at level (7)	746
Master / second university degree at (7) level after bachelor's degree	Bachelor's degree	Two years	At least two years Research System: Passing at least (24) credit hours (units) after obtaining a bachelor's degree from graduate courses in addition to submitting a scientific dissertation whose approved units are not less than (6) units, OR Course system: Passing a minimum of (42) credit hours (units), after obtaining a bachelor's degree from graduate courses in programs that pursue study of courses of a professional nature, provided that among them is a research graduation project whose approved units are not less than (3)	till the end of 24 years	Access to the level (8) level	747

Level Number (8)

PhD or equivalent

Main characteristics

Level (8) Ph.D. programs or their equivalents are mainly designed to obtain an advanced research qualification. Programs for this level should provide advanced studies and innovative research, which are often offered by research-oriented higher education institutions, such as universities. Ph.D. programs are available in academic education fields. The study ends at level (8) by submitting a thesis or equivalent of the written research eligible for publication, which constitutes a contribution to enriching the knowledge of the specialized field of study and these programs are mainly based on research and not on the study of classroom courses. However, some education systems include Level (8) programs have very limited classroom courses and registered students to obtain a Ph.D. are engaged in research work largely independently and in varying degrees of scientific oversight. Programs that are classified at level (8) have different names, such as Ph. D program, Doctor of Philosophy, Doctor of Arts, Doctor of Science, Doctor of Law ... and other terms. Programs with the name “Ph.D.” are classified under level (8) only if they meet the main characteristics mentioned above and the following criteria:

Classification criteria at level (8):

Ph.D. programs and equivalent are classified at level (8) based on the following criteria:

1. Submitting a written research:

The successful completion of the Level (8) program requires the submission of a thesis or equivalent of publishable research, which is the outcome of innovative research and represents an important contribution to enriching knowledge in the specialized field of study.

2. Entry Level Requirements (8)

Entry into programs at level (8) requires successful completion of specific programs at level (7).

3. The cumulative study duration of the program at level (8):

The level (8) requires at least three years of full-time study, which makes the minimum total cumulative study period at the higher education level at least 9 years of full-time education or the study period to obtain the qualification takes (6) semesters at least or its equivalent in full-time system.

4. Number of credit hours for programs at level (8):

Obtaining this qualification requires passing at least (30) hours (units) accredited from advanced courses after obtaining a master's degree, in addition to submitting a scientific thesis. The study to obtain this qualification usually takes at least 6 semesters with a full-time system or equivalent. There is another system for doctoral programs in some educational institutions, in which the focus is on independent research in a specific field of study, with a minimum of (12) credit hours (units) accredited for directed studies, seminars or seminars, depending on the learner's scientific composition and specialization.

5. The official entry age at level (8):

Participating students usually enter this level at the age of 24 years.

6. The program's orientation at level (8):

There is only one category for this level according to the orientation of the educational program, which is an academic orientation only.

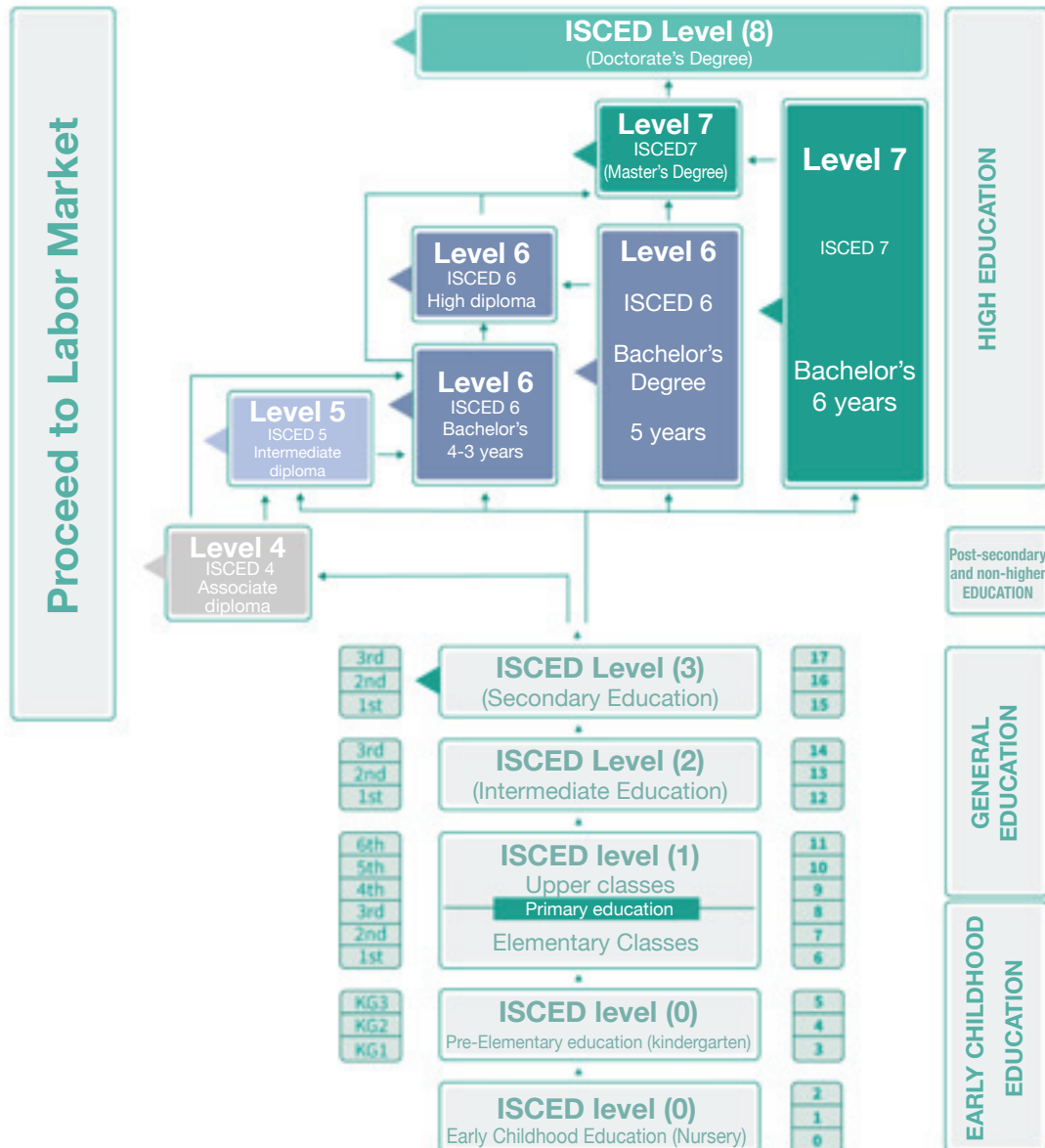
7. Classification codes for programs at level (8):

Level (8)					
The code of the main level		(8)	Level name	PhD	
Entry requirements	Duration of study	The number of credit hours		Cumulative age	Sub-level code
Master's degree	3 years (6 semesters) at least or its equivalent by the full-time system	Research System: Passing a minimum of (12) hours (units) accredited from the academic courses devoted to directed studies, seminars or research sessions, according to the learner's scientific formation, specialization and carrying out independent research in a specific field of study OR Course system: Passing a minimum of (30) hours (units) accredited of advanced courses, after obtaining a master's degree, in addition to providing a thesis.		Till the end of 27 years	844

Education Levels in The Standard Saudi Classification of Educational Levels and specializations

Level Code	Educational Level	Educational Sub-level	Sub-level Code
0	early childhood education	Early childhood development	010
0	early childhood education	Pre-primary education	020
0	early childhood education	Elementary without completing the level	030
1	Primary Education	Primary Education	100
2	Intermediate Education	Intermediate education (general)	244
2	Intermediate Education	Intermediate education (vocational)	254
3	Secondary Education	General secondary education	344
3	Secondary Education	Vocational secondary education	354
4	Associate Diploma	General Associate Diploma	444
4	Associate Diploma	Vocational Associate Diploma	454
5	Intermediate Diploma	Intermediate Diploma (General)	544
5	Intermediate Diploma	Intermediate Diploma (Vocational)	554
6	Bachelor or equivalent	Academic Bachelor's degree in 3-4 years	645
6	Bachelor or equivalent	Academic Bachelor's degree in 5 years	646
6	Bachelor or equivalent	Professional Bachelor's degree in 5 years	656
6	Bachelor or equivalent	Higher diploma	667
7	Master or equivalent	Bachelor's programs 6 years / first long-term degree at level (7)	746
7	Master or equivalent	Master / second university degree at (7) level after bachelor's degree	747
8	Ph.D.	Ph.D.	844

Paths of transition and progression through educational levels in Saudi Educational System



The following table summarizes the standards and codes of educational levels in the Saudi Standard Classification For Educational Levels

Level code	Education level	Education Sub-level	Entry requirements	Target age group	Cumulative age	
0	Early Childhood Education	Early childhood development (Nursery)	All children below the age of 3 years	All children up to less than 3 years	3 years	
		Pre-primary education (Kindergarten)	Formal age not less than 3 years	All children from 3 to up to less than 6	5 years	
		elementary without completing the level (Elementary Classes)	Formal age not less than 6 years	First three classes of primary education	8 years	
1	Primary Education	Primary Education	Formal age not less than 6 years	6-11 years	11 years	
2	Intermediate Education	Intermediate Education (General)	Primary education certificate	12-14 years	14 years	
		Intermediate Education (Vocational)				
3	Secondary Education	Secondary Education (General)	Intermediate education certificate	15-17 years	17 years	
		Secondary Education (Vocational)				
4	Associate Diploma	Associate Diploma (General)	Secondary education certificate	18-19 years	19 years	
		Associate Diploma (Vocational)				
5	Intermediate Diploma	Intermediate Diploma (General)	Secondary education or Associate Diploma certificate	18-20 years	20 years	
		Intermediate Diploma (Vocational)				

	The studying Duration	Number of accredited Hours	Accessibility	Sub-level code
	At least 100 days of educational activities per year	The level takes at least equal to two hours per day and for 100 days of educational activities per year.	-----	010
	At least 100 days of educational activities per year	The level takes at least equal to two hours per day and for 100 days of educational activities per year.	-----	020
	3 years with a full-time system of study in general education	-----	-----	030
	At least 6 years with a full-time system of study in General education.	-----	Allows access to level (2) Intermediate education	100
	At least 3 years with a full-time system of study in general education	-----	Allows access to level (3) Secondary education	244
	At least 3 years with a full-time system of study in general education.	-----	successful completion sufficient to access higher levels, (level 4) or higher education (levels 5, 6 and 7)	254
	At least 3 years with a full-time system of study in general education.	-----	successful completion sufficient to access higher levels, (level 4) or higher education (levels 5, 6 and 7)	344
	At least 3 years with a full-time system of study in general education.	-----	successful completion sufficient to access higher levels, (level 4) or higher education (levels 5, 6 and 7)	354
	One year or at least two semesters with a full-time system or its equivalent of studying in general education.	Completion of at least (24) hours (unit) and it is associated with areas of learning as an extension of the post-secondary general education, or for qualification for employment in an administrative or professional field, requires limited specialized experience	Complete with enough success allows accessing higher levels (levels of higher education 5 and 6)	444
	One year or at least two semesters with a full-time system or its equivalent of studying in general education.	Completion of at least (24) hours (unit) and it is associated with areas of learning as an extension of the post-secondary general education, or for qualification for employment in an administrative or professional field, requires limited specialized experience	Complete with enough success allows accessing higher levels (levels of higher education 5 and 6)	454
	At least two years or (4) semesters at least, in a Full-time system at the Higher Education	Completion of at least (60) accredited hours (unit) in higher education. Relevant Courses are related to a specific academic or professional specialization to develop the necessary knowledge, or skills for employment in administrative, or supportive professional fields.	Allows access to level (6) Bachelor's level or its equivalent	544
	At least two years or (4) semesters at least, in a Full-time system at the Higher Education	Completion of at least (60) accredited hours (unit) in higher education. Relevant Courses are related to a specific academic or professional specialization to develop the necessary knowledge, or skills for employment in administrative, or supportive professional fields.	Allows access to level (6) Bachelor's level or its equivalent	554

Level code	Education level	Secondary education level	Entry requirements	Target age group	Cumulative age	
6	bachelor's or its equivalent	Academic Bachelor's degree in 3-4 years (First university degree at level 6)	General secondary education certificate or its equivalent	18-23 years	22 years	
		Academic Bachelor's degree in 5 years (First university degree at level 6)			23 years	
		Professional Bachelor's degree in 5 years (First university degree at level 6)				
		High Diploma (Additional degree or second degree after bachelor)	First undergraduate degree, Bachelor's degree	22-24 years	24 years	
7	Master's or its equivalent	Bachelor's degree 6 years first long-term degree at level (7)	General secondary education certificate	18-24 years	24 years	
		Master Degree First certificate at level (7) after a bachelor's degree	Bachelor's degree	22-24 years	24 years	
8	Doctorate's degree or its equivalent	Doctorate	Master's degree	25 years	>27 years	

	The studying Duration	Number of accredited Hours	Accessibility	Sub-level code
	Three to four years	At least 120 accredited hours	Allows the access to level 7(master's degree or equivalent) Final program doesn't allow access to higher level	645
	5 years	At least 150 accredited hours		646
				656
	A least one year	At least 24 accredited hours	Allows the access to level 7 (master's degree or equivalent)	667
	6 years	At least 180 accredited hours	Allows access to a second or additional certificate at (level 7)	746
	At least two years or four semesters or its equivalent with a full-time system of study in higher education.	Search system: Passing a minimum of (42) accredited hours (units), after obtaining a bachelor's degree from graduate courses in programs that pursue the study of research and providing a thesis whose approved units are not less than 6 units OR Course system: Passing a minimum of (42) accredited hours (units) of graduate programs after obtaining a bachelor's degree. These programs pursue a study of professional nature and associated with a graduate project approved unit are not less than 3 units.	Allows access to higher level	747
	At least three years or six semesters or its equivalent with a full-time system	Research System: Passing a minimum of (12) hours (units) accredited from the academic courses devoted to directed studies, seminars or research sessions, according to the learner's scientific formation, specialization and carrying out independent research in a specific field of study OR Course System: Passing a minimum of (30) hours (units) accredited of advanced courses, after obtaining a master's degree, in addition to providing a thesis	-----	844



Chapter 3

Classification of educational specializations

- Introduction
- Educational Specialization Classification Unit
- Mechanism of coding educational specializations
- Standards for classifying educational specializations
- The general framework for classification of educational specializations

Field (00): Generic Programs and Qualifications

Field (01): Education

Field (02): Arts and Humanities

Field (03): Social Sciences, Journalism, Information and Media

Field (04): Business, Administration and Law

Field (05): Natural Sciences, Mathematics and Statistics

Field (06): Information and Communications Technology

Field (07): Engineering, Manufacturing and Construction

Field (08): Agriculture, forestry, fisheries and veterinary

Field (09): Health and Welfare

Field (10): Services

Introduction

Developing a standard national classification for educational specialties consistent with international standards is a necessary step towards collecting education and training data that are comparable to national and international standards. These data are of great importance in general development and planning in various country sectors, especially for the education and training sectors, and workforce.

The Saudi Standard Classification for Educational Specializations has been prepared based on the urgent need to tabulate and coordinate educational statistics and link them to workforce and employment statistics and population and economic statistics in the Kingdom. It will facilitate comparison operations of development indicators in the Kingdom with other groups of countries. In addition to developing educational planning systems and workforce and employment planning in the Kingdom. When preparing this classification, it was taken in the account to be consistent with the levels, programs, educational fields, and specializations in the international standardized classification for education (ISCED-F 2013).

This classification is characterized by flexibility, comprehensiveness and reliability. Besides, it expandable by the possibility of Add / delete / update fields and specializations that suit the development requirements in the Kingdom, which may appear in the future.

Educational Specialization Classification Unit

The Saudi Standard Classification of Educational Levels and Specializations relied in its classification of educational specialties on the names of educational specializations, their academic content approved by the education and training sectors in the Kingdom, namely: the Ministry of Education, the General Organization for Technical and Vocational Training, universities and the military sectors as a standard basis unit to classify educational specializations, defining educational specialization as “a homogeneous group or a series of educational activities or communications designed and organized to achieve learning objectives, which is prescribed in a specific area of specialization related to the educational path of the specialization from which a student graduates from and ends with obtaining a specific recognized qualification”. When a specialization listed in the classification, it is clearly described according to the following elements:

1. Name and code of specialization:

The specialization is given a specific code, taking into account the broad, narrow and detailed field to which this specialization belongs and each specialization carries a fixed code consisting of six digits.

2. Description of specialization:

It contains a brief description of the specialization, defining and clarifying its knowledge and skills framework.

3. Specializations classified under the same name:

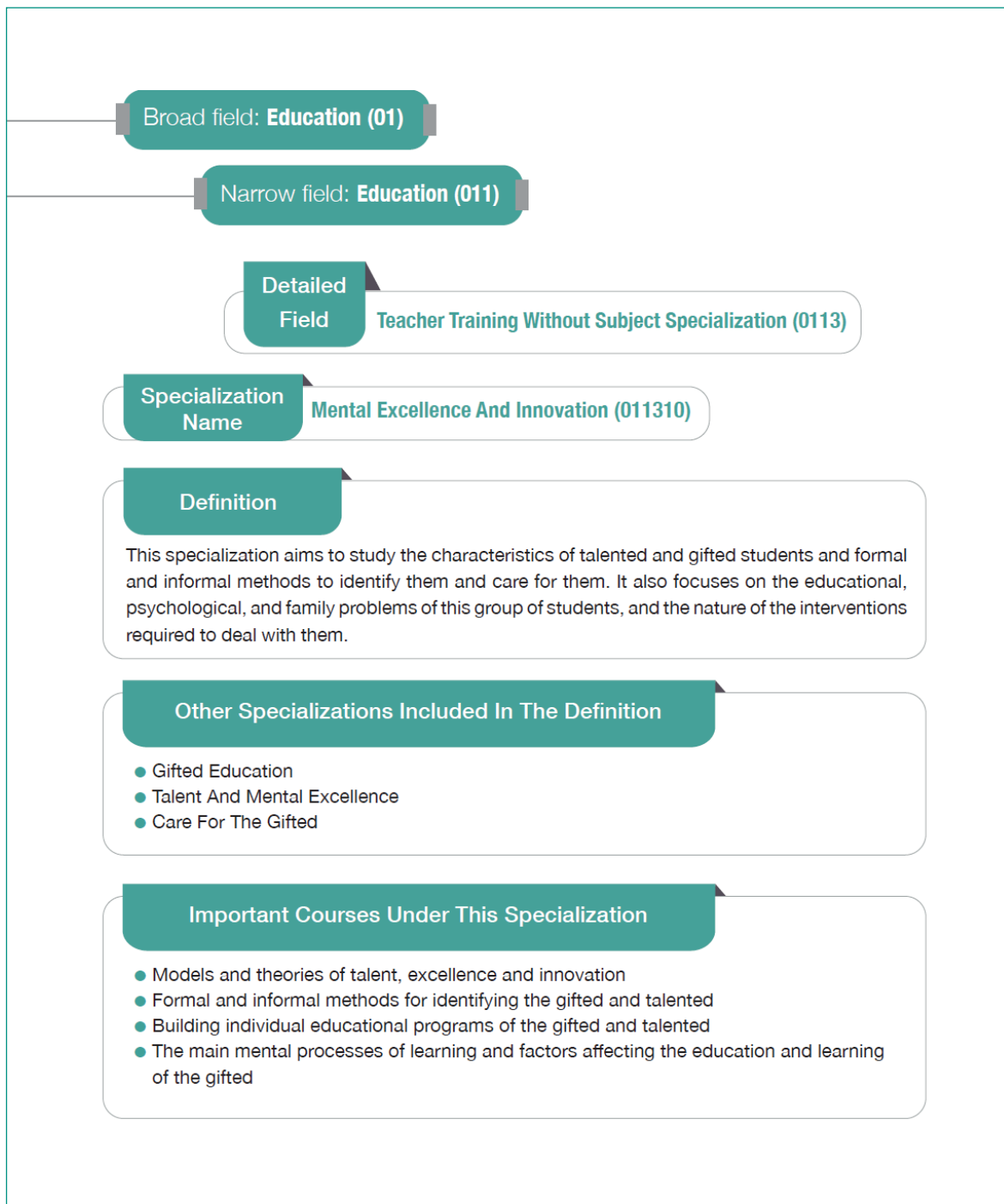
This section contains standalone specializations, but it is similar to the specialization in most of the courses offered, so it was included in the classification as “Included Specialization”. On the other hand, this section provides guidelines to help classify new similar specializations in the future. Each listed specialization has a fixed eight-digit code.

4. The most important courses offered in this specialization:

In this section, examples of the most important courses offered in this specialization will be included to clarify it further and help identify the classification of new specializations similar to it in the future.

Only four to six courses are listed as only examples that do not include the entire courses of the specialization. They were identified by analyzing and reviewing the academic and the training plans for the specialties and asking experts and academics about them.

In the following illustration, an example will describe a specialization card, as mentioned in the classification:



Mechanism of coding educational specializations

The classification has followed specific methodological criteria in classifying educational specializations and coding them in the first three levels with the International Standard Classification of Education (ISCED - F 2013) for use compared to the international level as shown in the following table:

Field name	Number of fields	Coding system
Broad field	11	It uses a two-digit coding system from 00 to 10
Narrow field	29	It branches from broad fields and using a three-digit coding system, so one number is added to the right of the broad field code
Detailed Field	82	It branches from arrow fields and using a four-digit coding system, so one number is added to the right of the narrow field code
Specialization	520	It branches from the detailed fields and uses a six-digit coding system, so that two numbers are added to the right of the detailed field code

The first level: the broad field

The Saudi Standard Classification of Educational Specializations adopted the same number and names and the coding for the broad field approved in the International Standard Classification of Education (ISCED - F 2013), which includes ten fields, in addition to an additional field called (Generic Programs and Qualifications), as shown in the following table:

broad field code	Broad field name
00	Generic Programs and Qualifications
01	Education
02	Arts and Humanities
03	Social Sciences, Journalism, Information and Media
04	Business, Administration and Law
05	Natural Sciences, Mathematics and Statistics
06	Information and Communications Technology
07	Engineering, Manufacturing and Construction
08	Agriculture, forestry, fisheries and veterinary
09	Health and Welfare
10	Services

● Generic Programs and Qualifications field (00):

Within this field, non-specialized general preparation programs are included in the general education stages, which start from early childhood education to the specializations offered at the secondary level and earlier, as well as preparatory programs and adult education for reading and writing skills and the arithmetic.

● Other fields (01-10):

In each of these fields, specializations that are offered in institutions of higher education, technical and vocational education after the secondary stage are listed here.

The second level of classification: narrow field¹

Each broad field is divided into a group of narrow fields, which bear a three-digit code, shown in the following table:

Broad field		Narrow field	
Field code	Field name	Field code	Field name
00	Generic Programs And Qualifications	001	Basic programs and qualifications
		002	Literacy and numeracy
		003	Personal skills and development
01	Education	011	Education
		018	Inter-disciplinary programs and qualifications involving education
02	Arts and Humanities	021	Arts
		022	Humanities (except languages)
		023	Languages
		028	Inter-disciplinary programs and qualifications involving arts and humanities
03	Social sciences, journalism and information	031	Social and behavioral sciences
		032	Journalism and information
		038	Inter-disciplinary programs and qualifications involving social sciences, journalism and information
04	Business, administration and law	041	Business and administration
		042	Law
		048	Inter-disciplinary programs and qualifications involving business, administration and law

¹Includes a group of inter-disciplinary programs and qualifications.

Broad field		Narrow field	
Field code	Field name	Field code	Field name
05	Natural sciences, mathematics and statistics	051	Biological and related sciences
		052	Environment
		053	Physical sciences
		058	Inter-disciplinary programs and qualifications involving natural sciences, mathematics and statistics
06	Information and Communication Technology	061	Information and Communication Technologies (ICTs)
		068	Inter-disciplinary programs and qualifications involving Information and Communication Technologies (ICTs)
07	Engineering, manufacturing and construction	071	Engineering and engineering trades
		072	Manufacturing and processing
		073	Architecture and construction
		078	Inter-disciplinary programs and qualifications involving engineering, manufacturing and construction
08	Agriculture, forestry, fisheries and veterinary	081	Agriculture
		082	Forestry
		083	Fisheries
		084	Veterinary
		088	Inter-disciplinary programs and qualifications involving agriculture, forestry, fisheries and veterinary
09	Health and Welfare	091	Health
		092	Welfare
		098	Inter-disciplinary programs and qualifications involving health and welfare
10	Services	101	Personal services
		102	Hygiene and occupational health services
		103	Security services
		104	Transport services
		108	Inter-disciplinary programs and qualifications involving services

The third level of classification: the detailed field

Each narrow field is divided into “detailed fields” bearing a four-digit code. This classification field is used mainly at the level of university education, educational programs and specializations and qualifications and vocational training at the secondary education level, and the non-university post-secondary level. It is also used for general education programs and qualifications that involve specialization in one subject. In contrast, general education programs and qualifications that cover a broad range of subjects with little specialization, or without specialization in a field or specific field are usually classified in the broad field (Generic Programs and Qualifications) with the code (00).

Fourth level of classification: the specialization

At this level, it includes names of the main educational specializations that are presented in the education and training sector in the Kingdom. They are categorized according to the content of the main subjects (actual practical and theoretical knowledge) learned through specialization. Each main specialization holds a six-digit code.

There are exceptional cases in classification that certain special codes are used to encode and classify being additional codes that are not included in the classification structure, such as “ Not Further Defined Programs” or “Not Elsewhere Classified Programs” and can be used for data processing only and the following table shows a description for these codes:

Code	Description	Use
0	Not Further Defined Programs	There is no additional information to what is known at a higher level of classification
8	Inter-disciplinary Programs and Qualifications	Programs or qualifications without a dominant field of detail
9	Not Elsewhere Classified Programs	The detailed field is known, but not included in the classification

The codes shown in the previous table are used in the following special cases:

- When we classify a specialization that we do not have sufficient information about it other than the broad field or the narrow field, it is classified under (Not Further Defined programs). The number “01” and beyond is added after the broad field or narrow field code that we know. For example: a specialization (engineering) without additional information about it, it will be classified within the detailed field (Engineering, manufacturing and construction Not Further Defined), under the code (0700) and specialization is coded with the number (01) to become (070001).
- When the detailed field of specialization is well known and described adequately, but it is not explicitly mentioned in the classification, in this case, the term (Not Elsewhere Classified Programs) is used and it is coded by adding the number (9) as a last number on the detailed field. One of the famous examples here is the specialization (Industrial and Systems Engineering), despite the clarity of specialization, however it cannot be classified within a specific detailed field, so it was classified under “ Other Programs in Engineering and Engineering Trades Not Elsewhere Classified” under the code (0719).
- When the field of specialization is not known, the code (9999) can be used. When it is not possible to define a narrow field or a detailed field, the codes (XX9) or (XX99) are used, respectively.
- In the case of specializations, which cover more than one detailed field (even if they are belong to different narrow or broad fields) without any of them dominating the other, the specialization is classified within the category (Inter-disciplinary) in the broad field belongs to the first name mentioned in the specialization's name. It will be classified under the detailed area (Inter-Disciplinary Programs and Qualifications) with the code (XX88). The specialty is coded with the number (01) that is to become (XX8801).

Standards for classifying educational specializations

When a specialization is included in this classification, it shall be ensured that it is subject to the following general determinants:

- The specialization seeks to provide the learner with a set of knowledge and skills that enable him to do specific work or move to a higher level of educational levels in the same field or in another related field to complete study and learning.

- Achieving the minimum standards for registration at the educational level to which the specialization is linked and completing it as stipulated in the level classification guide, in terms of duration of the study, number of credit hours, conditions for joining the level.
- A test or a set of tests based on the curriculum presented during the study period is offered to verify the acquisition of knowledge and skills.
- Upon successfully completion of the specialization, the student will be granted a certificate recognized by the relevant national authorities and authorities, indicating this.
- When describing specialization, knowledge and skills provided in its general framework are stated regardless of the educational level in which this specialization will be presented. In studying marketing specialization - for example - the student gets a set of converging knowledge and skills regardless of whether they were presented at the level of diploma or at a higher educational level (Bachelor's or Postgraduate) and the difference here in the educational levels will be reflected in the level of complexity in which this knowledge and skills are discussed.

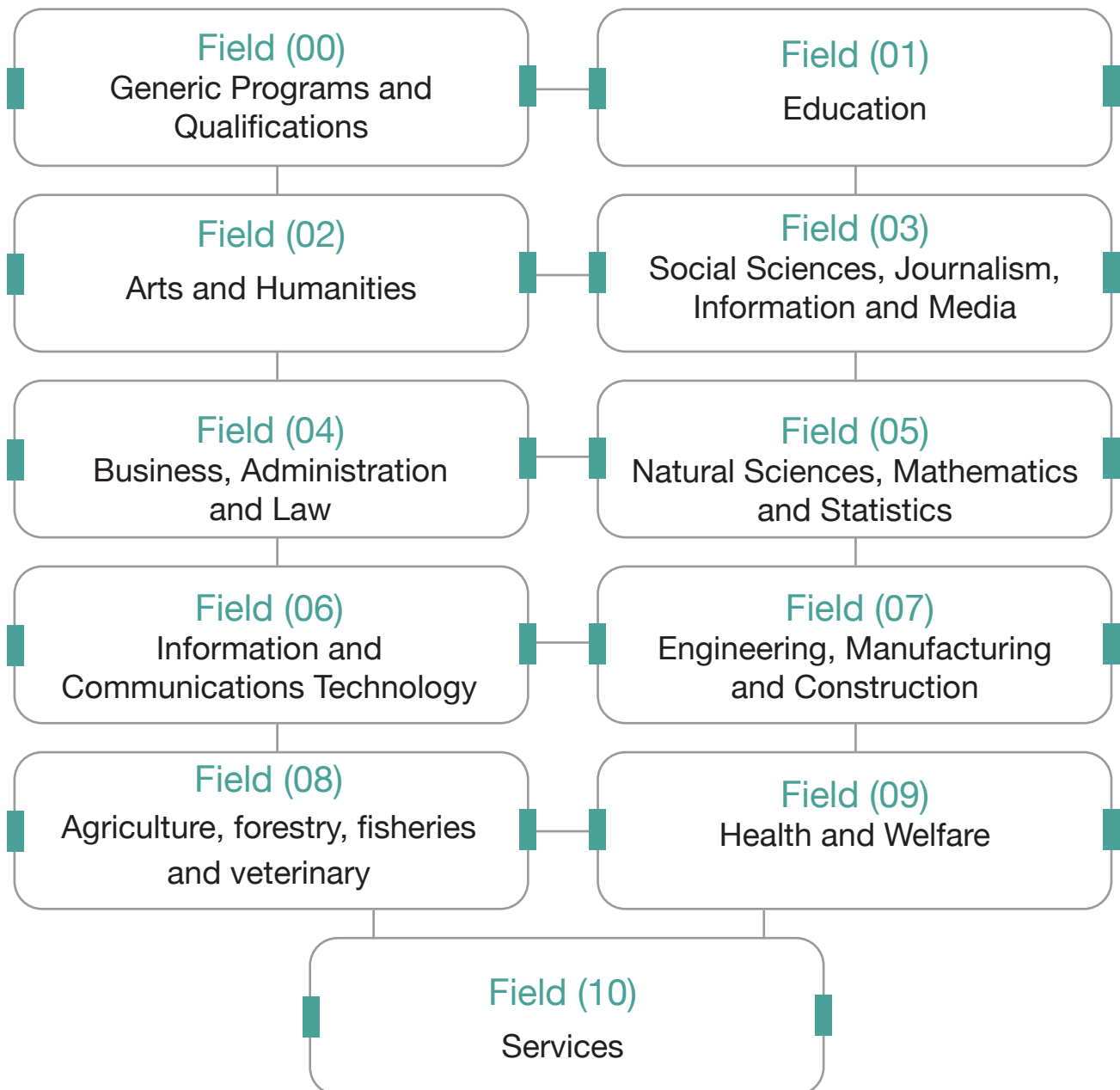
The main set of criteria that have been relied upon to classify specializations in the Saudi Standard Classification is determined in the following points:

- The educational specializations are classified according to the set of theoretical knowledge and practical skills that the specialization seeks to provide to the students and based on the similarity between the specializations in the content will be grouped together so that they are classified into three categories: broad, narrow and detailed fields.
- Specializations that are similar in more than (50%) of the courses or educational classes will be included within the same detailed field.
- Dependence in classification on the number of credit hours for each specialization whenever available.
- Reviewing the study or training plan when classifying specializations with different names but indicating one specialization and when there are similarities in most of the courses offered in these specializations (considering the credit hours allocated to each course). The name of the specialization will be selected as the most commonly used in the educational and training institutions in Saudi Arabia and then, the rest of the specializations will be included as “included Specializations”.

- Use the criterion (dominant main specialization) in specializations that refer to a combined study of more than one specialization at the same time and this means classifying specialization within (Inter-disciplinary) category under the broad field that has more hours of study according to the study plan approved in formal educational institutions.
- Specializations focusing on teachers training are excluded from the rule of “dominant specialization”. However, the dominant specialization is usually a specialized subject as in (educational chemistry major), where the academic hours for chemical courses dominate the specialization, but it is classified within the detailed field “ Teacher Training with Subject Specialization”.
- Specializations that refer to a combined study of more than one specialization at the same time and when the information is not sufficient to determine the relative study hours for each specialization or the scheduled time for learning, the specialization should be classified in the detailed field (Not Further Defined Programs) that is consistent with the first name mentioned in the specialization title.
- Classifying of Language specialization within the detailed field (Language Acquisition) (0231) or (Literature and Linguistics) (0232), based on the scientific content presented in the specialization and its aim. Linguistic specializations that seek to acquire a language that is different from the language spoken by this student are classified within the detailed field (Language Acquisition) (0231). Language specializations that target native language speakers or fluent speakers are classified within the detailed field (Literature and Linguistics) (0232).
- Specializations directed towards one specific professional field, which is also composed of sub-topics from other fields that are not classified within (inter-disciplinary programs and qualifications), but rather should be classified according to the specific professional field. For example, (mechanical maintenance) program in which hours are allocated for sub-topics (language, mathematics, natural sciences, etc.) exceed the learning time for the specialized subject. However, this program should be classified in the detailed field “Mechanics and metal trades” and not as an Inter-disciplinary program.

The general framework for classification of educational specializations

Below is a detailed description of the general framework of the structure of classification of educational specializations (broad field - narrow field - detailed field - definition of specialization – included specializations - specialization courses - coding), which was tabulated in light of the broad field groups of the Saudi Standard Classification of Educational Levels and Specializations:







Field (00)

Generic Programs And Qualifications

Basic Programs And Qualifications 001

Literacy And Numeracy 002

Personal Skills And Development 003



Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Generic Programs And Qualifications Not Further Defined (000)**

Detailed
Field

Generic Programs And Qualifications Not Further Defined (0000)

Specialization
Name

Generic Programs And Qualifications Not Further Defined (000000)

Definition

The code “Generic Programs And Qualifications Not Further Defined” is used for any specialization or program within the broad field “Generic Programs And Qualifications” and has no additional information that help classify it in a specified narrow or detailed field.

Other Specializations Included In The Definition

- The Preparatory Year
- Preparatory Year - Science Programs
- Preparatory Year- Literature Programs
- Scientific Programs

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Early Childhood Education (Nursery) (001101)

Definition

Programs of a formal educational nature include educational content intended for young children in the age group from zero to two years old. Educational programs for early childhood development are characterized by a learning environment that stimulates visual and linguistic learning and encourages self-expression with a focus on language acquisition and uses in communication. There are opportunities to learn with active play so that children can practice their coordination and movement skills under supervision and interacting with a group of qualified educators.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Early Childhood Education (Kindergarten) (001102)

Definition

Programs have systematic educational nature, including educational content intended for children from the age of 3 years until entry into primary education. These programs are characterized by developing children's ability to use language and their social skills, developing logical and mental skills, introducing them to the alphabet and numeracy, and encouraging them to explore their world and their surrounding environment. It is possible to use kinetic activities, and educational games as educational opportunities to enhance social interaction with peers, develop skills, autonomy and prepare to enter school.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Primary Education (001103)

Definition

Primary education programs aim to provide the students with the essential skills in the areas of reading, writing and arithmetic, personal and social development for children, preparation for the intermediate education level and focuses on learning at a general level with a small degree of specialization if any. Educational activities, especially in the first grades, are organized into units of study, and often, one head teacher holds the learning process, although the class can have more than one teacher, especially for some subjects or units of study. After completing primary education programs, the student can continue their education in intermediate education.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Intermediate Education (General) (001104)

Definition

Intermediate education programs are designed based on the learning outcomes gained from primary education, which is the learning infrastructure. At this level, programs focus on a curriculum that is more oriented towards the subjects, with the introduction of theoretical concepts across a broad range of subjects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

**Detailed
Field**

Basic Programs And Qualifications (0011)

**Specialization
Name**

Intermediate Education (Vocational) (001105)

Definition

Intermediate education programs are designed based on the learning outcomes gained from primary education, which is the learning infrastructure. Programs at this level focus on a curriculum that is more oriented towards the subjects, with introducing vocational concepts across a wide range of vocational subjects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Secondary Education (General) (001106)

Definition

General secondary education programs aim to complete general pre-university education programs in preparation for enrollment in higher education programs and/or provide participants with work-related skills. The programs offer participating students a more specialized and in-depth education in specific subjects or areas, and programs are more differentiated, with a range of options available. The courses available are more specialized and in-depth than the programs in intermediate education, and the teachers are more qualified, competent and specialized in the subjects or areas of specialization that they teach.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Secondary Education (Vocational) (001107)

Definition

Vocational secondary education programs aim to complete pre-university vocational education programs in preparation for enrollment in technical education programs and/or provide participants with work-related skills. The programs offer participating students more specialized and in-depth training in specific areas and programs are more diverse, with a range of options and paths available more specialized and in-depth than programs in intermediate education. Teachers are more qualified, competent, and specialized in the vocational subjects or areas of specialization they are studying.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Audio And Video Devices (001108)

Definition

This specialization aims to provide the student with the necessary skills to maintain audio and video equipment malfunctions. This specialization deals with the skills of dismantling and assembling screens of all kinds, using measuring devices, welding caustic and other hand tools. It also includes the study of electronic circuit design, methods of tracking electrical current through measuring instruments, and identifying and repairing malfunctions. In addition, it seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

**Detailed
Field**

Basic Programs And Qualifications (0011)

**Specialization
Name**

Photography (001109)

Definition

This specialization aims to provide the student with the basics of photography to work on media, commercial, television photography, studio photography, nature photography, motion photography and image processing. It also addresses the principles of media production, the art of photography and television and digital printing. It also deals with television production, design and handling of imaging products, and the use of modern technologies in this field. Besides, it trains the student on managerial skills to develop his capabilities to establish and manage his own project.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Photographic Photography (001110)

Definition

This specialization aims to provide the student with the skills to work on nature photography, photo and commercial photography, studio photography, motion capture, digital printing. It also deals with teaching the student about photographic products and modern technologies in this field, and training him on management skills to develop his capabilities to establish and manage his own project.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Design And Printing Layout (001111)

Definition

This specialization aims to provide the student with the skills to work on graphic design and advertising and word processing on Mac devices, press release, print processing, and montage. It also deals with training the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Offset Printing (001112)

Definition

This specialization aims to provide the student with the skills to work in the field of offset and digital printing by operating the one-color, two-color, four-color printing machine and more.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Automatic Printing (001113)

Definition

This specialization aims to provide the student with the skills to work in the field of design, print processing, offset printing, digital printing, binding, thermal printing and laser engraving.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Binding (001114)

Definition

This specialization aims to provide the student with the skills to do binding works by using the shearing machine, folding machine, binding machines and fine binding. It also covers the principles of maintenance and safety rules.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

**Detailed
Field**

Basic Programs And Qualifications (0011)

**Specialization
Name**

Office Devices And Machines (001115)

Definition

This specialization aims to provide the student with the skills to carry out the maintenance of thermal fax, laser fax, ink, and laser computer printers and photocopiers (analog, digital and color). It is also concerned with developing skills of connecting copiers and laser printers to the computer, and programming and configuring them.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Operating Computer Numerical Control (Cnc) Machines (001116)

Definition

This specialization aims to provide the student with the necessary skills to cut and fabricate metals through traditional turning and milling machines and to perform measurements and engineering drawing using a computer through the AutoCAD and SolidWorks programs. It also addresses operating CNC and working on a computer-aided design and manufacturing program (CAD / CAM). Besides, it trains the student on the principles and practices of occupational safety within the industrial workshops, in addition to training them on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Operating Production Machines (001117)

Definition

This specialization addresses the basic and specialized skills in measurements, engineering drawing and occupational safety within industrial workshops and technical computing with computer skills knowledge. It also deals with metallurgy and its properties, metal cutting and operation by traditional turning and milling machines. It also seeks to train students in computer drawing skills through the AutoCAD and SolidWorks programs and operate internal maintenance and renewal engines for combustion engines such as cylinder turning machines, heads scanning machines, utility column turning machines, cylinder smoothing machines, flawless lathe and rotary weight. In addition, this is to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Structural Electricity (001118)

Definition

This specialization addresses basics and principles of extensions and work of electrical facilities in the stages before and after the construction of concrete and in the final finishing stages, where the communications, alarm and control systems are installed. It also seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

**Detailed
Field**

Basic Programs And Qualifications (0011)

**Specialization
Name**

Industrial Electricity (001119)

Definition

This specialization deals with the principles of abrading, the principles of electricity, professional technology, home installations, electrical measurements, electrical protection, electrical technical drawing, electrical panels, maintenance of electrical appliances and winding electrical machines.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Electric Elevators (001120)

Definition

This specialization aims to provide the student with the necessary skills to work in the maintenance of electric elevators. It addresses the principles of electrical machine control, installing new elevators, and maintenance and repair of electric elevators. It also seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Electronics (001121)

Definition

This specialization aims to provide the student with the basic skills to work in the field of electronic technologies. It also seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

**Computer Maintenance And Extension Of Computer
Network Cables (001122)**

Definition

This specialization aims to provide the student with the skills to manage and maintain computers and accessories, maintenance of computer network connections, optical fiber cables, and initial maintenance of handheld devices. It deals with basic concepts about electronics and electricity, computer hardware and software, computer operating systems and computer-aided engineering drawing. It also seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Car Mechanics (001123)

Definition

This specialization aims to provide the student with simple skills in the maintenance of automobile electrical faults, suspension and steering systems, braking systems, fuel systems (gasoline-diesel), and transmission. It also seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Cooling And Air Conditioning (001124)

Definition

This specialization aims to provide the student with specialized skills in the field of refrigeration and air conditioning, such as the principles of engineering drawing and technical drawing for refrigeration and air conditioning, training in the principles of electricity, welding, formation and bending of cold pipes. It also includes training in maintenance of regular and automatic water coolers (refrigerators and household freezers) the regular ones and those with fans and all types of air conditioners (on windows, evaporative, split units and compact units). It also seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Metal Plates (001125)

Definition

This specialization aims to provide the student with the necessary skills to shape, unfold, and produce surfaces, air ducts and metal furniture products. It also addresses the skills of performing technical measurements, technical drawing, welding and joining of sheet metal using various methods. It also seeks to train the student on managerial skills in order to develop their capabilities to establish and manage their own projects

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Mobile Devices Maintenance (001126)

Definition

This specialization covers the study of the principles of electricity and electronics, wireless communications, technical drawing, programs for operating and maintaining smartphones and designing electronic circuits on a computer.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Welding (001127)

Definition

This specialization aims to provide the student with the skills to perform welding work, test its quality using destructive, non-destructive tests, read drawings, to know the types of welding connections and their symbols, and perform calculations related to welding operations and classification of metals. It also covers the principles of welding, its various techniques, and the methods of using all equipment and related machines. It also seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Aluminum (001128)

Definition

This specialization aims to provide the student with specialized skills to do aluminum forming and installation works, sheet metal cladding, glass science, cutting, assembly and milling operations, performing technical calculations and production and technical drawing processes, in addition to installing and maintaining metal furniture. It also seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

General Carpentry (001129)

Definition

This specialization aims to provide the student with the skills to design and implement simple carpentry work, such as home furniture, office, bedrooms and kitchen. This specialization deals with training in the use of devices and electrical machinery in carpentry, in addition to training the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Haircutting (001130)

Definition

This specialization aims to provide the student with the skills to establish a barbershop and to do various types of hair shaving, care and skincare. It is also concerned with training on marketing, sales and managerial skills to develop the student's capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Auto Tinsmithing (001131)

Definition

This specialization aims to provide the student with the skills to work in the field of auto tinsmithing. It covers training on repairing, body welding, auto suction, dismantling and assembly of parts, interior and exterior accessories and glass tuning. It also deals with training the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Car Painting And Polishing (001132)

Definition

This specialization aims to provide the student with the skills to work in painting and polishing cars. It deals with the practical principles of painting and polishing cars, how to implement them, final finishing work and procedures for receiving and delivering cars. It also seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

**Detailed
Field**

Basic Programs And Qualifications (0011)

**Specialization
Name**

Transport Vehicles (001133)

Definition

This specialization aims to provide the student with the necessary skills to work on the maintenance of vehicles, chassis, electricity, engines, transmission, diesel fuel injection systems, technical drawing of vehicles, hydraulic systems, maintenance and fault diagnosis. It also deals with training the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Men's Sewing (001134)

Definition

This specialization aims to provide the student with the skills to design a clothing model, cut and sew fabrics, embroidering and printing clothes. It covers the principles of sewing, displaying and preparing clothes, studying the new fashion, and applicable safety and maintenance procedures. It also deals with training the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Sanitary Supplies (001135)

Definition

This specialization aims to provide the student with the skills to work on the feeding network, sewage extensions, install sanitary devices, calculate quantities, and maintain sanitary piping. It also addresses the basics and techniques of plumbing work.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Surveying (001136)

Definition

This specialization deals with specialized skills in drawing and surveying calculation, detailed cadastral surveying, topography, signing cadastral, geodetic surveying, photogrammetry, international GPS, and budget work. It also deals with training the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Civil Observation (001137)

Definition

This specialization deals with civil construction skills, drawing and reading charts, calculating quantities by a computer, civil construction workshops, principles of surveying, materials used in civil construction and drawing civilian facilities by a computer. It also deals with training the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Architectural Drawing (001138)

Definition

This specialization deals with specialized skills in computer-aided design, principles of architectural construction, architectural perspective and rendering, computer-generated architectural perspective and rendering and making architectural models. It also seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Architectural Observation (001139)

Definition

This specialization deals with architectural construction skills, drawing and reading charts, calculating quantities by a computer, drawing diagrams by a computer, principles of surveying and architectural materials. It also deals with training the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Basic Programs And Qualifications (001)**

Detailed
Field

Basic Programs And Qualifications (0011)

Specialization
Name

Heavy Equipment (001140)

Definition

This specialization aims to provide the student with the skills to maintain heavy equipment, equipment checking, change oil and filters and simple maintenance work. It also seeks to train the student on managerial skills to develop their capabilities to establish and manage their own projects.

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Literacy And Numeracy (002)**

Detailed
Field

Literacy And Numeracy (0021)

Specialization
Name

Literacy And Numeracy (002101)

Definition

These are programs or qualifications primarily designed for adults to teach basic reading, writing, and numeracy skills. The participants' average life expectancy can be used to distinguish between the detailed field "Basic Programs and Qualifications", which has code number 0011 and this detailed field.

Other Specializations Included In The Definition

- Adult Education
- Reading And Writing Literacy
- Numeracy

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Personal Skills And Development (003)**

Detailed
Field

Personal skills and development (0031)

Specialization
Name

Personal skills and development (003101)

Definition

This field refers to programs aimed at developing mental, social and other capacities. It includes, also, programs and qualifications that target transferable skills, and not classified in the detailed field (Basic programs and qualifications) (0011) and the detailed field (literacy and numeracy) (0021).

Other Specializations Included In The Definition

- Development Of Behavioral Capacities
- Development Of Mental Skills
- Development Of Personal Organizing Capacities
- Development Of Life Organizing Skills

Broad field: **Generic Programs And Qualifications (00)**

Narrow field: **Generic Programs And Qualifications Not Elsewhere Classified (009)**

**Detailed
Field**

Generic Programs And Qualifications Not Elsewhere Classified (0099)

**Specialization
Name**

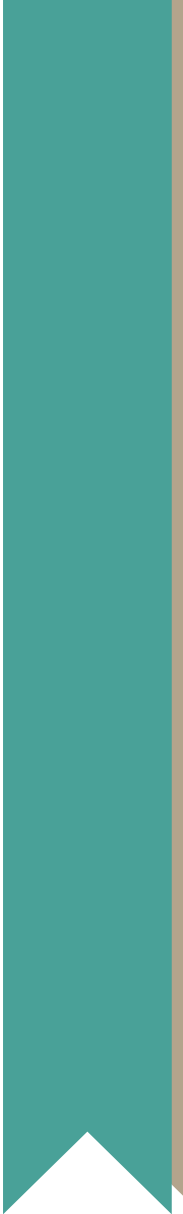
Generic Programs And Qualifications Not Elsewhere Classified (009999)

Definition

The code for “Generic Programs and Qualifications Not Elsewhere Classified” is used for any specialization or program in the broad field “Generic Programs and Qualifications” and it is not elsewhere classified until the classification and codification of new specialties are updated.

Field (01)
Education

Education 011



Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Programs In Education Not Further Defined (0110)

Specialization
Name

Specialization In Education Not Further Defined (011000)

Definition

The code “Specialization in Education Not Further Defined” is used for any specialization or program belonging to the narrow field “education”, and there is no additional information about it that help classify it in a specific detailed field.

Other Specializations Included In The Definition

- Newly Enrolled In Education

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Education Science (0111)

Specialization
Name

Islamic Education (011101)

Definition

This specialization aims to introduce the student to the concept of Islamic education, its targets, importance, characteristics, resources, and media. In addition to gaining knowledge of the ancestors' care to psychological and educational aspects. It also aims to provide the student with various scientific curricula in the sources of sciences and Islamic education research to serve the society, contribute to and support the educationally qualified persons in the Islamic education and its applications.

Other Specializations Included In The Definition

- Islamic And Comparative Education

Important Courses Under This Specialization

- Islamic Education History
- Psychological studies in Islamic education
- World education systems in light of Islamic education
- Educational thought among Muslim intellectuals
- Islamic education and current challenges
- Learning and education for Muslim minorities

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Education Science (0111)

Specialization
Name

Fundamentals Of Education (011102)

Definition

This specialization aims to provide the student with principles, facts, scientific theories, and practical applications that guide applied educational work, together with sources of these theories, philosophical, social, religious, cultural, psychological and political foundations that underlie them.

Other Specializations Included In The Definition

- Comparative International Education
- Comparative Education
- Islamic Fundamentals Of Education
- The Fundamentals Of Islamic And General Education
- Sociology Of Education

Important Courses Under This Specialization

- Cultural and social origins of education
- Educational policies
- Education and development in the world
- Comparative Education
- Education and Development

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Education Science (0111)

Specialization
Name

Educational Measurement And Evaluation (011103)

Definition

This specialization aims to introduce the student to the concepts in educational evaluation, objectives, tools, characteristics, importance, functions and types. It also addresses the steps of educational evaluation, how to build its tools, statistical methods used in the sake of deciding to develop the educational process, raise its efficiency, evaluate the educational system accurately and objectively, identify the strengths and shortcomings, take appropriate decisions to fix shortcomings and reinforce positive aspects.

Important Courses Under This Specialization

- Educational evaluation
- Building psychological and educational measurement tools
- Using computer in measurement
- Qualitative data collection and analysis
- Educational measurement and evaluation problems

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Education Science (0111)

Specialization
Name

Curricula And Teaching Methods (011104)

Definition

This specialization aims to provide the student with the knowledge and skills to design, plan, evaluate and develop the curriculum and implement its processes. It also seeks to provide the student with a set of performances, methods, and teaching strategies that the teacher uses to achieve certain educational goals or to achieve expected behavior among learners.

Other Specializations Included In The Definition

- Curricula And General Teaching Methods
- General Curricula
- Evaluation Of Curricula And Educational Programs
- Curricula And Educational Supervision
- Curricula And Educational Tools
- Curricula Development
- Curricula And Teaching Methods Of Social Studies
- Curricula And Teaching Methods Of History
- Curricula And Teaching Methods Of Islamic Education
- Curricula And Teaching Methods Of Physical Education
- Curricula And Teaching Methods Of Art Education
- Curricula And Teaching Methods Of Primary Education
- Curricula And Teaching Methods Of Geography
- Curricula And Teaching Methods Of Computer
- Curricula And Teaching Methods Of Educational Computer
- Curricula And Teaching Methods Of Islamic Studies
- Curricula And Teaching Methods Of Islamic Sciences
- Curricula And Teaching Methods Of Quranic Studies
- Curricula And Teaching Methods Of Mathematics
- Curricula And Teaching Methods Of Sciences
- Curricula And Teaching Methods Of Physics
- Curricula And Teaching Methods Of English Language
- Curricula And Teaching Methods Of Arabic Language
- Curricula And Teaching Methods Of English Teachers Of Primary Schools
- Curricula And Teaching Methods Of Teaching Aids And Technologies
- Curricula And Teaching Methods Of Teaching English As A Second Language
- Curricula And Teaching Methods Of Primary Education (Mathematics)
- Curricula And Teaching Methods Of Kindergarten
- Curricula And Teaching Methods Of Physical Education
- Principles Of Teaching Physical Education
- Teaching Mathematics
- Curricula And Teaching Methods Of Elementary Grades
- Curricula And Teaching Methods Of Family Education
- Curricula And Teaching Methods Of Primary Education
- Curricula And Teaching Methods Of Adults Education
- Curricula And Teaching Methods Of Educating Special Groups

Important Courses Under This Specialization

- Curricula planning
- General teaching methods
- Teaching design
- Teaching competencies and skills

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Education Science (0111)

Specialization
Name

Educational Technologies (011105)

Definition

This specialization aims to provide the student with the required knowledge and skills to appropriately employ educational technologies in the teaching and learning process and learn computer and educational software and the safe use of the Internet. It also focuses on using social networks as a method of individual and teamwork, in addition to recognizing the national standards of educational technologies for students and teachers and its importance.

Other Specializations Included In The Definition

- Methods And Technologies Of Education
- Childhood Education Technologies
- Virtual Reality Technology And Augmented Reality In Education
- Educational Methods And Technologies
- Designing Educational Technologies
- E-Learning
- Information Technology And Communications In Education
- Educational Methods And Technologies

Important Courses Under This Specialization

- Designing educational technologies
- Digital educational media production
- Evaluation and development of technologies used in educational process
- Educational technology innovations
- Technology integration in education

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Education Science (0111)

Specialization
Name

Learning Resources (011106)

Definition

This specialization aims to provide the student with the knowledge and skills to manage and operate educational resource centers in schools and various institutes. It also includes the study of theories, issues and modern applications in learning resource centers.

Other Specializations Included In The Definition

- Designing Educational Electronic Content
- Education Resource Center

Important Courses Under This Specialization

- Managing learning resource centers
- Information resources
- Operation and maintenance of educational devices
- Open educational resources

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Training For Pre-School Teachers (0112)

Specialization
Name

Early Childhood (011201)

Definition

This specialization aims to study the comprehensive development of a child in preschool (i.e., from three to six years old), from a physical, social, emotional, moral, and intellectual side, identify any disorders and take necessary measures to cure them. In addition, it aims to study teaching methods and strategies for preschool children, developing their skills, curricula, and various methods used.

Other Specializations Included In The Definition

- Kindergarten (Educational)
- Pre-Primary Education
- Early Childhood Education

Important Courses Under This Specialization

- Childhood Psychology
- Curricula and teaching methods for kindergarten
- Extraordinary child psychology
- Kinetic education of the child
- Designing programs and activities in kindergarten

Broad field: **Education (01)**

Narrow field: **Education (011)**

**Detailed
Field**

Teacher Training Without Subject Specialization (0113)

**Specialization
Name**

Language And Communication Disorders (011301)

Definition

This specialization aims to study how to educate and train children with articulation disorders, sound production, verbal fluency, and verbal expression, as well as planning, designing and providing appropriate educational services for them, developing curricula, and teaching methods that are used with this group of students.

Other Specializations Included In The Definition

- Speech And Articulation Disorders
- Language And Articulation Disorders

Important Courses Under This Specialization

- Language disorders
- Communication and articulation disorders
- Evaluation and diagnosis methods of the language and speech disorder
- Training methods of people with language and speech disorders

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training Without Subject Specialization (0113)

Specialization
Name

Behavior Disorders And Autism (011302)

Definition

This specialization aims to study the types of autism spectrum disorders, their symptoms, and diagnostic methods. It also seeks to enable the student to plan, prepare, carry out and develop educational and rehabilitation services provided to children with autism spectrum disorders, develop adaptive behavior skills, and offer psychological guidance to them, their families and other caregivers.

Other Specializations Included In The Definition

- Autism And Developmental Disability
- Autism Spectrum Disorders
- Autistic Disorder
- Attention Deficit Hyperactivity Disorder

Important Courses Under This Specialization

- Introduction to autism spectrum disorder
- Methods to assess and diagnose people with autism
- Teaching methods for people with autism
- Academic skills for people with behavioral disorders and autistic spectrum
- Life skills for people with behavioral disorders and autism spectrum

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training Without Subject Specialization (0113)

Specialization
Name

Emotional And Behavioral Disorders (011303)

Definition

This specialization aims to study types of emotional and behavioral disorders, their causes, characteristics, and diagnosis and treatment methods. It enables the student to plan, prepare, implement, and develop educational and rehabilitative services for these disorders through techniques of analyzing, developing, and modifying behavior.

Important Courses Under This Specialization

- Methods for measuring and diagnosing behavioral and emotional disorders
- Designing educational programs for behavioral and emotional disorders
- Introduction to behavior modification and building
- Building an individual educational program to deal with behavioral and emotional disorders

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training Without Subject Specialization (0113)

Specialization
Name

Visual Impairment (011304)

Definition

This specialization aims to provide the student with the knowledge and skills to educate and train people with visual impairment and partially sighted to adapt to this disability, through the use of custom tools, mainly training on reading and writing using raised dots line (Braille). It also includes studying how to plan, design, and provide educational services to people with visual impairment, or partially sighted.

Important Courses Under This Specialization

- Introduction to visual impairment and low vision
- Adaptive behavior for the visually impaired
- Teaching methods the visually impaired
- Acquired capabilities for the visually impaired

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training Without Subject Specialization (0113)

Specialization
Name

Hearing Impairment (011305)

Definition

This specialization aims to provide the student with the required knowledge and skills to educate and train people with hearing impairment and low hearing to communicate and for language communication using sign language or by oral communication, to enhance their ability to learn and communicate. It also includes studying how to plan, design and deliver educational services to the hearing impaired or low hearing.

Other Specializations Included In The Definition

- Deaf And Low Hearing People

Important Courses Under This Specialization

- Introduction to hearing loss and hearing impairment
- Sign language and oral communication
- Rehabilitation Services for people with hearing impairment and hearing reduction
- Teaching methods for people with hearing impairment and hearing reduction

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training Without Subject Specialization (0113)

Specialization
Name

Mental Retardation (011306)

Definition

This specialization aims to provide the student with the required knowledge and skills to teach and train people with mental disabilities on adaptive behavior skills, and how to plan, prepare and present individual and group programs for this group of children. It also includes studying how to plan and design educational and pedagogical services provided to children with mental disabilities and impaired mental functions, appearing in academic capabilities, self-care, and communication.

Other Specializations Included In The Definition

- Intellectual Education
- Mental Retardation

Important Courses Under This Specialization

- Introduction to mental disability
- Methods of evaluation of people with mental disability
- Teaching methods for people with mental disability
- Individual educational programs for people with mental disabilities

Broad field: **Education (01)**

Narrow field: **Education (011)**

**Detailed
Field**

Teacher Training Without Subject Specialization (0113)

**Specialization
Name**

Early Intervention (011307)

Definition

This specialization aims to provide the student with the knowledge and skills in a range of psychological, social and educational services introduced to children under six years of age who suffer or vulnerable to developmental delay or disability. This specialization addresses a comprehensive set of interventions to rehabilitate parents and provide them with the skills necessary to help such children grow, learn, and adapt to daily life.

Important Courses Under This Specialization

- Introduction to early intervention programs
- Developmental disorders in early childhood
- Methods for measuring and evaluating children with disability or developmental disorders
- Building individual and family programs in the early intervention stages

Broad field: **Education (01)**

Narrow field: **Education (011)**

**Detailed
Field**

Teacher Training Without Subject Specialization (0113)

**Specialization
Name**

Special Education (011308)

Definition

This specialization aims to study the educational and psychological aspects of children with special needs. It also deals with the methods of evaluation, care, education and rehabilitation of children with disabilities to adapt to their environments through the preparation and implementation of educational programs appropriate to the nature of their needs.

Other Specializations Included In The Definition

- Inclusive Education
- Developmental Disabilities
- Widespread Developmental Disabilities
- Minimal Developmental Disabilities
- Sensory Disabilities

Important Courses Under This Specialization

- Introduction to special education for people with disability
- Evaluation and diagnosis in special education
- Teaching strategies for people with special needs
- Special educational programs for people with disabilities and developmental disorders

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training Without Subject Specialization (0113)

Specialization
Name

Learning Difficulties (011309)

Definition

This specialization aims to study the developmental and academic difficulties experienced by some students, with a diverse group of disorders, leading to the emergence of apparent challenges in acquiring and using the capabilities of listening, attention, speech, reading, writing, mathematical reasoning, and developmental deficiencies in focus, paying attention, despite having a normal level of intelligence. It focuses on methods for early diagnosis of the students with learning difficulties and designing educational programs appropriate to the nature and severity of these difficulties.

Important Courses Under This Specialization

- Introduction to academic and developmental learning difficulties
- Evaluating and diagnosing formal and informal learning difficulties
- Teaching strategies for people with formal and informal learning disabilities
- Building an individual educational program for people with learning disabilities

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training Without Subject Specialization (0113)

Specialization
Name

Mental Excellence And Innovation (011310)

Definition

This specialization aims to study the characteristics of talented and gifted students and formal and informal methods to identify them and care for them. It also focuses on the educational, psychological, and family problems of this group of students, and the nature of the interventions required to deal with them.

Other Specializations Included In The Definition

- Gifted Education
- Talent And Mental Excellence
- Care For The Gifted

Important Courses Under This Specialization

- Models and theories of talent, excellence and innovation
- Formal and informal methods for identifying the gifted and talented
- Building individual educational programs of the gifted and talented
- The main mental processes of learning and factors affecting the education and learning of the gifted

Broad field: **Education (01)**

Narrow field: **Education (011)**

**Detailed
Field**

Teacher Training Without Subject Specialization (0113)

**Specialization
Name**

Multi Impairments (011311)

Definition

This specialization aims to study multiple and severe disabilities, classifications, causes, characteristics, and psychological and educational needs. It also addresses preparing qualified professionals in planning, designing and implementing educational and qualification programs for people with multiple and severe disabilities, as well as working with their families to improve the quality of life of this group of children.

Other Specializations Included In The Definition

- Severe And Multiple Disabilities
- The Severely Handicapped

Important Courses Under This Specialization

- Introduction to severe and multiple disabilities
- Study the needs of children with multiple disabilities
- evaluation and diagnosis in the field of severe and multiple disabilities
- Methods of rehabilitation for people with multiple and severe disabilities

Broad field: **Education (01)**

Narrow field: **Education (011)**

**Detailed
Field**

Teacher Training Without Subject Specialization (0113)

**Specialization
Name**

Applied Behavior Analysis (011312)

Definition

This specialization aims to provide the student with theoretical foundations and practical applications of applied behavior analysis used with children with special needs. This specialization also covers designing, implementing, and evaluating behavior modification programs, methods of behavior increase, or behavior reduction appropriate for this group of children.

Important Courses Under This Specialization

- The science of applied behavior analysis
- Methods for measuring and shaping problematic behavior
- Therapeutic intervention according to applied behavior analysis
- Building the individual plan based on applied behavior analysis for children with special needs

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training Without Subject Specialization (0113)

Specialization
Name

Primary Education (011313)

Definition

This specialization aims to prepare efficient teachers in primary education. It addresses the study of curricula and teaching methods used in the education of students at the elementary level. This specialization deals with studying the characteristics of children in the primary stage (ages six to eleven) in terms of psychological, educational aspects, and the best methods for acquiring knowledge and basic learning skills such as reading, and writing and arithmetic, in this stage.

Other Specializations Included In The Definition

- Primary School Teacher

Important Courses Under This Specialization

- Curricula and teaching methods elementary classes
- Active learning and differentiated teaching
- Organizing and managing elementary school class
- Elementary school curriculum

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training Without Subject Specialization (0113)

Specialization
Name

Adult And Continuing Education (011314)

Definition

This specialization addresses theoretical foundations and practical applications of adult education systems and their models, challenges, methods, and types of continuing education systems, implementations, role in development and challenges.

Important Courses Under This Specialization

- Psychological and physiological characteristics of adults
- Adult education methods
- Managing adult education Programs
- Continues education models and applications

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Primary Education (Early Grades) (011401)

Definition

This specialization aims to prepare a comprehensive teacher for elementary grades in Islamic education, Arabic language, mathematics and science subjects. It consists of a specialized preparation in Islamic education, Arabic language, mathematics, science, and educational preparation (characteristics of growth and teaching and learning processes, evaluation and classroom skills) with practical training in the curricula of primary classes early in the course of the preparation period in educational preparation courses and practical education.

Important Courses Under This Specialization

- Jurisprudence and Creed
- Arabic Language
- Mathematics
- Organizing and managing the elementary school class
- Education technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Primary Education (Upper Grades) (011402)

Definition

This specialization aims to prepare competent teachers in teaching the courses of Islamic education, Arabic language, mathematics, science and social studies for students in the upper grades of the primary stage. It consists of two tracks: The first: specialized preparation in Islamic education, Arabic language, and social studies, and the second: specialized preparation in mathematics, science, and technology, and both tracks include educational preparation (characteristics of growth, teaching and learning processes, learning assessment and classroom skills), with practical training in the curricula of upper grades early during the preparation period in educational preparation courses and practical education.

Other Specializations Included In The Definition

- Upper Grades (Mathematics, Science And Technology)
- Upper Grades (Islamic Education, Arabic Language, And Social Studies)

Important Courses Under This Specialization

- Science and mathematics
- Arabic Language
- Islamic Education
- Social Studies
- Organizing and managing the elementary school class
- Educational Technology

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Social Sciences (Educational) (011403)

Definition

This specialization aims to prepare competent teachers in the fields of social subjects, to teach in the general education stages. This specialization addresses theories, facts, laws, and practical skills in the areas of social subjects. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching sector efficiently.

Important Courses Under This Specialization

- principles of science of history
- principles of geography
- Educational evaluation
- Teaching methods
- Educational Technology

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Home Economics (Educational) (011404)

Definition

This specialization aims to prepare competent teachers for teaching family education courses in the general education stages. It addresses the academic knowledge framework at theoretical and practical levels, including theories, facts, laws, and practical skills in the areas of home care and family welfare, educational, financial, social and nutritional aspects. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching sector efficiently.

Other Specializations Included In The Definition

- Family Education (Educational)
- Home Economics And Art Education (Educational)
- Nutrition And Food Science (Educational)
- Housing And Home Management With Educational Setting
- Clothes And Fabric (Educational)

Important Courses Under This Specialization

- Family economics
- Preparing and preserving foods
- Costume design
- Small projects management
- Educational evaluation
- Teaching methods and approaches

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

School Activities (011405)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, design, organize, implement, follow-up and evaluate school activities inside and outside educational institutions, formal and informal, scholastic, or non-scholastic, that leads to more experiences and support learning of various subjects.

Other Specializations Included In The Definition

- School Sports Activities
- Recreational Sports Activities For People With Special Needs

Important Courses Under This Specialization

- Educational media at school
- Interactive school activities
- Artistic and theatrical activities
- School sports infrastructure and equipment

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Physical Education (011406)

Definition

This specialization aims to prepare competent teachers in the field of physical education for teaching in the general education stages. It addresses the academic knowledge framework at theoretical and practical levels, including theories, facts, laws, and practical skills in the fields of sports training and physical education. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Other Specializations Included In The Definition

- Physical Education (Educational)

Important Courses Under This Specialization

- Training of Sports
- Physical fitness
- Educational evaluation
- Teaching methods and approaches
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Primary Education (Islamic Studies) (011407)

Definition

This specialization aims to prepare competent teachers in the teaching of Sharia studies courses for elementary school students. This major deals with the academic knowledge framework on a theoretical and practical level, including theories, facts, laws, and practical skills in the fields of Sharia studies, such as the Quran, jurisprudence, doctrine, and the fundamentals of religion. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Other Specializations Included In The Definition

- Primary Education (Sharia Sciences)

Important Courses Under This Specialization

- Islamic creed
- Prophetic Hadith
- Educational evaluation
- Teaching methods
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Primary Education (Mathematics) (011408)

Definition

This specialization aims to prepare competent teachers in teaching mathematics for elementary students. It addresses the academic knowledge framework at the theoretical and practical levels, including theories, facts, laws, and practical skills in the fields of mathematics, such as algebra and geometry. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- Algebra
- Engineering
- Statistics and probability
- Educational evaluation
- Teaching methods
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Primary Education (Science) (011409)

Definition

This specialization aims to prepare competent teachers in teaching science courses for elementary school students. It addresses the academic knowledge framework at the theoretical and practical levels, including theories, facts, laws, and practical skills in the fields of science such as; biology, chemistry, and physics. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- Biology
- Zoology and Botany
- Chemistry
- Physics
- Educational evaluation
- Teaching methods
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Primary Education (Arabic Language) (011410)

Definition

This specialization aims to prepare competent teachers in teaching Arabic course for elementary school students. It addresses theories, facts, laws, and practical skills in the areas of Arabic, such as grammar, literature, rhetoric and criticism. It focuses on the educational preparation of competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- Arabic Syntax and Morphology
- Criticism and rhetoric
- Educational evaluation
- Teaching methods
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Biology (Educational) (011411)

Definition

This specialization aims to prepare competent teachers in teaching biology course for general education students. It deals with theories, facts, laws, and practical skills in the biology major. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- General Animal Physiology
- Modern Physics
- Microbiology
- Educational evaluation
- Teaching methods
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Mathematics (Educational) (011412)

Definition

This specialization aims to prepare competent teachers in teaching mathematics for general education students. It deals with the knowledge and academic framework at the theoretical and practical levels, including theories, facts, laws and practical skills in Mathematics major. It focuses on the educational preparation of competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Other Specializations Included In The Definition

- Secondary Education (Mathematics)

Important Courses Under This Specialization

- Algebra
- Engineering
- Educational evaluation
- Teaching methods
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Science (Educational) (011413)

Definition

This specialization aims to prepare competent teachers in teaching science courses. It addresses the academic knowledge framework at the theoretical and practical level, including theories, facts, laws, and practical skills in science majors, such as biology and physics, and chemistry. On the one hand, it focuses on the educational preparation of competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Other Specializations Included In The Definition

- Secondary Education (Science)

Important Courses Under This Specialization

- Principles of Physical Chemistry
- Botany physiology
- General Biology
- Educational evaluation
- Teaching methods
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Physics (Educational) (011414)

Definition

This specialization aims to prepare competent teachers in teaching the physics course for general education students. It addresses theories, facts, laws, and practical skills in physics major. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- General Relativity Physics and cosmology
- Solid Physics
- Qualitative Quantum
- Educational evaluation
- Principles of chemistry
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Chemistry (Educational) (011415)

Definition

This specialization aims to prepare competent teachers in teaching chemistry course for general education students. It addresses theories, facts, laws, and practical skills in chemistry major. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- Basics of Computer Science
- Chemistry of Aromatic Compounds
- Biochemistry
- Educational evaluation
- Teaching methods
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Computer Science (Educational) (011416)

Definition

This specialization aims to prepare competent teachers in teaching the computer course for general education students. It addresses theories, facts, laws, and practical skills in computer major. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Other Specializations Included In The Definition

- Computer Education And Maintenance

Important Courses Under This Specialization

- Principles of Computing
- Software and applications in Computing
- Educational evaluation
- Teaching methods
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

History And Civilization (Educational) (011417)

Definition

This specialization aims to prepare competent teachers in teaching history and civilization for general education students. It addresses theories, facts, laws, and practical skills in the history major. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Other Specializations Included In The Definition

- Islamic History And Civilization (Educational)

Important Courses Under This Specialization

- Foundations of history and civilization
- History of the Kingdom of Saudi Arabia
- Educational evaluation
- Teaching methods
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Art Education (011418)

Definition

This specialization aims to prepare competent teachers in the field of art education for teaching in the general education stages. This specialization deals with the technical aspects of it, such as drawing, sculpting and design. It focuses on the educational preparation and development of competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Other Specializations Included In The Definition

- Art Education (Educational)
- Porcelain Works (Educational)
- Glass Works Made Of Plaster (Educational)
- Metal And Enamel Work (Educational)

Important Courses Under This Specialization

- Drawing Studio
- Wood and metal work
- Artistic taste
- Educational evaluation
- Teaching methods
- Learning technologies

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Geography (Educational) (011419)

Definition

This specialization aims to study the physical and human geography in terms of terrain, climate, wealth and population distributions. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- Physical geography
- Population geography
- Cartography
- Educational evaluation
- Teaching methods
- Educational Technology

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Interpretation And Quran Sciences (Educational) (011420)

Definition

This specialization aims to develop the student knowledge about the Holy Quran, its sciences, interpretation, understanding of its meanings, and reasons for revelation. It covers educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- Quran Readings Science
- Educational evaluation
- Teaching methods
- Educational Technology

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Islamic Culture (Educational) (011421)

Definition

This specialization aims to study the ethical, emotional, social, and intellectual aspects of Islamic culture, the consistent behavior of society with Islamic law, systems, and laws subject to it, and individual and societal behavior application. The specialization covers competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- Sources of Islamic culture
- Islamic systems and civilization development
- Intellectual schools in Islamic civilization
- Educational evaluation
- Teaching methods
- Educational Technology

Broad field: **Education (01)**

Narrow field: **Education (011)**

**Detailed
Field**

Teacher Training With Subject Specialization (0114)

**Specialization
Name**

The Holy Quran And Islamic Studies (Educational) (011422)

Definition

This specialization aims to study the Noble Qur'an, its sciences, its interpretation, and its meanings, and reasons of revelation. It also focuses on general knowledge about Islamic studies such as creed, hadith, and intents of Sharia. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Other Specializations Included In The Definition

- Quranic Readings (Educational) (Educational)
- Readings (Educational) ● Preaching And Islamic Culture
- Islamic Studies And Education (Educational) ● Shari'ah Sciences (Educational)
- Islamic Law And Islamic Studies

Important Courses Under This Specialization

- Sciences of Quran
- Islamic Jurisprudence and creed
- Educational evaluation
- Teaching methods
- Educational Technology

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Sciences Of Hadith (Educational) (011423)

Definition

This specialization aims to study chains and texts of prophetic hadiths(peace be upon him), to protect the Islamic religion from distortion and alteration. It also focuses on the methodology used by the first scholars to prove hadith, purify it from the inauthentic. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- Books of Sunnah
- Hadith referencing and study of Hadith chains
- The Sciences of Invalidation And Rectification
- Educational evaluation
- Teaching methods
- Educational Technology

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Creed (Educational) (011424)

Definition

This specialization aims to study the Islamic faith, its pillars, fundamental and subsidiary issues. It also studies the curricula of boredom, difference, and different Islamic schools of thought. Besides, the study of various intellectual currents, analysis and criticism. In addition, it focuses on competencies in the educational aspects such as teaching methods, educational evaluation, production, and use of teaching methods to qualify the student to join the teaching staff efficiently.

Other Specializations Included In The Definition

- Contemporary Creed And Doctrines (Educational)

Important Courses Under This Specialization

- Principles of sound Islamic creed
- Contemporary intellectual currents
- Islamic sects and groups
- Educational evaluation
- Teaching methods
- Educational Technology

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Islamic Law And Its Foundations (Educational) (011425)

Definition

This specialization is concerned with studying Sharia rulings in the fields of worship, transactions, personal status, etc. It deals with the principles upon which it relies on legislation, namely Qur'an, Hadith, consensus, and deductive analogy. It qualifies students in educational aspects, such as teaching methods, educational evaluation, production and usage of various educational means to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- The intents of Islamic Sharia
- Jurisprudence Rules
- Ijtihad(Legal exertion) in Islamic Jurisprudence
- Educational evaluation
- Teaching methods
- Educational Technology

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

English Language (Educational) (011426)

Definition

This specialization aims to prepare competent teachers of English in general education. It deals with the scientific aspects of the English along with the educational aspects, such as teaching methods, educational evaluation, and the production and usage of educational means to qualify the student to join the teaching staff efficiently.

Other Specializations Included In The Definition

- English Literature (Educational)
- Primary School English Teaching
- Secondary Education (English)

Important Courses Under This Specialization

- Principles of English grammar
- Educational evaluation
- Teaching methods
- Educational Technology

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Arabic Language (Educational) (011427)

Definition

This specialization aims to prepare competent teachers of Arabic language and literature in general education. It deals with the scientific aspects along with the educational aspects, such as teaching methods, educational evaluation, and the production and usage of educational means to qualify the student to join the teaching staff efficiently.

Other Specializations Included In The Definition

- Arabic Language, Grammar And Morphology
- Arabic Language And Social Sciences (Educational)
- Linguistics (Educational)
- Literature, Rhetoric And Criticism (Educational)
- Secondary Education (Arabic Language)

Important Courses Under This Specialization

- Arabic Grammar
- Introduction to rhetoric and criticism
- Educational evaluation
- Teaching methods
- Educational Technology

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Teacher Training With Subject Specialization (0114)

Specialization
Name

Psychology (Educational) (011428)

Definition

This specialization deals with the study of human psychology, its evolution, behavior, diseases, patterns, and changes exposed to, in all stages. It enables students to apply psychological tests, such as IQ, and personality types. It provides the learner with the essential skills, to design, provide and follow up treatment and counseling programs, and help clients overcome the difficulties. It qualifies students in educational aspects, such as teaching methods, educational evaluation, production and usage of various educational means to qualify the student to join the teaching staff efficiently.

Important Courses Under This Specialization

- Development psychology
- Personality psychology
- Psychology of special groups
- Measurement and evaluation
- psychological Guidance and counseling
- Teaching methods and approaches

Broad field: **Education (01)**

Narrow field: **Education (011)**

**Detailed
Field**

Other Programs In Education Not Elsewhere Classified (0119)

**Specialization
Name**

Preparation Of School Laboratories (011901)

Definition

This specialization aims to provide the student with the knowledge and skills to prepare the school laboratory environment, tools, and devices for students to conduct scientific experiments, tests, and measurements therein, according to the curriculum. It also aims to enable the student to operate and maintain laboratory devices and tools and assist students in their optimal use.

Other Specializations Included In The Definition

- School Laboratory Organizers
- Educational Laboratories

Important Courses Under This Specialization

- Laboratory technology
- School experiments in science courses
- Laboratory Safety and Security

Broad field: **Education (01)**

Narrow field: **Education (011)**

Detailed
Field

Other Programs In Education Not Elsewhere Classified (0119)

Specialization
Name

Other Specializations In Education Not Elsewhere Classified (011999)

Definition

The code (Other Specializations in Education Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Education” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Education (01)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Education (018)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Education (0188)

Specialization
Name

Inter-Disciplinary Programs And Qualifications Involving Education (018888)

Definition

The code of “Inter-Disciplinary Programs And Qualifications Involving Education” is used in any Inter-disciplinary programs that majority of the teaching time is devoted to “Education”





Field (02)

Arts And Humanities

Arts 021

Humanities (Except Languages) 022

Languages 023



Broad field: **Arts And Humanities (02)**

Narrow field: **Programs In Arts And Humanities Not Further Defined (020)**

Detailed
Field

Programs In Arts And Humanities Not Further Defined (0200)

Specialization
Name

Specialization In Arts And Humanities Not Further Defined (020000)

Definition

The code “Specialization In Arts And Humanities Not Further Defined” is used for any specialization or program belonging to the narrow field “Arts and humanities”, and there is no additional information about it that help classify it in a specific detailed field.

Other Specializations Included In The Definition

- Newly Enrolled In Literatures
- The Preparatory Year For The Humanities Departments

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Programs In Arts Not Further Defined (0210)

Specialization
Name

Specialization In Arts Not Further Defined (021000)

Definition

The code “Specialization In Arts Not Further Defined” is used for any specialization or program belonging to the narrow field “Arts” and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Audio-Visual Techniques And Media Production (0211)

Specialization
Name

Radio, Television And Film (021101)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, prepare and direct radio, television and cinematic works such as programs, drama, news and movies.

Other Specializations Included In The Definition

- Radio And Television
- Production And Design
- Cinematography
- Radio Production
- Radio And Tv Directing Assistants
- Television Photography And Production
- Radio And Digital Media
- Media Production Technology

Important Courses Under This Specialization

- Writing for radio and television
- Interactive TV
- Digital radio
- Movies industry
- Film narrative

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Audio-Visual Techniques And Media Production (0211)

Specialization
Name

Graphic Design And Digital Media (021102)

Definition

This specialization aims to provide the student with the skills to plan, design and produce designs of various kinds such as photos - logos - publications - posters - ads - websites and applications, using various computer programs. It enables the student to plan, design, and produce digital media or multimedia that combine sound, image, movement and animation to deliver a message or achieve a specific goal.

Other Specializations Included In The Definition

- Graphic Production
- Publications And Multimedia Design
- Computer Graphic Design
- Graphic Design
- Computer Graphic And Multimedia Design
- Multimedia Production
- Printing Design
- Design Arts
- Arts In Motion Designs
- Graphics And Multimedia
- Electronic Drawing
- Professional Visual Communication
- Graphics Design
- Online Sites Design
- Websites Design

Important Courses Under This Specialization

- principles of digital photo
- Design Software
- Graphic animation
- Interactive media design

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Audio-Visual Techniques And Media Production (0211)

Specialization
Name

Music Production (021103)

Definition

This specialization aims to provide the student with the skills to record and produce different rhythms and tracks. It deals with sound engineering principles, the techniques of using computer programs specializing in audio production and processing, and the way of handling musical production devices.

Other Specializations Included In The Definition

- Sound Technologies

Important Courses Under This Specialization

- Principles of sound engineering
- Audio signal processing
- Production technologies
- Microphone technologies
- Computer programs used in audio production

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Audio-Visual Techniques And Media Production (0211)

Specialization
Name

Advertising Creative Design (021104)

Definition

This specialization aims to provide the student with the skills to plan, prepare, and design advertising materials and campaigns to promote a product or commodity innovatively and effectively. It deals with the skills that enable the student to create text and visual and audible content for advertising to achieve the desired goal.

Other Specializations Included In The Definition

- Print Designs And Advertisement

Important Courses Under This Specialization

- Advertising ideas creativity skills
- Advertising campaign planning
- Advertising writing skills
- Measuring ad results and campaigns
- Introduction to advertising creativity
- Advertising design (visual - print - audio)

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Audio-Visual Techniques And Media Production (0211)

Specialization
Name

Photography (021105)

Definition

This specialization aims to provide the student with the essential skills to capture, save and produce images for various purposes. The student also possesses proficiency in dealing with types of cameras, lenses, natural and artificial lighting.

Other Specializations Included In The Definition

- Fashion Photography

Important Courses Under This Specialization

- Aerial photography
- Marketing photography
- Personal photography
- Scientific photography
- Types of cameras and lenses

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Audio-Visual Techniques And Media Production (0211)

Specialization
Name

Digital And Visual Production (021106)

Definition

This specialization aims to provide the student with the essential skills in planning, designing and producing films such as short films and animations, video game design, mobile applications and other applications. It qualifies the student to use visual, acoustic and animation effects creatively and innovatively.

Other Specializations Included In The Definition

- Video Games Design
- Writing Contents And Scenarios
- Animated Films
- Production And Direction

Important Courses Under This Specialization

- Visual and digital production and Direction
- Traffic design in internet
- Writing texts and scenarios
- Design and develop games
- documentaries
- Radio and television production

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Audio-Visual Techniques And Media Production (0211)

Specialization
Name

Printing And Wrapping (021107)

Definition

This specialization aims to provide the student with the essential skills of printing technique and types such as offset printing, embossing printing and rotogravure printing. It also deals with inks, adhesives, packaging and production techniques.

Other Specializations Included In The Definition

- Printing And Publication
- The Art Of Printing And Dyeing
- Printing Direction
- Artwork Printing

Important Courses Under This Specialization

- Printing techniques and types
- Packaging and filling techniques
- Development of printing and packaging processes
- Quality assurance in the printing work

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Fashion, Interior And Industrial Design (0212)

Specialization
Name

Interior Design (021201)

Definition

This specialization aims to provide the student with skills to design and arrange interior space in buildings and facilities such as homes, offices, restaurants, markets, and factories, besides studying internal design problems to find appropriate solutions. It covers the study of computer design applications, drawing techniques, principles of color and interior lighting, finishing work, furniture distribution, to achieve beautiful, practical, safe and comfortable interior spaces.

Other Specializations Included In The Definition

- Design Of Theaters And Galleries
- Interior Design Engineering
- Space Design
- Interior Design And Furniture

Important Courses Under This Specialization

- Principles of residential and commercial design
- Theories of color and lighting and Color studies
- Digital tools of designing
- principles of architectural drawing
- Executive drawings and specifications
- Constructions in interior design

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Fashion, Interior And Industrial Design (0212)

Specialization
Name

Product Design (021202)

Definition

This specialization aims to provide the student with the knowledge and skills to design and develop products. It deals with the product design journey, starting by identifying the consumer need, creating product ideas, developing required designs, and producing an initial physical model for customer understanding.

Other Specializations Included In The Definition

- Industrial Product Design

Important Courses Under This Specialization

- Visual communication
- Production design studio
- Computer applications in digital design
- Electronic devices design
- Professional equipment design
- Electronic devices design

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Fashion, Interior And Industrial Design (0212)

Specialization
Name

Jewelry Design (021203)

Definition

This specialization aims to provide the student with the skills to design jewelry, precious stones, and creating innovative solutions compatible with everyday uses, special events, contemporary art, and fashion changes. It focuses on types of jewelry, precious stones, distinguished and environmental, functional and economical designing techniques used, their coloring, implementation, and compatibility with proposed design models.

Important Courses Under This Specialization

- Principles of jewelry design
- Types of jewelry and precious stones
- The use of modern technology in manufacturing
- Drawing jewelry using patterns and pastels
- History of jewelry and jewelry design

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Fashion, Interior And Industrial Design (0212)

Specialization
Name

Fashion Design & Textile (021204)

Definition

This specialization aims to provide the student with the knowledge and skills to design, manufacture, sew, and embroider textile, clothing, and fashion accessories such as bags, belts, scarves, and others. It also includes marketing clothes and textiles, studying the types of textiles, the materials used, and the different styles of fashion in ancient and modern times.

Other Specializations Included In The Definition

- Fashion Design
- Pattern Design And Clothing Implementation
- Applied Technological Fashion Design
- Clothing And Textiles Designing And Embroidering
- Clothing And Jewelry Design

Important Courses Under This Specialization

- Principles of costume design
- The art of weaving
- Tissue structures technology
- Computer pattern drawing
- Fashion supplement design
- Fashion marketing

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Fashion, Interior And Industrial Design (0212)

Specialization
Name

History Of Clothing And Embroidery (021205)

Definition

This specialization aims to study historical and cultural backgrounds of the origins and development of clothing and embroidery design across different eras. It deals with the study of different types of costumes in ancient Egyptian, Greek, Roman eras and European fashion from the Middle Ages until the twentieth century. It also deals with the great diversity of traditional costumes, their development, materials used, influenced by culture and the surrounding environment.

Important Courses Under This Specialization

- Educational and technical theories and their applications
- Costumes
- Heritage fashion of Arab countries
- The evolution of the Kaaba clothing

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Fine Arts (0213)

Specialization
Name

Drawing And Arts (021301)

Definition

This specialization aims to provide the student with the skills to simulate colors of natural shapes and objects in every detail and to use colors, areas, lines and shadows to produce creative and innovative artwork. It deals with teaching principles of drawing and its terminology, preserving the anatomical proportions and rules by simulating shapes from reality using different drawing techniques, knowing the properties of color and methods of performance through various tools and color materials.

Other Specializations Included In The Definition

- Islamic Arts
- Painting And Photography
- Oil Painting (Plastic Arts)
- Applied Art
- Fine Art
- Painting And Printmaking

Important Courses Under This Specialization

- Philosophy of modern art
- Fundamental of drawing
- Fundamental of plastic photography
- Building a pictorial
- Color technology
- Criticism and artistic tasting

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Fine Arts (0213)

Specialization
Name

Engraving, Sculpture And Decoration (021302)

Definition

This specialization aims to provide the student with skills in the fields of sculpture, engraving, and decoration, using glass, wood, copper, and different materials. It covers the design and implementation of sculpture free wall decorations, decoration design units, decorative patterns and the implementation of designs using appropriate technological methods benefiting from sculpting technology.

Other Specializations Included In The Definition

- Sculpture
- Objectified Expressions
- Etching

Important Courses Under This Specialization

- Principles of sculptural formation
- Decorative design
- Sculpting with different materials
- Protuberance sculptural design
- Holographic sculptural design

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Handicrafts (0214)

Specialization
Name

Artwork (021401)

Definition

This specialization aims to provide the student with the technical skills to produce innovative artworks, using various materials. It deals with types of materials used in technical works, their physical properties and techniques used in dealing with these materials.

Other Specializations Included In The Definition

- Porcelain Work
- Metal And Enamel Work
- Plaster Glass Works
- Ancient Craftworks
- Leather Craftwork
- Craft Plaster Works
- Handcrafted Pottery Works
- Copper Craftwork
- Metal And Jewelry
- Islamic Craft Arts
- Heritage Handicrafts
- Textile Arts
- Handmade Fabric And Upholstery
- Craftwork Training

Important Courses Under This Specialization

- Processing clay surfaces
- Glass coatings and fixtures
- Principles of designing and implementing enamel works and drafting
- Tools used in metal forming
- Principles of plaster and lead glass design
- Artworks by environmental materials

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Handicrafts (0214)

Specialization
Name

Tailoring & Dressmaking (021402)

Definition

This specialization aims to provide the student with the skills and techniques related to sewing, detailing and hand embroidery with different designs. It deals with skills of sewing machines, automatic embroidery and computer-aided design, in addition to training in methods and skills of managing sewing shops professionally.

Other Specializations Included In The Definition

- Manual Embroidery

Important Courses Under This Specialization

- Principles of designing and producing clothes
- Principles of drawing patrons
- Computer fashion design
- Implementation of evening wear
- Printing and dyeing of fabrics
- Fashion industry

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Music And Performing Arts (0215)

Specialization
Name

Cinema And Theatre (021501)

Definition

This specialization aims to provide the student with the knowledge and skills to produce, compose, perform, direct, and analyze cinematic and theatrical works in its various forms and dramatic types. It deals with the study of all stages of cinema and theater production, in addition to studying methods of analysis, criticism, business studies, schools and international practices in cinema and theater.

Other Specializations Included In The Definition

- The Art Of Theater
- Drama
- Acting And Directing
- Theater Directing
- Film Production And Directing

Important Courses Under This Specialization

- Acting
- Theatrical and cinematic production
- Characters and costumes in the cinema and theater
- Lighting rules
- Filmmaking
- Film schools and methods

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Music And Performing Arts (0215)

Specialization
Name

Music (021502)

Definition

This specialization aims to provide the student with the knowledge and skills to compose, perform and criticize musical notes. It covers arts of composition, musical playing and training in different types of instruments. It deals with the history, development, and theories of music analysis, musical analysis and criticism criteria and modern technologies (computer programs and applications, devices) related to music.

Other Specializations Included In The Definition

- Music Composition
- Military Music
- History Of Music

Important Courses Under This Specialization

- History of music
- Musical composition and composition
- Phonology
- Musical Instruments
- Musical computer applications
- Music composition and arrangement

Broad field: **Arts And Humanities (02)**

Narrow field: **Arts (021)**

Detailed
Field

Other Programs In Arts Not Elsewhere Classified (0219)

Specialization
Name

Other Specializations In Arts Not Elsewhere Classified (021999)

Definition

The code (Other Specializations In Arts Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Arts” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Arts And Humanities (02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

Programs In Humanities (Except Languages) Not Further Defined (0220)

Specialization
Name

Specialization In Humanities (Except Languages) Not Further Defined (022000)

Definition

The code “Specialization in Humanities (except languages) not further defined” is used for any specialization within the narrow field “Humanities (except languages)” and has no additional information that help classify it in a specific narrow field.

Broad field: **Arts And Humanities (02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

Religion And Theology (0221)

Specialization
Name

Islamic Studies (022101)

Definition

This specialization is concerned with providing the student with sciences and knowledge of Islamic religion, its rulings, purposes and principles of legislation. It covers a wide range of Islamic sciences, such as the Sciences of the Holy Qur'an, interpretation and its principles, hadith and its sciences, doctrine, call, and guidance, Jurisprudence, and the glorious rulings of Sharia and its applications, in contemporary life.

Other Specializations Included In The Definition

- Contemporary Islamic Studies
- Islamic Studies Among Orientalists

Important Courses Under This Specialization

- Islamic Civilization
- Islamic morals
- Jurisprudence and Fundamentals of Jurisprudence
- Sects and religions
- Hadith and its Sciences

Broad field: **Arts And Humanities (02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

Religion And Theology (0221)

Specialization
Name

Islamic Culture (022102)

Definition

This specialization aims to provide the student with knowledge about Islamic culture, as it deals with the moderation of Islam, its universality, uniqueness, and its position on different cultures. It discusses civilizational dialogue, westernization, globalization, modernity, Muslims' civilizational delay, and other contemporary issues that need detailed studying and continuous improvement.

Important Courses Under This Specialization

- Sources of Islamic culture
- Intents of sharia
- Social systems in Islam and civilization
- development
- Religious sociology
- Contemporary doctrines

Broad field: **Arts And Humanities (02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

Religion And Theology (0221)

Specialization
Name

The Holy Qur'an And Its Sciences (022103)

Definition

This specialization is concerned with providing the student with the knowledge related to studying the Holy Quran, its sciences, understanding its meanings, reasons for revelation, interpretation and multiplicity of interpretations. It deals with the origins of interpretation, orientations of interpreters, their methods and their evaluation. It deals with miracles in the Holy Quran and Quranic readings.

Other Specializations Included In The Definition

- Quranic Studies
- Interpretation And Quran Sciences
- Quranic Readings
- Readings
- Interpretation And Hadith
- The Holy Quran And Its Sciences
- Interpretation
- Quran And Sunnah
- Holy Quran And Islamic Sciences

Important Courses Under This Specialization

- Sciences of Qur'an
- Quranic readings
- Fundamentals of Interpretation
- Interpretation

Broad field: **Arts And Humanities (02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

Religion And Theology (0221)

Specialization
Name

Prophetic Sunnah And Its Sciences (022104)

Definition

This specialization is concerned with studying the text and chains of the prophetic hadiths attributed to the Prophet, peace and blessings be upon him and the methodology used by the first scholars, to establish the Prophetic Hadith and evaluate the narrators.

Other Specializations Included In The Definition

- Quran And Sunnah
- Hadith And Its Sciences
- Sunnah
- Hadith And Its Sciences
- The Sunnah Of The Prophet And Its Sciences
- Sunnah And Islamic Studies

Important Courses Under This Specialization

- Sunnah books
- The Sciences of Invalidation And Rectification
- Explanations of Sunnah
- Hadith chain study

Broad field: **Arts And Humanities (02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

Religion And Theology (0221)

Specialization
Name

Creed (022105)

Definition

This specialization aims to study the Islamic faith, its pillars, and fundamental and subsidiary issues. It deals with studying the curricula of religion, sects, and various Islamic schools of thought, as well as studying the different intellectual currents, analytically and critically. It also aims to enable the student to address the serious intellectual and ideological challenges on society and to discuss wrong intellectual tendencies, with clear evidence, and sound advice.

Other Specializations Included In The Definition

- Contemporary Doctrines And Creed
- Islamic Creed, Preaching, Guidance And Media
- Sects And Theology
- Creed, Sects And Religions
- Creed And Religions
- Islamic Creed
- Creed And Orientalism
- Contemporary Doctrinal And Intellectual Studies

Important Courses Under This Specialization

- principles of sound Islamic creed
- Contemporary intellectual currents
- Islamic difference and doctrines
- Religions and sects
- Understanding sources and inference Curricula

Broad field: **Arts And Humanities (02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

Religion And Theology (0221)

Specialization
Name

Da'Wa (022106)

Definition

This specialization is concerned with providing the student with the knowledge for studying reference origins of the Islamic religion, concepts, and characteristics of Islamic advocacy and characteristics of callers.

Other Specializations Included In The Definition

- Da'Wa And Hesbah
- Da'Wa And Islamic Culture
- Da'Wa And The Fundamentals Of Religion
- Imamate And Public Speaking
- Islamic Da'Wa
- Intellectual Security And Islamic Guidance

Important Courses Under This Specialization

- The scientific principles of the Da'wa and guidance
- Skills of calling to Allah
- The use of modern technologies in the call to Allah
- Contemporary reformist calls

Broad field: **Arts And Humanities(02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

Religion And Theology (0221)

Specialization
Name

Hesbah (022107)

Definition

This specialization aims to provide the student with the knowledge and skills necessary to study the legal and Sharia aspects of Hesbah and supervisory and their applications in the religious, social and economic aspects. It explores issues and concepts of Sharia Hesbah, judicial and administrative systems that govern the accountability work and the characteristics of people assigned to it.

Other Specializations Included In The Definition

- Hesbah And Control

Important Courses Under This Specialization

- Ethics of Muhtasib
- The duties and rights of Muhtasib
- Ihtsab and control practices in various fields
- Hesbah regulations

Broad field: **Arts And Humanities(02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

Religion And Theology (0221)

Specialization
Name

Fundamentals Of Religion (022108)

Definition

This specialization focuses on studying sources of Islamic religion, its foundations and general rules, focusing on the Holy Qur'an, its interpretation, prophetic Hadith, Islamic faith, the study of contemporary intellectual doctrines, refutation of misconceptions against Islamic faith, or against sources of Islamic legislation.

Other Specializations Included In The Definition

- Comparative Religion

Important Courses Under This Specialization

- The origins and methods of interpretation
- Islamic Creed
- Sciences of hadith, Invalidation And Rectification
- Sects and religions
- Quran interpretation
- Contemporary doctrines

Broad field: **Arts And Humanities(02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

History And Archaeology (0222)

Specialization
Name

Archaeology (022201)

Definition

This specialization seeks to provide the student with the knowledge and skills to study the physical traces that a person left behind for ages. It focuses on training the student to use various tools and devices in surveying, excavating, analyzing, preserving, restoring, documenting, and displaying museums for museum audiences. It is concerned with photography techniques, surveying and mapping to protect cultural heritage, and studying intangible monuments that include customs, traditions, folklore, folkloric celebrations, ceremonies, and handicrafts.

Other Specializations Included In The Definition

- Islamic Archaeology - Architecture
- Islamic Archaeology - Art
- Archeology And Museums
- Archaeology And Tourism
- Archaeology Of The Arabian Peninsula And The Gulf
- Writings
- Arab Kingdoms (1000 Bc-500 Bc)
- Prehistoric Arabian Peninsula
- The Ancient Archaeology
- Archaeology And Heritage Resources Management

Important Courses Under This Specialization

- Methods to identify archaeological sites
- Archaeological works (site identification - excavation - study, analysis, documentation and publication)
- Archeology of Roman and Greek civilization
- Archaeological sites in the Kingdom
- Museums and archives management
- Folklore in the Arabian Peninsula
- Information technology in archeology

Broad field: **Arts And Humanities(02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

History And Archaeology (0222)

Specialization
Name

History (022202)

Definition

This specialization aims to provide the student with the knowledge and skills to study, analyze, and understand events, past eras and developments in history. It addresses the scientific methods of conducting historical research by reviewing a wide range of sources such as books, government, personal documents, films, pictures, ensuring reliability, and analyzing and publishing research results. It is concerned with the historical development of science such as medicine, economics, sociology, arts, and international relations, and present it to professionals to help understand this development.

Other Specializations Included In The Definition

- History Of Islam
- Contemporary History
- Ancient History
- Medieval History
- National History Of The Kingdom Of Saudi Arabia
- History And Civilization
- Islamic History And Civilization
- Modern And Contemporary History
- History Of Arts
- Islamic Medieval History
- European Medieval History

Important Courses Under This Specialization

- Introduction to the science of history
- Contemporary History of the Kingdom
- History of Islamic civilization
- History of Modern Europe
- History of Science and Arts
- Modern and contemporary Middle East

Broad field: **Arts And Humanities(02)**

Narrow field: **Humanities (Except Languages) (022)**

Detailed
Field

Philosophy And Ethics (0223)

Specialization
Name

Philosophy (022301)

Definition

This specialization aims to provide the student with specialized knowledge and skills to explain physical and abstract phenomena and discuss cognitive, ethical, and theoretical foundations of various specialties. It covers sound thinking, tools and methods of using arguments. It also deals with the history of philosophy, logic and controversy since ancient times until now.

Other Specializations Included In The Definition

- Ethics
- Bioethics
- Logic

Important Courses Under This Specialization

- Introduction to thinking skills
- History and doctrines of philosophical schools
- Controversy, debate and dialogue
- Philosophy and principles of sciences introductions
- Old, modern and contemporary philosophical schools
- The origins of Science and knowledge

Broad field: **Arts And Humanities(02)**

Narrow field: **Humanities (Except Languages) (022)**

**Detailed
Field**

**Other Programs In Humanities (Except Languages) Not
Elsewhere Classified (0229)**

**Specialization
Name**

**Other Specializations In Humanities (Except Languages) Not
Elsewhere Classified (022999)**

Definition

The code (Other Specializations In Humanities (Except Languages) Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Humanities except languages” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

**Detailed
Field**

Programs In Languages Not Elsewhere Classified (0230)

**Specialization
Name**

Specialization In Languages Not Further Defined (023000)

Definition

The code of (Specialization In Languages Not Further Defined) is used for any specialization within the narrow field “languages” and has no additional information that help classify it in a specific detailed field.

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

English (General) (023101)

Definition

This specialization aims to provide the student with the knowledge and skills of learning English grammar, structures, linguistics, culture, and literature. It also seeks to provide the student with advanced skills in communication by writing and speaking in English.

Important Courses Under This Specialization

- English grammar and linguistic structures
- Readings in the English language culture
- English Linguistics
- Reading, writing, listening and speaking skills

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

English Linguistics And Its Literature (023102)

Definition

This specialization aims to provide the student with the knowledge and skills of studying English language and literature. It is concerned with forming a scientific background on the linguistics, structures, and grammar of English, in addition to studying the literary heritage of the English-speaking peoples and acquiring advanced skills in written and oral communication using this language.

Other Specializations Included In The Definition

- English Literature
- English Language (Literature)
- Theater Play
- Novel
- Poetry (English)
- American Literature
- Narration Art
- English Linguistics

Important Courses Under This Specialization

- English grammar and linguistic structures
- Literature, criticism, poetry, novel and theater
- Reading, writing, listening and speaking skills
- Theoretical and applied linguistics and phonetics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

English Language And Translation (023103)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, and grammar of English and compare them with Arabic. The student also explores translation theories and the different types of translation in different areas, such as translation in the scientific, human, media, medical, and natural fields.

Important Courses Under This Specialization

- Reading, writing, listening and speaking skills
- Translation theories and sciences
- Computer applications in translation
- Consecutive, simultaneous and at-sight interpreting
- Translations in the scientific and humanitarian fields

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

French Language And Translation (023104)

Definition

This specialization aims to provide the student with the knowledge and skills to study linguistics, structures, and grammar of the French language and compare them with Arabic. The student also explores theories of translation and the different types of translation in different areas, such as translation in the scientific, human, media, medical, and natural fields.

Other Specializations Included In The Definition

- French Language

Important Courses Under This Specialization

- Reading, writing, listening and speaking skills
- Translation theories and sciences
- Computer applications in translation
- Consecutive, simultaneous and at-sight interpreting
- Translations in the scientific and humanitarian fields

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

Turkish Language (023105)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Turkish language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Turkish language.

Other Specializations Included In The Definition

- Turkish Language And Translation

Important Courses Under This Specialization

- Turkish grammar and linguistic structures
- Reading, writing, listening and speaking skills
- Readings in the Chinese language culture
- Turkish Linguistics
- Introduction to style
- Introduction to semantics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

Chinese Language (023106)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Chinese language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Chinese language.

Other Specializations Included In The Definition

- Chinese Language And Translation

Important Courses Under This Specialization

- Chinese grammar and linguistic structures
- Reading, writing, listening and speaking skills
- Readings in the Chinese language culture
- Chinese Linguistics
- Introduction to style
- Introduction to semantics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

Hebrew Language (023107)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Hebrew language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Hebrew language.

Other Specializations Included In The Definition

- Hebrew Language And Translation

Important Courses Under This Specialization

- Hebrew grammar and linguistic structures
- Reading, writing, listening and speaking skills
- Readings in the Hebrew language culture
- Hebrew Linguistics
- Introduction to style
- Introduction to semantics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

Persian Language (023108)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Persian language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Persian language.

Other Specializations Included In The Definition

- Persian Language And Translation

Important Courses Under This Specialization

- Persian grammar and linguistic structures
- Reading, writing, listening and speaking skills
- Readings in the Persian language culture
- Persian Linguistics
- Introduction to style
- Introduction to semantics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

Japanese Language (023109)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Japanese language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Japanese language.

Other Specializations Included In The Definition

- Japanese Language And Translation

Important Courses Under This Specialization

- Japanese grammar and linguistic structures
- Reading, writing, listening and speaking skills
- Readings in the Japanese language culture
- Japanese Linguistics
- Introduction to style
- Introduction to semantics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

Spanish Language (023110)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Spanish language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Spanish language.

Other Specializations Included In The Definition

- Spanish Language And Translation

Important Courses Under This Specialization

- Spanish grammar and linguistic structures
- Reading, writing, listening and speaking skills
- Readings in the Spanish language culture
- Spanish Linguistics
- Introduction to style
- Introduction to semantics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

German Language (023111)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the German language. It also seeks to provide the student with advanced communication skills in writing and speaking in the German language.

Other Specializations Included In The Definition

- German Language And Translation

Important Courses Under This Specialization

- German grammar and linguistic structures
- Reading, writing, listening and speaking skills
- Readings in the German language culture
- German Linguistics
- Introduction to style
- Introduction to semantics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

Russian Language (023112)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Russian language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Russian language.

Other Specializations Included In The Definition

- Russian Language And Translation

Important Courses Under This Specialization

- Russian grammar and linguistic structures
- Reading, writing, listening and speaking skills
- Readings in the Russian language culture
- Russian Linguistics
- Introduction to style
- Introduction to semantics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

Linguistic Studies (023113)

Definition

This specialization aims to provide the student with the knowledge and skills to study human languages in general, their characteristics, structures, phonetics, similarities and differences. Besides, it aims to provide an understanding of the origins and development of languages and their psychological, social, cultural and legal aspects.

Other Specializations Included In The Definition

- Languages And Literature Of Muslim People
- Foreign Languages
- Psychological Linguistics
- Sociolinguistics

Important Courses Under This Specialization

- Principles of grammatical theory
- Semantics
- Philology
- Linguistics
- Phonetics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

Arabic Language For Non-Native Speakers (023114)

Definition

This specialization aims to provide the student with the knowledge and skills to study the Arabic language, culture, structures, grammar, phonetics, and phonology. It focuses on providing the student with an understanding of Arabic linguistics, Arabic vocabulary, synonyms, and antonyms, and how to use it correctly, and expressively.

Other Specializations Included In The Definition

- Language And Culture
- Developing The Skills Of “Arabic As A Second Language” Teacher
- Language Training

Important Courses Under This Specialization

- Curricula for teaching Arabic to non-native speakers
- Basic language skills (reading, speaking, writing and listening)
- Designing Arabic education programs for non-native speakers
- Applied Linguistics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

Translation (023115)

Definition

This specialization aims to provide the student with the knowledge and skills of translation from a foreign language (English or any other language) to the native language (such as Arabic) and vice versa in the fields of science, humanity and literary translation, whether it is written, at sight, interpretation or consecutive and the ability to understand the spirit of the text, its circumstances and backgrounds before translation. It also focuses on developing different language skills for both languages (SL and TL).

Other Specializations Included In The Definition

- Interpretation

Important Courses Under This Specialization

- basics and principles of translation
- Literary Translation (Poetry, Drama, Novel)
- Language skills (foreign language and target language)
- Translation theories
- Interpretation, consecutive and at sight translation
- Scientific translation

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Language Acquisition (0231)

Specialization
Name

Applied Linguistics (023116)

Definition

This specialization is concerned with providing the student with the knowledge and skills of teaching language as a second language and methods of its acquisition and evaluation. It also deals with methods of curriculum design, development, assessment and preparation of educational aids.

Other Specializations Included In The Definition

- Applied Arabic Linguistics
- Educational Linguistics
- Applied Linguistics

Important Courses Under This Specialization

- Curriculum design and material development
- Second Language Acquisition
- Evaluation and testing
- Technology in language teaching

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Literature And Linguistics (0232)

Specialization
Name

Arabic Morphology And Syntax (023201)

Definition

This specialization is concerned with studying grammar, conditions of the word in terms of syntax, structure and syntactic location. It also deals with studying the morphology of the word pattern and construction. Besides, it provides the student with the ability to analyze words and phrases correctly.

Other Specializations Included In The Definition

- Syntax And Linguistic Studies
- Syntax, Morphology And Linguistics
- Syntax, Morphology And Philology Of Language

Important Courses Under This Specialization

- History of grammar and its terminology
- Morphology
- Grammar
- Grammar schools
- Syntactic and Morphological Research

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Literature And Linguistics (0232)

Specialization
Name

Literature, Criticism And Rhetoric (023202)

Definition

This specialization is concerned with studying the history of literature, poetry and prose till the modern era. It deals with the characteristics of literature of each period, the factors that affected it, the most prominent trends and figures, along with ancient and modern literary criticism, methods of analyzing and criticizing discourse, eloquence, understanding, analyzing and evaluating texts.

Other Specializations Included In The Definition

- Literature
- Ancient Literature
- Literature Studies
- Literature And Criticism
- Literature And Cultural Studies
- Poetry (Arabic)
- Rhetoric And Criticism
- Rhetoric, Criticism And Islamic Literature Method
- Literature And Critical Studies
- Literature And Rhetoric
- Literary And Rhetorical Studies
- Comparative Literature
- Criticism

Important Courses Under This Specialization

- Literature theory
- Rhetoric
- Semantics.
- Modern criticism
- Novel Science
- Ancient and modern literature

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Literature And Linguistics (0232)

Specialization
Name

Arabic Language And Literature (023203)

Definition

This specialization is concerned with the study of the Arabic language in linguistics, grammar, morphology, literature, rhetoric and criticism. It also focuses on providing the student with language skills, which enable him to master reading, writing, speaking and research.

Other Specializations Included In The Definition

- Arabic Language

Important Courses Under This Specialization

- Arabic Morphology and Syntax
- Rhetoric and criticism
- Comparative and Saudi literature
- language skills
- Linguistics
- Syntax

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Literature And Linguistics (0232)

Specialization
Name

Arabic Linguistics (023204)

Definition

This specialization aims to provide the student with the knowledge and skills necessary to study the Arabic language in terms of its origin, dialects, words, sounds, and the development of vocabulary, issues and ways of learning and teaching it. It also deals with Arabic writing, its genesis, evolution and development of symbols.

Important Courses Under This Specialization

- Linguistics
- Dictionaries
- Linguistic Research Methods
- Comparative Philology
- Phonetics

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Literature And Linguistics (0232)

Specialization
Name

Computational Linguistics (023205)

Definition

This specialization aims to provide the student with the knowledge and skills of methods of computer processing of language in its written and spoken form, by converting texts, vocabulary and language structures into a digital language understood by the computer, then will be able to memorize, analyze, emulate and interpret to another language automatically.

Other Specializations Included In The Definition

- Computational Linguistics

Important Courses Under This Specialization

- Computer programming science
- Statistics and probability
- Computer Phonetics
- Functional grammar
- Characterization (modeling) of the Arabic language

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

**Detailed
Field**

Other Programs In Languages Not Elsewhere Classified (0239)

**Specialization
Name**

Italian Language (023901)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Italian language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Italian language.

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Other Programs In Languages Not Elsewhere Classified (0239)

Specialization
Name

Bengali Language (023902)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Bengali language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Bengali language.

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Other Programs In Languages Not Elsewhere Classified (0239)

Specialization
Name

Punjabi Language (023903)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Punjabi language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Punjabi language.

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

Detailed
Field

Other Programs In Languages Not Elsewhere Classified (0239)

Specialization
Name

Urdu Language (023904)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Urdu language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Urdu language.

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

**Detailed
Field**

Other Programs In Languages Not Elsewhere Classified (0239)

**Specialization
Name**

Pashtu Language (023905)

Definition

This specialization aims to provide the student with the knowledge and skills of studying linguistics, structures, grammar, culture and literature of the Pashtu language. It also seeks to provide the student with advanced communication skills in writing and speaking in the Pashtu language.

Broad field: **Arts And Humanities(02)**

Narrow field: **Languages (023)**

**Detailed
Field**

Other Programs In Languages Not Elsewhere Classified (0239)

**Specialization
Name**

**Other Specializations In Languages Not Elsewhere Classified
(023999)**

Definition

The code (Other Specializations In Languages Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Languages” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Arts And Humanities(02)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Arts And Humanities (028)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Arts And Humanities (0288)

Specialization
Name

Inter-Disciplinary Programs And Qualifications Involving Arts And Humanities (028888)

Definition

The code of “Inter-Disciplinary Programs And Qualifications Involving Arts And Humanities” is used for any Inter-disciplinary programs which most of the teaching time is devoted to “Arts and Humanities” .

Broad field: **Arts And Humanities(02)**

Narrow field: **Other Programs In Arts And Humanities Not Elsewhere Classified (029)**

Detailed
Field

Other Programs in Arts And Humanities Not Elsewhere Classified (0299)

Specialization
Name

Other specializations in Arts And Humanities Not Elsewhere Classified (029999)

Definition

The code (Other specializations in Arts And Humanities Not Elsewhere Classified) is used for any specialization that can be classified within the broad field "Arts and humanities" and has not been classified in a specific narrow or detailed field or elsewhere in the classification.





Field (03)

Social Sciences, Journalism And Information

Social And Behavioral Sciences 031

Journalism And Information 032



Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Programs In Social Sciences, Journalism And Information Not Further Defined (030)**

**Detailed
Field**

Programs In Social Sciences, Journalism And Information Not Further Defined (0300)

**Specialization
Name**

Specialization In Social Sciences, Journalism And Information Not Further Defined (030000)

Definition

The code “Specialization In Social Sciences, Journalism And Information Not Further Defined” is used for any specialization or program belonging to the broad field “Social Sciences, Journalism And Information”, and there is no additional information about it that help classify it in a specific detailed field.

Other Specializations Included In The Definition

- Preparatory Year For Social Sciences

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

**Detailed
Field**

**Programs In Social And Behavioral Sciences Not Further
Defined (0310)**

**Specialization
Name**

**Specialization In Social And Behavioral Sciences Not Further Defined
(031000)**

Definition

The code “Specialization In Social And Behavioral Sciences Not Further Defined” is used for any specialization or program belonging to the narrow field “Social and behavioral sciences” and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Economics (0311)

Specialization
Name

Macroeconomics (031101)

Definition

This specialization aims to study various economic resources, how to manage and develop them, as well as identifying ways to address economic problems, understand developments that may occur in the economy in different circumstances, and understand their social and political effects. It focuses on developing skills of gathering and analyzing information and statistics and building economic models about general (macro) economic situation at a national or private economy level in a sector (business market, oil, stock market, transportation, tourism, etc.), and work on proposing appropriate solutions.

Other Specializations Included In The Definition

- Money Economics And Financial Institutions
- Applied Economics
- History Of Economics
- Economy Of Minerals And Energy
- Econometrics
- Applied Energy Economics
- Transport And Tourism Economics

Important Courses Under This Specialization

- Economic thought development
- Macro and micro economic analysis
- Mathematical Economics
- Econometrics
- Energy and environmental economics
- Development economics

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Economics (0311)

Specialization
Name

Business Economics (031102)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, organize, and develop work of commercial institutions and business sectors. It focuses on studying a wide range of companies economic issues such as organizational structure, the relationship between companies and their employees, owners of capital, clients, and government, along with studying consumer decisions, production decisions, price and profit analysis, market balance, and other aspects of the business sector.

Other Specializations Included In The Definition

- Economics And Project Management
- Economics And Finance
- Economics And Management
- Economics Of Feasibility Studies

Important Courses Under This Specialization

- Micro Applied Economics
- Mathematical economics and econometrics
- Industrial economics
- Economic feasibility of Projects

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Economics (0311)

Specialization
Name

Islamic Economics (031103)

Definition

This specialization aims to provide the student with essential knowledge about Islamic theory in economics and rules that govern the financial and economic practices of individuals, institutions, and government, according to the Islamic system. It deals with ways the Islamic economic system deals with various economic problems and compares it with capitalist and Marxist economic theories.

Other Specializations Included In The Definition

- Economics And Islamic Banking
- Analysis And Policies Of Islamic Economics

Important Courses Under This Specialization

- Theories and Islamic jurisprudence in financial transactions
- Economic thought among Muslims
- Money economy and Islamic financial institutions
- Asset management and financing for Islamic banking
- Islamic banking services

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Economics (0311)

Specialization
Name

International Economics (031104)

Definition

This specialization aims to provide the student with the knowledge and skills necessary to study global markets and international economic relations and assess domestic and foreign policies on the economic situation of individuals, companies, and countries. It also focuses on the economic aspects of global trade systems, international finance, economic development, and globalization.

Other Specializations Included In The Definition

- International Political Economy

Important Courses Under This Specialization

- Developmental Economics
- Multinationals Companies
- The economics of advanced industrial countries
- International Economic Relations

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Political Sciences And Civics (0312)

Specialization
Name

Political Sciences (031201)

Definition

This specialization aims to provide the student with the knowledge necessary to study political theories, their applications, political systems, international relations, political parties, and public opinion. It aims to increase the ability to explore events and political developments around the world, describing, analyzing, interpreting, forecasting, employing data, investing and interacting in a way that contributes to settling disputes, enhancing international peace and security, enhancing international cooperative relations and achieving goals and common interests of countries.

Other Specializations Included In The Definition

- International Relations
- Public Policy
- International And Regional Organizations
- Civilian-Military Relations
- Homeland Security
- Political History
- Public Policy And Development

Important Courses Under This Specialization

- Political systems
- International Relations
- Political theory
- Political parties and public opinion
- Human rights in conventions and international law
- Theories of contemporary international relations

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Political Sciences And Civics (0312)

Specialization
Name

Strategic Studies (031202)

Definition

This specialization aims to provide the student with the knowledge and skills to study and analyze international relations, political geography, economics, military forces, methods of using psychological warfare, military deception, and building alliances to achieve security and regional and international peace and to achieve common interests among countries.

Other Specializations Included In The Definition

- Strategic, Intelligence Analytical Studies
- Information Strategy And Political War
- Strategic Studies And International Crises
- Gulf Studies

Important Courses Under This Specialization

- Regional Power Strategies
- Contemporary international problems
- Futures studies
- Political geography
- Research methods in strategies and futures

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Political Sciences And Civics (0312)

Specialization
Name

Human Rights (031203)

Definition

This specialization aims to provide the student with the knowledge and skills to study sources and rules of human rights in light of provisions of Islamic Sharia and Saudi regulations derived from them and international law. It also deals with international and national human rights organizations and the role of criminal justice institutions in the Kingdom in protecting human rights.

Other Specializations Included In The Definition

- Criminal Justice And Human Rights
- Civics Education (Nationalism)

Important Courses Under This Specialization

- Human rights theories
- Human rights protection
- Human rights in Islam
- The International Humanitarian Law

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Psychology (0313)

Specialization
Name

Psychology (031301)

Definition

This specialization aims to provide the student with the essential knowledge about the human psyche, its various aspects, types, personal characteristics, disorders, and interpretation of human behavior. It also seeks to empower the student with essential psychological skills such as providing psychological services in areas of vocational and educational guidance, assessing the situation, applying psychological tests, psychological treatment, performing psychological research and caring for psychological aspects in work, in terms of achieving job satisfaction and mental health for workers.

Other Specializations Included In The Definition

- Criminal Psychology
- Analytic Psychology
- Cyber Psychology
- Applied Psychology
- Mental Health
- Industrial And Organizational Psychology
- Statistics And Research
- Psychology Of Crises
- Psychology Of Talent And Creativity

Important Courses Under This Specialization

- Theories and schools of psychology
- General psychology
- Mental health and society
- Principles of psychological statistics
- Experimental psychology
- Psychological tests and measurements

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Psychology (0313)

Specialization
Name

Counseling Psychology (031302)

Definition

This specialization aims to provide the student with the knowledge and skills to study psychological and behavioral problems experienced by individuals in various aspects of their lives (study, work, family, and marriage). It also enables the student to understand and interpret individual psychological aspects and how to form his behavior. Besides, it seeks to acquire the student evaluation skills and techniques, treatment strategies and methods, and needed competencies to provide guidance according to approved ethical and professional rules.

Other Specializations Included In The Definition

- Educational Counseling And Guidance
- Psychological Guidance And Counseling
- Psychological And Educational Counseling
- Psychological Guidance
- Counseling And Mental Health
- Educational And Career Guidance
- Family And Marriage Psychology
- Family Counselling And Reformation
- Students Guidance And Counseling

Important Courses Under This Specialization

- Counseling theories and applications
- Principles of family and marital counseling
- Assessment and diagnosis in psychological counseling
- Psychological counseling and guidance techniques

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Psychology (0313)

Specialization
Name

Clinical Psychology (031303)

Definition

This specialization aims to provide the student with the essential knowledge and skills to study mental disorders, their types, and causes, methods of modern psychotherapy, and the design of psychological programs to prevent mental disorders. It also enables the student to conduct a clinical interview, apply psychological tests, and provide psychological treatment in various schools and forms for all groups of society.

Other Specializations Included In The Definition

- Clinical Psychology
- Clinical Psychology
- Psychotherapy
- Clinical Child Psychology
- Psychological Services For Special
- Needs People
- Clinical Neuropsychology
- Therapeutic Psychology
- Neurological And Clinical Psychology

Important Courses Under This Specialization

- Mental health
- Schools and theories of psychotherapy (cognitive-behavior therapy, analytical therapy)
- Ethics of professional practice in psychotherapy
- Assessment methods and criteria for clinical psychiatric diagnosis
- Neurological and clinical psychology

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Psychology (0313)

Specialization
Name

Educational Psychology (031304)

Definition

This specialization aims to study human behavior in various educational situations and their applications in educational aspects, theories, concepts, and learning methods at all levels of education. It also deals with building psychological tests such as intelligence and personality types tests, abilities, prevention and treatment of educational, behavioral, and mental problems of children and adolescents, identifying individual differences, and dealing with problems of people with learning difficulties and those with developmental problems.

Other Specializations Included In The Definition

- Educational And Vocational Psychology
- Learning And Individual Differences
- Learning Psychology

Important Courses Under This Specialization

- Learning and teaching theories
- Teaching methods
- Childhood and adolescence problems
- Differential psychology
- Behavior modification and behavioral disorders

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Psychology (0313)

Specialization
Name

School Psychology (031305)

Definition

This specialization aims to provide the student with the knowledge and skills to evaluate the child's educational, psychological, and behavioral aspects, understand the root causes of behavior, and its impact on learning, and develop a diagnosis for it. It seeks to prepare and qualify students to use the principles of psychology, its curricula, procedures, and methods in addressing school problems. Besides, this specialization is concerned with studying human relationships within educational institutions, training in behavioral and educational assessment skills, methods of intervention, prevention, counseling, and building treatment and preventive programs for children and their families; to enhance their learning abilities and to overcome the academic difficulties they may encounter.

Other Specializations Included In The Definition

- School Psychology And Educational Psychology
- School Counseling
- School Guidance And Counseling

Important Courses Under This Specialization

- Behavioral disorders for children and adolescence
- Psychological tests (tests of intelligence, abilities, interests, and directions)
- Behavior analysis and modification
- Learning theories
- School counseling (theory and practice)
- Psychotherapy and Counseling Methods

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Psychology (0313)

Specialization
Name

Developmental Psychology (031306)

Definition

This specialization aims to provide the student with the knowledge and skills necessary to study development and growth during various age stages and psychological, behavioral, physical, emotional, cognitive, and social growth changes. It also examines the study of the characteristics and problems of each stage and design of treatment programs and plans to deal with them.

Other Specializations Included In The Definition

- Evolutionary Psychology
- Developmental Psychology Through Ages
- Developmental Psychology
- Formative Psychology

Important Courses Under This Specialization

- Human growth problems and ways to deal with them
- Adolescent psychology
- Psychology of elderly
- Developmental disorders

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Psychology (0313)

Specialization
Name

Personality And Social Psychology (031307)

Definition

This specialization aims to provide the student with the essential knowledge about an individual's behavior, feelings, and thoughts as a result of being in a group and exposed to social stimuli and situations. It covers social and personality theories, patterns of social interaction, and reciprocal influences between individuals, such as the relationship between parents and children within the family, and the interaction between teachers and learners, and conducting applied studies such as studying public opinion, attitudes, characteristics of personalities, their social effects, knowing social influences and problems, and being able to deal with them.

Other Specializations Included In The Definition

- Social And Industrial Psychology

Important Courses Under This Specialization

- Personality theories
- Human personality Assessment
- Social behavior and social relationships
- Psychology of influence and social relationships
- Dynamics of social relationships

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Psychology (0313)

Specialization
Name

Measurement And Evaluation (031308)

Definition

This specialization aims to provide the student with the knowledge and skills to plan and build tests and measurements, starting from collecting data, recording, analyzing, interpreting their results, and benefiting from them while adhering to ethical standards for measurement and evaluation processes. Besides, it deals with concepts, methods, tools, and basic activities in measurement and evaluation, and its importance in addressing many educational and non-educational problems, and developing solutions to them.

Other Specializations Included In The Definition

- Tests And Measurements

Important Courses Under This Specialization

- Principles of measurement and evaluation
- Psychological tests and measures
- localization Tests
- Methods of personality measurement
- Inferential, descriptive and applied statistics
- Research methods in education and psychology (qualitative and procedural search, etc.)

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Sociology And Cultural Studies (0314)

Specialization
Name

Sociology (031401)

Definition

This specialization aims to provide the student with the essential knowledge to plan and conduct studies on social issues and phenomena such as crime, poverty, youth, population growth, immigration, and others. It also studies, analyzing, and interpreting human behavior in its relationship with its environment, with society, and mechanisms for dealing with emerging social issues and challenges, to contribute effectively to community service and achieve sustainable development plans.

Other Specializations Included In The Definition

- Sociology And Social Work
- Educational And Family Sociology
- Sociology In Medical And Psychological Field
- Social Studies
- Social Development
- Social Upbringing
- Culture And Social Upbringing

Important Courses Under This Specialization

- Principles of Sociology
- Social theories
- The Methodology of Social Research
- Studies about the Saudi Arabian community

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Sociology And Cultural Studies (0314)

Specialization
Name

Anthropology (031402)

Definition

This specialization aims to provide the student with the essential knowledge to study civil, social, natural and behavioral aspects of humans and to predict human's future based on his development through history. Besides, it studied Human races, strains, environment, social and economic aspects, and learning about the characteristics of each culture, including ideas, beliefs, and social behaviors, in addition to enabling the student to participate in specialized research in the field of human study in ancient and modern times.

Important Courses Under This Specialization

- Introduction to Anthropology
- Social construction and development
- The science of describing peoples
- The human races

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Sociology And Cultural Studies (0314)

Specialization
Name

Human Geography (031403)

Definition

This specialization aims to provide the student with the knowledge necessary to understand and analyze models and processes that shape human interaction with the natural environment. It focuses on the causes and consequences of the spatial distribution of human activities on Earth. It also examines the distribution of human societies and the mutual influence of their natural environments, such as the distribution of population and urban or rural-urban patterns. It also includes studying the impact of the local environment on people's daily lives and political, economic, and industrial aspects and patterns of urbanization.

Other Specializations Included In The Definition

- Geography Of Urbanism And Population
- Geopolitics
- Human Settlement And Its Issues
- Population Studies And Sustainable Development
- Population And Development
- Family And Population
- Urbanism And Urban Planning
- Biogeography

Important Courses Under This Specialization

- Geography of Population and Urbanism
- Economic geography (Agriculture and Industry)
- Geography of cities.
- Regional geography.

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Sociology And Cultural Studies (0314)

Specialization
Name

Women's Studies (031404)

Definition

This specialization aims to provide the student with the knowledge to study women's issues, needs, and ways of empowering them and enhancing their participation in public life. This major explores political affairs, society, media, and history from a female perspective. It also deals with planning, developing, and evaluating developmental, legal, health and educational aspects and basic life requirements related to women at local and international levels.

Other Specializations Included In The Definition

- Women health and reproductive issues
- Women and legal aspects
- Women in Islamic culture
- Family and childhood sociology
- Sociology of law and human rights
- Social work in family and childhood

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

Detailed
Field

Sociology And Cultural Studies (0314)

Specialization
Name

Criminology (031405)

Definition

This specialization aims to provide the student with the knowledge and skills to study the behavior of criminals, causes of crime, and its affecting factors on an individual and societal level. It also examines the study of how to prevent crime, factors for reducing its rates, how to rehabilitate criminals, and types of penalties.

Other Specializations Included In The Definition

- Deviation And Crime
- Criminology And Forensic Sciences

Important Courses Under This Specialization

- Crime explaining theories
- Criminal behavior analysis
- Juvenile delinquency
- Punishment and penalties
- Treatment and rehabilitation of criminals
- Punitive and correctional institutions

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Social And Behavioral Sciences (031)**

**Detailed
Field**

**Other Programs In Social And Behavioral Sciences Not
Elsewhere Classified (0319)**

**Specialization
Name**

**Other Specializations In Social And Behavioral Sciences Not
Elsewhere Classified (031999)**

Definition

The code (Other Specializations In Social And Behavioral Sciences Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “social and behavioral sciences” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Journalism And Information (032)**

**Detailed
Field**

**Programs In Journalism And Information Not Further Defined
(0320)**

**Specialization
Name**

**Specialization In Journalism And Information Not Further Defined
(032000)**

Definition

The code (Specialization In Journalism And Information Not Further Defined) is used for any specialization or program within the narrow field “Journalism and information” and has no additional information that help classify it in a specific detailed field.

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Journalism And Information (032)**

Detailed
Field

Journalism And Reporting (0321)

Specialization
Name

Media (032101)

Definition

This specialization aims to provide the student with the knowledge and skills of press work, designing and preparing newspapers, electronic newsletters and visual presentations. It also deals with all media arts such as stories, reports, articles, investigation, talk and photo press, writing skills, social communication, ability to reach masses and persuasion.

Other Specializations Included In The Definition

- Journalism
- Journalism And Media
- Journalism And Electronic Editing
- Communication And Media
- Communication And Media Technology
- Mass Communication
- Audio And Visual Media
- Media And Society
- Health Media
- Sports Media
- Educational Media
- Political Media

Important Courses Under This Specialization

- Communication theories
- News in media
- Public opinion and influence
- Arab and international news agencies

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Journalism And Information (032)**

Detailed
Field

Journalism And Reporting (0321)

Specialization
Name

Electronic Mass Media (032102)

Definition

This specialization aims to provide the student with the knowledge necessary to study nature, characteristics, and types of electronic media, audiences, software, and how to analyze content. It deals with forms of electronic media such as; multimedia, cross-text, interactive TV, digital cinema, electronic advertising, and public opinion polls on the Internet.

Other Specializations Included In The Definition

- Digital Media
- Electronic Journalism
- Interactive Media
- Communication And Digital Media

Important Courses Under This Specialization

- Online press editing
- Sources of information and databases
- Web design
- Website management
- Multimedia preparation and production
- Visual graphic design

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Journalism And Information (032)**

Detailed
Field

Library, Information And Archival Studies (0322)

Specialization
Name

Library And Information Sciences (032201)

Definition

This specialization aims to provide the student with the scientific principles for managing all kinds of libraries, information centers, and institutions, and organizing their contents from traditional, electronic, and multimedia sources. It also deals with library services, the information provided to the visitors directly or remotely, and how to use technology applications to develop and organize these services' performance.

Other Specializations Included In The Definition

- Information Science
- Knowledge Management
- Information Management
- Library Science

Important Courses Under This Specialization

- Introduction to library and information science
- Management of libraries and information centers
- Electronic / digital information services
- Organization of information
- Information policies
- Technical procedures in libraries and information centers

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Journalism And Information (032)**

Detailed
Field

Library, Information And Archival Studies (0322)

Specialization
Name

Records Management And Electronic Keeping (032202)

Definition

This specialization aims to provide the student with the knowledge and skills to manage and organize archives, records, and documents, both traditional and electronic. It also addresses applying the concept of content management, focusing on recordings, and adapting modern technology and archiving systems, within the framework of integrated enterprise.

Important Courses Under This Specialization

- Introduction to documents and archives
- Management of documents and archives centers
- Specialized and specific archives
- Maintenance and restoration of documents
- Content Management Systems
- Metadata and coding

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Journalism And Information (032)**

Detailed
Field

Library, Information And Archival Studies (0322)

Specialization
Name

Information Sources Management And Related Services (032203)

Definition

This specialization aims to provide the student with the knowledge and skills to organize and deliver information services and their sources. And make it available to customers. It is also interested in participating in building and developing information groups and centers and employing information technologies in information institutions programs and activities.

Other Specializations Included In The Definition

- Information Services

Important Courses Under This Specialization

- Information storage and retrieval
- Information Resources Management
- Information systems and managing them
- Networks and data banks

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Journalism And Information (032)**

**Detailed
Field**

**Other Programs In Journalism And Information Not Elsewhere
Classified (0329)**

**Specialization
Name**

**Other Specializations In Journalism And Information Not Elsewhere
Classified (032999)**

Definition

The code (Other Specializations in Journalism and Information Not Elsewhere Classified) is used for any specialization that can be classified in narrow field “Journalism and information” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Social Sciences, Journalism And Information (038)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Social Sciences, Journalism And Information (0388)

Specialization
Name

Inter-Disciplinary Programs And Qualifications Involving Social Sciences, Journalism And Information (038888)

Definition

The code of “Inter-Disciplinary Programs And Qualifications Involving Social Sciences, Journalism And Information” is used in for any Inter-disciplinary programs which most of the teaching time is devoted to “social sciences, journalism, and information”

Broad field: **Social Sciences, Journalism And Information (03)**

Narrow field: **Other Programs In Social Sciences, Journalism And Information Not Elsewhere Classified (039)**

**Detailed
Field**

Other Programs In Social Sciences, Journalism And Information Not Elsewhere Classified (0399)

**Specialization
Name**

Other Specializations In Social Sciences, Journalism And Information Not Elsewhere Classified (039999)

Definition

The code (Other Specializations In Social Sciences, Journalism And Information Not Elsewhere Classified) is used for any specialization that can be classified within the broad field “Social Sciences, Journalism And Information” and has not been classified in a specific narrow or detailed field or elsewhere in the classification.



Field (04)

Business, Administration And Law

Business And Administration 041

Law 042



Broad field: **Business, Administration And Law (04)**

Narrow field: **Programs In Business, Administration And Law Not Further Defined (040)**

Detailed
Field

Programs In Business, Administration And Law Not Further Defined (0400)

Specialization
Name

Specialization In Business, Administration And Law Not Further Defined (040000)

Definition

The code “Specialization In Business, Administration And Law Not Further Defined” is used for any specialization or program belonging to the broad field “Business, Administration And Law”, and there is no additional information about it that help classify it in a specific detailed field.

Other Specializations Included In The Definition

- Business Management (General)
- Preparatory Year For Management And Financial Sciences
- Preparatory Year For The Faculty Of Economics And Islamic Finance

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

**Detailed
Field**

**Programs In Business And Administration Not Further Defined
(0410)**

**Specialization
Name**

**Specialization In Business And Administration Not Further Defined
(041000)**

Definition

The code “Specialization In Business And Administration Not Further Defined” is used for any specialization or program belonging to the narrow field “ Business And Administration”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Accounting And Taxation (0411)

Specialization
Name

Accounting (041101)

Definition

This specialization aims to provide the student with the essential knowledge and skills to prove transactions, measure and record financial events, financial reporting, Zakat, and tax declarations according to acceptable concepts and standards for different establishments in various profitable, non-profit and governmental sectors. It also aims to provide the student with the appropriate knowledge and skills to use and analyze financial information in decision-making processes related to the management, supervision or dealing of a facility. Moreover, it provides the student with proper knowledge and skills to verify financial information's reliability through internal and external auditing.

Other Specializations Included In The Definition

- Commercial Accounting
- Financial Accounting
- Applied Financial Accounting
- Banking Accounting
- Professional Accounting
- Accounting And Finance
- Bookkeeping
- Managerial Accounting
- Cost Accounting
- Automatic Accounting
- Accounting Technology And Financial Management
- Government Finance
- Public Finance
- Public Sector Finance
- Taxation
- Zakat And Tax
- Internal Audit
- Audit
- Shariah Audit
- General Budget Governance

Important Courses Under This Specialization

- principles of Accounting
- Accounting in Governmental and Non-profit organizations
- Intermediate accounting
- Management accounting and cost accounting
- Advanced Accounting
- Accounting of Zakat and Taxes
- Auditing

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Accounting And Taxation (0411)

Specialization
Name

Accounting Information Systems (041102)

Definition

This specialization aims to provide the student with the essential knowledge and skills about the accounting business's information systems, their types, design methods, operation, and evaluation. It also addresses accounting file management systems, database management, control and protection methods of accounting information systems.

Important Courses Under This Specialization

- Principles of accounting information systems
- Principles of Databases
- Control, security and protection systems for accounting information systems
- Decision support systems

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Finance, Banking And Insurance (0412)

Specialization
Name

Financial Management (041201)

Definition

This specialization aims to provide the student with the knowledge and skills to prepare, review, analyze financial statements of companies, and write financial reports that help make administrative and investment decisions. It also deals with money movement, investment, and finance within major companies, banks, financial markets, and stocks, the practical methods of financial management in a company, such as: how to invest better, employ, and increase its capital.

Other Specializations Included In The Definition

- Financial And Banking Management
- Financial And Banking Sciences
- Financial Sciences
- Corporate Finance
- Financial Management And Banking
- Planning And Budgeting

Important Courses Under This Specialization

- Financial Analysis
- Financial management in joint stock companies and small enterprises
- International financial management
- Markets and Financial Institutions
- Financial engineering
- Investment analysis

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Finance, Banking And Insurance (0412)

Specialization
Name

Islamic Financial Management (041202)

Definition

This specialization aims to study and analyze all financial and banking activities and operations carried out by following the provisions of Islamic Sharia. It provides the student with the knowledge and skills to design and develop Islamic financial products and identify Islamic standards that should be followed in investment, finance of companies and individuals, and various banking activities. Moreover, it aims to study effective methods for applying Sharia supervisory systems to financial business in various institutions.

Other Specializations Included In The Definition

- Islamic Banking And Finance Studies
- Islamic Banking
- Islamic Finance

Important Courses Under This Specialization

- Islamic economic system
- Islamic banking system
- Islamic banking services
- Islamic financial instruments
- Asset and finance management for Islamic banking
- Islamic financial products and innovations

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Finance, Banking And Insurance (0412)

Specialization
Name

Finance And Investment Management (041203)

Definition

This specialization aims to provide the student with the knowledge and skills to study types of investment, its essential concepts, methods of analysis, measuring and estimating its related returns and financing costs in the short, medium and long term; and how to make investment decisions. It also aims to study the funding and operational risks facing companies and how to deal with them.

Other Specializations Included In The Definition

- Finance Management
- Investment
- Finance
- International Finance
- Finance And Investment
- Finance And Banking Business
- Finance And Insurance
- Finance And Banking Institutions
- Trade And Finance
- International Trade And Finance
- Finance And Investment
- Project Strategy And Budgeting

Important Courses Under This Specialization

- Principles of finance and investment
- Financial Accounting
- Insurance and Risk Management
- Corporate evaluation and Financing
- Financial markets and portfolio management

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Finance, Banking And Insurance (0412)

Specialization
Name

Banking And Financial Markets Management (041204)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, organize, and direct control and follow-up work for all financial activities in banks and financial markets. It also seeks to introduce the essence of financial markets, their types, functions, evaluation, and investment methods in them, and how to evaluate securities and trade with it.

Other Specializations Included In The Definition

- Banking And Stock Markets Management
- Banking Business
- Banking And Finance
- Banking Sciences
- Banking Business
- Bank Transactions

Important Courses Under This Specialization

- Banking, finance forms and investment in banks
- Saudi financial market and international financial institutions
- Financial instrument
- Computer Applications in the field of finance and banking
- International financial and banking operations

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Finance, Banking And Insurance (0412)

Specialization
Name

Risk Management And Insurance (041205)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, organize, direct, manage, and follow-up all activities related to the insurance sector, its types, administrative, legal, financial, and marketing aspects, and the extent of its economic feasibility. It also deals with the study, analysis, evaluation, and management risks to which any project or establishment may be exposed by controlling it, reducing it to the lowest possible level, and bearing the consequences.

Other Specializations Included In The Definition

- Insurance
- Health Insurance
- Insurance Business
- Risks And Insurance
- Insurance Business Management
- Cooperative Insurance
- Marine And Port Insurance
- Professional Insurance

Important Courses Under This Specialization

- Principles of insurance and risk management
- Marketing insurance products
- Analysis of credit risk
- Islamic insurance contracts
- Insurance systems
- Property insurance

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Public Administration (041301)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, manage and organize resources and human capabilities in all that's related to management at the governmental level and state agencies in local and central scope. It also aims to enable the student to manufacture, analyze, develop, and evaluate practices and procedures, government policies, and decision-making. It also addresses the financial aspect through studying the general budget, ways of financing business and government projects, in addition to human resources, improving performance, and developing governmental organizations to achieve government leadership.

Other Specializations Included In The Definition

- Customs Management
- Security Administrative Leadership
- Civil Status Laws And Procedures

Important Courses Under This Specialization

- Management of public institutions
- Local Planning and Development Administration
- Management and evaluation of government projects
- Human resources management and civil service systems
- Principles of budget and public finance

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Human Resources (041302)

Definition

This specialization aims to provide the student with administrative and applied concepts that enable him to plan, manage, and organize resources and human capabilities in various organizations. This specialization addresses multiple aspects of the workforce, such as employment, training and professional development, performance appraisal, pay systems, incentives, and compensation. It is also concerned with the legal aspects of the employee, its protection, and its defense.

Other Specializations Included In The Definition

- Management And Organization Of Human Resources
- Human Resources Development
- Talent Management
- Human Resources Management

Important Courses Under This Specialization

- Employment and Selection planning
- Training and Development
- Leadership development and succession
- Payroll and compensation management
- Organizational Behavior

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Business Management (041303)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, organize, direct, follow-up, and manage activities and tasks undertaken by organizations of all kinds to efficiently and effectively reach their goals. This specialization addresses aspects of marketing, management, human resource management, accounting, finance, as well as international trade for projects and organizations of all kinds.

Other Specializations Included In The Definition

- Management
- Management Sciences
- Operations Management
- Operations And Quality Management
- Facilities Management
- Small Business Management
- Innovation And Entrepreneurship
- Creativity And Entrepreneurship
- Business Management And Financial Services
- Entrepreneurship
- Technology Management
- Management And Financial Sciences
- Judicial Management
- Executive Master Of Business Administration (EMBA)

Important Courses Under This Specialization

- Operations Management
- Principles of Marketing
- Human Resources
- Financial accounting and finance
- Management strategies
- Supply Chain and Logistics Operations Management

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Management Information System (041304)

Definition

This specialization aims to provide the student with the knowledge and skills to analyze, develop and evaluate software solutions and different IT systems to serve departments of commercial institutions in all financial, commercial, administrative, and accounting operations. It seeks to enable the student to play the role of a link between workers at different administrative levels, in the commercial organization, and among information technology specialists to provide updated information to the organization managers; to help them make the appropriate decision at the right time.

Other Specializations Included In The Definition

- Financial Information System
- Information Management System
- Operations And Information Management
- Business Information Systems

Important Courses Under This Specialization

- Business systems analysis and design
- Accounting Information Systems
- Simulations in Management
- Decision support and expert systems
- Development of database applications

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Health Services Management (041305)

Definition

This specialization aims to provide the student with the knowledge and skills that enable him to plan, organize, direct, follow-up, and manage all activities and tasks undertaken by different health institutions to efficiently and effectively reach their goals. It covers the analysis, development, and evaluation of work procedures in health institutions, quality systems, insurance, logistics, customer experience, and safety. It also deals with the marketing, administrative, human resource management, and accounting aspects, as well as the legal aspects of health services.

Other Specializations Included In The Definition

- Health Institutions Management
- Hospital Management
- Health Management
- Health Services And Hospital Management
- Health Quality & Systems Management
- Health Facility Management
- Health Policies
- Healthcare Quality
- Healthcare Quality And Patients Safety
- Health Policies And Management
- Nursing Management
- Disasters And Emergency Nursing Management

Important Courses Under This Specialization

- Health Care System
- Crisis and risk management in health care
- Health care insurance
- Operations management in health care
- Health services economics
- Quality management in health services

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Health Information Management (041306)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, collect, store, retrieve, transfer, renew, and protect health information, as well as dealing with the advanced technologies that can be used in dealing with patients' records and their data.

Other Specializations Included In The Definition

- Medical Records
- Medical Records Systems

Important Courses Under This Specialization

- Medical Records Sciences
- Medical information systems
- Biostatistics
- Documentation in medical records

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Warehouse Management (041307)

Definition

This specialization aims to provide the student with the knowledge and skills to store, preserve, receive, sort, deliver, record stored goods, their retrieving, and knowing what they are missing. It also aims to enable the student to acquire warehouse management skills through the optimal use of its space and ensure the quality of storage, according to approved standards and ensuring its workers' safety.

Important Courses Under This Specialization

- Storage methods in warehouses
- Accounting in warehouses
- IT in warehouses
- Storage operations management
- Total Quality in warehouses
- Follow-up and warehouse reports

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Managing Of Hajj (Pilgrimage) And Umrah (041308)

Definition

This specialization aims to provide the student with the knowledge and skills that enable him to plan, organize, direct, follow-up, and manage all activities and tasks related to services provided to pilgrims and visitors to the Sacred House of Allah. It also addresses the marketing, operational, and organizational aspects of Hajj and Umrah trips in all their stages to ensure the service's quality. It is also concerned with the elements of security and safety, crowd management, and studying the potential risks that pilgrims may face.

Important Courses Under This Specialization

- Principles of marketing and sales
- Laws and procedures governing Hajj and Umrah trips
- Organizing and managing crowds
- Risks and influences in religious activities
- Management of accommodation services for pilgrims
- Management of the Tawafa institutions

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

International Business Management (041309)

Definition

This specialization aims to provide the student with the knowledge and skills that enable him to plan, organize, direct, follow-up, and manage all international institutions' activities and tasks to efficiently and effectively reach their goals. It also addresses the operational, marketing, and human resources aspects in global markets. Moreover, it focuses on the legal, economic, and financial aspects, understanding international working environments, and studying challenges that intercept with business conduct in the global environment.

Important Courses Under This Specialization

- International trade law
- International economy.
- E-commerce
- International Marketing
- Management in a multicultural environment
- Business ethics

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Aviation Management (041310)

Definition

This specialization aims to provide the student with the knowledge and skills that enable him to plan, organize, direct, follow-up, and manage all activities and tasks in the field of air transport. It seeks to empower the student in security, safety, air supply, freight business, airport operations management, laws, and procedures that regulate the air transport industry at a global and a local level.

Other Specializations Included In The Definition

- Air Transportation Services
- Aviation Operations
- Quality Management

Important Courses Under This Specialization

- Principles of management and accounting
- Civil aviation laws and regulations
- Aviation safety and security
- Air freight management
- Airport management
- Airport Operations Management

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Project Management (041311)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, organize, direct, follow-up, and manage all activities and tasks related to a specific project. It is concerned with organizing and managing financial, material and human resources, time management, cost control, quality assurance, and facing various obstacles and challenges to complete the project on time within a specified budget.

Other Specializations Included In The Definition

- Economics & Project Management

Important Courses Under This Specialization

- Project financing
- Projects risk management
- Economic viability of projects
- Cost Accounting
- Quality management in projects
- Logistics management

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Quality Management (041312)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, organize, direct, and follow-up activities related to improving the quality of practices in different private and public institutions such as medical, commercial, educational, engineering sectors, factories, etc. It studies the establishing, developing comprehensive quality systems and policies, measuring performance in different organizations, and training workers to reach the best possible performance at the lowest possible cost.

Important Courses Under This Specialization

- Concepts and models of work in the field of comprehensive quality
- Tools and stages of applying comprehensive quality
- Measuring customer satisfaction
- Operations Administration
- Quality in the health field

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Real Estate Management And Development (041313)

Definition

This specialization aims to provide the student with the knowledge and skills that enable him to plan, organize, direct, follow-up, and manage all activities and tasks related to land development, commercial and residential buildings. It also deals with marketing aspects, preparation of economic feasibility studies, methods of obtaining financing, identifying potential risks, and identifying legislation and laws related to developing all kinds of real estate.

Other Specializations Included In The Definition

- Property Management

Important Courses Under This Specialization

- Properties management
- Economic feasibility and property valuation
- Real Estate Marketing
- Principles of Real Estate Investment
- Real estate financing

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Supply Chain Management (041314)

Definition

This specialization aims to provide the student with the knowledge and skills that enable him to plan, organize, direct, follow-up, and manage all activities and tasks related to the organization's supplies. These operations include the purchase of raw materials, delivery to the factory, product transportation, storage, distribution to sales outlets, or delivery to customers. It also deals with communication processes and coordination of suppliers, brokers, service providers, clients.

Other Specializations Included In The Definition

- Business Supply Management
- Common Supply Operations
- Supply Chain Management
- Supply Management
- Logistics And Supply Chain Management
- Logistics
- Logistics Management

Important Courses Under This Specialization

- Principles of supply chain management
- Principles of commercial law
- Distribution and transfer operations
- Procurement and supply management

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Industrial Management (041315)

Definition

This specialization aims to provide the student with the knowledge and skills necessary for planning, organizing, following up, and evaluating various industrial processes; working on defining project policies in general, coordinating between its main elements: finance, production, and distribution; approval of the organizational structure and final oversight of implementation work. It deals with the study of operational aspects, supply chain management, and product quality control to achieve the production goal, with minimal costs and resources. It also includes elements of human resources, such as designing work systems, wages, etc.

Other Specializations Included In The Definition

- Food Industries Management
- Material Management Technology
- Industrial Management Sciences
- Management Systems And Industrial Engineering
- Industrial Organization

Important Courses Under This Specialization

- Production planning and control
- Warehouse management and stock control
- Industrial Quality Management
- Project management
- Principles of Accounting
- Raw Materials Administration

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Food Services Management (041316)

Definition

This specialization aims to provide the student with the knowledge and skills that enable him to plan, organize, follow-up, and implement food and drink services offered to individuals and groups in residential, health, educational and correctional facilities. It also seeks to enable the student to supervise workers in nutrition and cooking and to ensure achieving the approved standards in hygiene, food quality, and adherence to the dietitians' instructions in terms of food quality, caloric intake, etc.

Important Courses Under This Specialization

- Management and operation of restaurants
- Supervising banquets and buffets
- Health, safety and quality control in restaurants
- Principles of marketing
- Principles of Accounting and budgeting

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Educational Leadership (041317)

Definition

This specialization aims to introduce the student to the concept of educational leadership, its goals, importance, and theories. It also addresses ways to prepare and qualify distinguished, highly qualified cadres to work in various fields and educational departments in both the public and private sectors. It also focuses on renewing the educational process to meet the future's needs and finding solutions to leadership and administrative problems that hinder educational work by using the latest global trends to deal with those problems.

Other Specializations Included In The Definition

- Educational Management
- Higher Education Management
- General Education Management
- Educational Management And Supervision
- Educational Management
- Educational Planning And Management
- Educational Planning And Its Economics
- Educational Management And Planning
- Education Policies
- Knowledge Management In Educational Institutions

Important Courses Under This Specialization

- Theories of educational leadership
- Knowledge management in education
- Organizational behavior in educational institutions
- Needs assessment and planning in education
- Evaluation in educational administration
- Economics of education
- Comprehensive quality management in education

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

**Management And Supervision Of Special Education Institutions
(041318)**

Definition

This specialization aims to provide the student with the knowledge and skills to plan, evaluate, develop, and supervise the educational process offered for children with special needs. It also deals with the methods of evolving regulations, laws, monitoring and improving them to achieve the desired goal of the educational process.

Important Courses Under This Specialization

- Educational planning and supervision in special education institutions
- Human resources in special education institutions
- economics of special needs education
- Policies and laws governing special education services in the Kingdom of Saudi Arabia

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Sports And Recreation Administration (041319)

Definition

This specialization aims to provide the student with the knowledge and skills that enable him to do managerial work in multiple sectors, such as sports clubs, recreational activities centers, fitness and health centers, sports marketing, sports media, sports journalism, and sports management facilities.

Other Specializations Included In The Definition

- Sports Management
- Sport Training And Management
- Recreational Management

Important Courses Under This Specialization

- Scientific principles of sports management
- Principles of Sport Marketing
- Sport media
- Sport recreation and leisure time
- Psychology of sport Leadership
- Sports and competitions events management

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Office Management (041320)

Definition

This specialization aims to provide the student with the skills that enable him to carry out various secretarial work, such as classification of files, administrative communications work, preparation of letters, booking appointments, follow-up of completion of work, and management of relationships with the various departments of the organization. It also seeks to enable the student to use computer applications Office automation, project management applications, HR, ... and others.

Other Specializations Included In The Definition

- Office Administration
- Management Of Administrative Leaders Offices
- Office Management And Secretariat

Important Courses Under This Specialization

- Administrative Communications
- Computer applications in office management
- Basic concepts of quality management and human resource management
- Organizational Behavior
- Office management and technologies
- Time management

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Management And Administration (0413)

Specialization
Name

Organizing & Administrative Development (041321)

Definition

This specialization aims to provide the student with the essential knowledge and skills to analyze and evaluate practices, procedures, and administrative policies and contribute to set the development plans for government organizations and decision-making. It also deals with financial aspects by studying the general budget, methods of financing business, government projects, and aspects of human resources, performance improvement and development of governmental organizations; to achieve government leadership.

Other Specializations Included In The Definition

- Administrative Systems

Important Courses Under This Specialization

- Strategic Planning
- Organizational Analysis
- Management consulting
- Budget and public finance
- Domestic financing
- Quality management in government agencies

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Marketing And Advertising (0414)

Specialization
Name

Marketing (041401)

Definition

This specialization aims to provide the student with the essential knowledge and skills to plan, manage, monitor, and coordinate marketing work in various organizations. It deals with analyzing consumer behavior and studying marketing mix; it consists of products, services, distribution, pricing, and marketing communications, in addition to studying marketing research and different marketing strategies.

Other Specializations Included In The Definition

- Applied Marketing
- Marketing And Sales
- Marketing And International Business Management
- Marketing And E-Commerce
- Marketing Management
- Marketing And Innovation Techniques

Important Courses Under This Specialization

- End consumer behavior
- Marketing research
- Product management and distribution channels
- Internet Marketing
- International Marketing
- Marketing Strategy

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Marketing And Advertising (0414)

Specialization
Name

Advertising And Marketing Communications (041402)

Definition

This specialization aims to provide the student with the essential knowledge and skills that enable him to plan, organize, manage and follow-up activities of promoting products like: (goods, services, and ideas) through using activities and different means, especially advertising. It also seeks to build the product brand and establish a specific and positive reputation for it.

Other Specializations Included In The Definition

- Advertising Communications
- Advertising Management
- Advertising

Important Courses Under This Specialization

- Advertising management and advertising agencies
- Personal Selling
- Sales promotion
- Organizing marketing events
- Integrated marketing communications
- Marketing communication content industry

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Marketing And Advertising (0414)

Specialization
Name

E-Commerce (041403)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, coordinate, manage, monitor online business and commercial activities, using e-commerce platforms, social media websites, or other means. It deals with a mixture of administrative and technical aspects, such as import, storage, transportation and distribution of goods, e-marketing, collection and payment methods, programming, website design for business purposes, building and managing databases and IT systems, etc...

Other Specializations Included In The Definition

- E-Business

Important Courses Under This Specialization

- E-Business Strategies and Models
- Supply chain management
- Legal aspects of e-Commerce.
- E-commerce

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Marketing And Advertising (0414)

Specialization
Name

Public Relations (041404)

Definition

This specialization aims to provide the student with the essential knowledge and skills to plan, manage, coordinate, follow-up, and build relationships between an organization and all categories of internal and external audiences, media, and influential groups. It seeks to enable the student to perform a range of communication functions, such as making informational and marketing messages, publishing them and ensuring the reach of the target group, and organizational functions, including arranging visits and meetings; administrative, research, and advisory positions.

Other Specializations Included In The Definition

- Public Relations And Corporate Communication
- Strategic Communication
- Public Relations And Advertising
- Public Relations And Communication
- Corporate Communication

Important Courses Under This Specialization

- Organizing and managing public relations
- Planning public relations programs and campaigns
- Public relations in crises
- International Public Relations
- Organizational communication in public relations
- The mental image in public relations

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Marketing And Advertising (0414)

Specialization
Name

Customers Service (041405)

Definition

This specialization aims to provide the student with the essential skills to provide distinguished service to clients by mastering listening skills, understanding others, excellent verbal and non-verbal communication with them, calming clients, and managing their expectations and satisfaction. It also aims to identify types of customer services provided directly, via social media, or over the phone. Furthermore, to determine the concepts of managing relationships with customers and the used technologies.

Other Specializations Included In The Definition

- Consumers Services

Important Courses Under This Specialization

- principles of customer services
- Customer Relationship Management
- Using social media to serve clients
- Computer applications in customer service
- Customer service evaluation

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Secretarial And Office Work (0415)

Specialization
Name

Executive Secretary (041501)

Definition

This specialization aims to provide the student with the necessary skills to carry out office work, organize and conduct business, and help others to do their work. It deals with skills such as receiving and handling phone calls, organizing meetings, taking notes, entering data, organizing, sorting, archiving and retrieving files and official papers, preparing letters, and following up on different tasks execution.

Other Specializations Included In The Definition

- Editing And Secretary
- Executive Secretary And Office Management
- Business Management And Secretary

Important Courses Under This Specialization

- Typing in Arabic and English
- Organizing and working methods
- The use of computers in office work
- Contemporary office management systems
- Electronic Archiving
- Administrative Communications

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Secretarial And Office Work (0415)

Specialization
Name

Medical Secretary (041502)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, organize and provide administrative services to customers of various medical institutions such as receiving patients, billing, preparing files, and carrying out different insurance work. It also includes offering help and administrative support to workers of these institutions.

Other Specializations Included In The Definition

- Secretary And Medical Transcription

Important Courses Under This Specialization

- Executive secretariat skills
- Administrative work skills
- Medical insurance
- Billing

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Wholesale And Retail Sales (0416)

Specialization
Name

Sales Management (041601)

Definition

This specialization aims to provide the student with the knowledge and skills to supervise, plan, organize, and follow-up sales work in different commercial organizations. It also deals with ways to monitor sales operations, supervise salespeople, evaluate, direct, motivate, and help them achieve the expected goal. It also focuses on data collection, sales reporting, which will help in making the needed decisions.

Other Specializations Included In The Definition

- Sales
- Retail Management

Important Courses Under This Specialization

- Build and manage sales team
- Study consumer behavior
- Negotiation, persuasion and influence skills
- Sales reporting
- Sales techniques

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

Detailed
Field

Work Skills (0417)

Specialization
Name

Communication Skills (041701)

Definition

This specialization aims to provide the student with the skills to communicate effectively with others, listen to them, and master presentation, public speaking, writing, persuasion and negotiation skills. It also deals with human communication, its theories, elements, tools, verbal and non-verbal methods, and its application personally, professionally, and socially.

Important Courses Under This Specialization

- Main communication pillars
- Communication in the workplace
- Types of communication skills
- Building communication skills

Broad field: **Business, Administration And Law (04)**

Narrow field: **Business And Administration (041)**

**Detailed
Field**

**Other Programs In Business And Administration Not Elsewhere
Classified (0419)**

**Specialization
Name**

**Other Specializations In Business And Administration Not Elsewhere
Classified (041999)**

Definition

The code (Other Specializations in Business And Administration not elsewhere classified) is used for any specialization that can be classified within the narrow field “Business And Administration” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Business, Administration And Law (04)**

Narrow field: **Law (042)**

Detailed
Field

Law (0421)

Specialization
Name

Law (042101)

Definition

This specialization deals with studying the law that governs individuals' behavior in their private lives, their financial dealings with each other, and with the state. It also regulates state authority, international political and economic relations, and government and private institutions' actions to safeguard rights and perform duties. It enables the student to understand, interpret, and apply legal provisions on issues related to individuals and institutions, provide advice, and represent them before law institutions to defend their interests and deny accusations addressed towards them.

Other Specializations Included In The Definition

- Studies Of Laws
- Legal Studies
- Law
- Law
- Regulations
- Professional Law And Practice
- Maritime Law

Important Courses Under This Specialization

- Introduction to the Study of Law
- Civil and administrative contracts
- Alternative Dispute Resolution Methods
- Administrative Law
- General Criminal Law
- Constitutional law

Broad field: **Business, Administration And Law (04)**

Narrow field: **Law (042)**

Detailed
Field

Law (0421)

Specialization
Name

Public Law (042102)

Definition

This specialization deals with studying legislation and laws that govern the relationship between the state and its institutions on the one hand and the members of society. It includes constitutional, administrative, criminal and financial law.

Other Specializations Included In The Definition

- Administrative Law
- Administrative Law For Board Of Grievances

Important Courses Under This Specialization

- Procedural Law
- General International Law
- Administrative jurisdiction
- Financial Law

Broad field: **Business, Administration And Law (04)**

Narrow field: **Law (042)**

Detailed
Field

Law (0421)

Specialization
Name

Private Law (042103)

Definition

This specialization deals with studying the legislations, laws that govern the affairs and relations among individuals. It includes studying the regulation of personal status, financial transactions, companies, etc.

Other Specializations Included In The Definition

- Personal Status

Important Courses Under This Specialization

- Commercial Disputes
- Corporate law
- Banking Law
- Labor law
- Transactions jurisprudence
- Procedural Law

Broad field: **Business, Administration And Law (04)**

Narrow field: **Law (042)**

Detailed
Field

Law (0421)

Specialization
Name

Criminal Law (042104)

Definition

This specialization deals with the regulations and laws that define crimes, their penalties, procedures followed in the investigation, trial, execution of sentences, and amnesty.

Other Specializations Included In The Definition

- Penalty Systems
- Criminal Justice
- Criminal System
- Penal Sciences
- Islamic Criminal Legislation

Important Courses Under This Specialization

- Science of investigations and forensic evidence
- Criminology and Punishment
- Comparative Criminal Law
- Jurisprudence of felonies

Broad field: **Business, Administration And Law (04)**

Narrow field: **Law (042)**

Detailed
Field

Law (0421)

Specialization
Name

Criminal Investigation (042105)

Definition

This specialization deals with studying legislation, laws regulating business, and commercial activities at the individual and corporate level. It also deals with commercial disputes, arbitration, and commercial contracts, such as sales contracts, mortgage, brokerage, and studying commercial papers, such as checks, bills of exchange, bankruptcy procedures, and judicial settlements.

Other Specializations Included In The Definition

- Criminal Investigation And Evidence
- Public Investigation And Prosecution

Important Courses Under This Specialization

- Criminal liability
- Criminal investigation
- Interrogation and criminal investigation
- Criminal psychology

Broad field: **Business, Administration And Law (04)**

Narrow field: **Law (042)**

Detailed
Field

Law (0421)

Specialization
Name

Commercial Law (042106)

Definition

This specialization deals with studying legislation, laws regulating business, and commercial activities at the individual and corporate level. It also deals with commercial disputes, arbitration, and commercial contracts, such as sales contracts, mortgage, brokerage, and studying commercial papers, such as checks, bills of exchange, bankruptcy procedures, judicial settlements, etc.

Other Specializations Included In The Definition

- Business Law
- Finance And Companies Law
- Commercial Regulations
- International Commercial Law

Important Courses Under This Specialization

- International Commercial Law
- Commercial contracts and bank operations
- Commercial paper
- Commercial arbitration.
- Intellectual property law
- Bankruptcy law

Broad field: **Business, Administration And Law (04)**

Narrow field: **Law (042)**

Detailed
Field

Law (0421)

Specialization
Name

International Law (042107)

Definition

This specialization aims to study the systems and laws that regulate relations among countries and with international organizations. It includes diplomatic representation, conflict resolution, laws applicable in war, their declaration and end, protection of civilians, how prisoners and wounded are treated, and so on. It also deals with the laws applicable to individuals and institutions when a foreign party is in the case or dispute.

Other Specializations Included In The Definition

- Public International Law
- Law And Borders

Important Courses Under This Specialization

- General International Law
- INTERNATIONAL TRADE LAW
- International Organizations
- Sharia Policy
- International maritime Law

Broad field: **Business, Administration And Law (04)**

Narrow field: **Law (042)**

Detailed
Field

Law (0421)

Specialization
Name

Judicial Studies (042108)

Definition

This specialization aims to provide the student with the essential knowledge about the work of the judiciary in the various fields (criminal, commercial, administrative, and personal status, etc...), the nature of the prosecution's work, litigation systems and procedures, and judging disputes in different legal matters. It also deals with the judicial system's history, its organization, language, and legal arguments.

Other Specializations Included In The Definition

- Judicial And Legal Policy
- Commercial Jurisdiction
- Penal Jurisdiction
- Personal Status Jurisdiction
- Labor Jurisdiction
- Administrative Jurisdiction

Important Courses Under This Specialization

- Judicial organization
- Judicial jurisprudence rules
- Judicial events
- Judicial execution
- proofing with contemporary evidence

Broad field: **Business, Administration And Law (04)**

Narrow field: **Law (042)**

Detailed
Field

Law (0421)

Specialization
Name

Shari'ah (042109)

Definition

This specialization aims to provide the student with the essential knowledge about the provisions of Islamic Sharia, in both acts of worship and transactions, and to study the sources of legislation, its regulations, its purposes, and sound belief principles. It also deals with the judiciary's issues, preserving people's rights and Judicial dismissal in different aspects of their lives.

Other Specializations Included In The Definition

- Shari'ah And Islamic Studies
- Jurisprudence
- Comparative Jurisprudence
- Fundamentals Of Jurisprudence
- Jurisprudence And Its Fundamentals
- Jurisprudence Of Medical Therapy
- Legal Policy And Regulations
- Shari'ah And Law
- Islamic Politics

Important Courses Under This Specialization

- Fundamentals of Jurisprudence
- Contemporary financial transactions
- Legitimate purposes
- Juristic rules
- The Jurisprudence of Islamic Penalties

Broad field: **Business, Administration And Law (04)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Business, Administration And Law (048)**

**Detailed
Field**

Inter-Disciplinary Programs And Qualifications Involving Business, Administration And Law (0488)

**Specialization
Name**

Inter-Disciplinary Programs And Qualifications Involving Business, Administration And Law (048888)

Definition

The code of “Inter-Disciplinary Programs And Qualifications Involving Business, Administration And Law” is used in any Inter-disciplinary programs that majority of the teaching time is devoted to “Business, Administration And Law” .

Broad field: **Business, Administration And Law (04)**

Narrow field: **Programs In Business, Administration And Law Not Elsewhere Classified (049)**

**Detailed
Field**

Programs In Business, Administration And Law Not Elsewhere Classified (0499)

**Specialization
Name**

Other Specializations In Business, Management And Law Not Elsewhere Classified (049999)

Definition

The code (Other Specializations in Business, Administration And Law Not Elsewhere Classified) is used for any specialization that can be classified within the broad field “Business, Administration And Law” and has not been classified in a specific narrow or detailed field or elsewhere in the classification.





Field (05)

Natural Sciences, Mathematics And Statistics

Biological And Related Sciences 051

Environment 052

Physical Sciences 053

Mathematics And Statistics 054



Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Programs In Natural Sciences, Mathematics And Statistics Not Further Defined (050)**

Detailed
Field

Programs In Natural Sciences, Mathematics And Statistics Not Further Defined (0500)

Specialization
Name

Specialization In Natural Sciences, Mathematics And Statistics Not Further Defined (050000)

Definition

The code “Specialization In Natural Sciences, Mathematics And Statistics Not Further Defined” is used for any specialization or program belonging to the broad field “Natural Sciences, Mathematics And Statistics”, and there is no additional information about it that help classify it in a specific narrow field.

Other Specializations Included In The Definition

- Newly Enrolled In Marine Studies
- Preparatory Year For The Faculty Of Applied Sciences
- Sciences (General)

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

**Detailed
Field**

**Programs In Biological And Related Sciences Not Further
Defined (0510)**

**Specialization
Name**

**Specialization In Biological And Related Sciences Not Further
Defined (051000)**

Definition

The code “Specialization In Biological And Related Sciences Not Further Defined” is used for any specialization or program belonging to the narrow field “ Biological And Related Sciences”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biology (0511)

Specialization
Name

Microbiology (051101)

Definition

This specialization aims to study all kinds of microorganisms such as bacteria, viruses, fungi and parasites. It aims to provide the student with the essential knowledge and skills to be familiar with these organisms, their types, classifications, methods of detection and pathological impact on human health, animals and plants, in addition to the ways of transmission, reproduction and how to deal with them to avoid their risks and benefit from them, especially in pharmaceutical and biological manufacturing.

Other Specializations Included In The Definition

- Microbiology Science
- Microbiology - Molecular Microbiology
- Microbiology Labs
- Microorganisms And Immunity
- Bacteria
- Fungi
- Environmental Microbiology And Biotechnology

Important Courses Under This Specialization

- Composition and physiology of microorganisms
- Molecular biology of microorganisms
- Medical diseases related to microorganisms
- Biotechnology

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biology (0511)

Specialization
Name

General Biology (051102)

Definition

This specialization aims to study organisms of different types in terms of their composition, functions, behavior and relationship to the environment. It provides the student with the knowledge and skills to understand and study these living organisms, conduct research and develop biotechnologies to solve their associated problems in different areas like health, pharmacological, agricultural, animal and plant wealth, etc.

Other Specializations Included In The Definition

- Biology Sciences
- Life Sciences
- Medical Biological Sciences
- Applied Biology
- Marine Biology
- Marine Environment
- Algae
- Biodiversity
- Biology Laboratory

Important Courses Under This Specialization

- Anatomy and physiology of organisms
- Molecular biology
- Botany and zoology
- Relationships among organisms

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biology (0511)

Specialization
Name

Arthropods And Parasites (051103)

Definition

This specialization aims to provide the student with the necessary knowledge to study parasites and arthropods, the relationship between them, their types, classifications and environments in which they are created. It is also concerned with identifying diseases caused by parasites and arthropods to humans and animals, methods of infection, diagnosis, treatment and control.

Other Specializations Included In The Definition

- Entomology
- Parasitology

Important Courses Under This Specialization

- Parasitology and arthropods science
- Common parasites between humans and animals
- Immune parasitology
- Classification of parasites and arthropods
- Harmful insects and their effects
- Economic and medical benefits of insects

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biology (0511)

Specialization
Name

Molecular And Cellular Biology (051104)

Definition

This specialization aims to provide the student with the necessary knowledge to study the living cell, structure, and interaction with its external environment. It also explores the cell components such as the nucleus, its chromosomes, and other organelles and biochemical reactions that occur in them, resulting in proteins and scientific techniques used in studying them. It is also concerned with the medical applications of this science in studying tumors, gene therapy, genetic diseases and other biotechnological applications of nucleic acids.

Other Specializations Included In The Definition

- Cellular Biology
- Cell Biology And Its Molecules
- Histology And Cytology
- Genetic Tissue Implantation
- Molecular Biology And Biotechnology
- Histology And Cell Biology

Important Courses Under This Specialization

- Molecular genetics
- Biology of tissues and tumors
- Forensic biology
- Nucleic acid technology
- Analysis of nucleic acid chains

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biology (0511)

Specialization
Name

Botany (051105)

Definition

This specialization aims to provide the student with the necessary knowledge and skills to study botany from the anatomical, physiological and genetic aspects. It also studies environments that the plant grows in, ways of classifying it into different families, and how to study it in the laboratory and use it for medical purposes.

Other Specializations Included In The Definition

- Plant Physiology
- Botany (Flora)
- Plant Environment
- Plant Taxonomy
- Flower And Flora Taxonomy

Important Courses Under This Specialization

- Anatomy and physiology of plants
- Methods of classification of plants
- Plant diseases
- Plant Ecology

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biology (0511)

Specialization
Name

Zoology (051106)

Definition

This specialization aims to study animals' shape, structure and functions, methods of reproduction, and transmission of their genetic characteristics in successive generations. It also studies animal behavior, its classification methods, protection and the relationship with the surrounding environment.

Other Specializations Included In The Definition

- Animal Physiology
- Animal Environment
- Embryology (Animal)
- Vertebrates And Comparative Anatomy
- Zoology Technology

Important Courses Under This Specialization

- Anatomy and physiology of animals
- Animal classification methods
- Vertebrata
- Invertebrates
- Animal diseases

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biology (0511)

Specialization
Name

Ornithology (051107)

Definition

This specialization aims to study the shape, structure, and functions of birds, their behavior, breeding methods, locations and classification methods. It also studies diseases and epidemics that may affect birds and methods of treatment and control.

Other Specializations Included In The Definition

- Bird Diseases

Important Courses Under This Specialization

- Anatomy and physiology of birds
- Bird classification methods
- Bird diseases
- Bird behavior

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field **Biology (0511)**

Specialization
Name **Genetics (051108)**

Definition

This specialization aims to provide the student with the necessary knowledge and skills to study how traits are transmitted from one generation to another through genes in living cells. It is also concerned with exploring the relationship between genes and diseases in general and genetic disorders in particular. It also studies genetic mutations and how genes can be used to diagnose, treat and prevent diseases.

Other Specializations Included In The Definition

- Human Genetics
- Animal Genetics
- Microorganisms Genetics
- Laboratories - Molecular Genetics

Important Courses Under This Specialization

- Cell science
- Population and quantitative genetics
- Molecular biology and genetic engineering
- Diagnosis of genetic diseases
- Practice control and ethics

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biology (0511)

Specialization
Name

Immunology (051109)

Definition

This specialization aims to provide the student with the necessary knowledge and skills to study living organisms' immune system, its components, responses, and function. It also deals with the types of immune diseases, the pathological processes associated with the immune system, their causes, factors affecting them, diagnosis and treatment methods. It also focuses on studying the compatibility of organ transplants.

Important Courses Under This Specialization

- Immune system and immune response
- Immunodeficiency diseases and autoimmune diseases
- Immunotherapy and its uses
- Immune response against diseases

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biology (0511)

Specialization
Name

Mycology (051110)

Definition

This specialization aims to provide the student with the necessary knowledge and skills to study fungi and similar organisms, their types, classification, environments they grow in, and genetic and cellular aspects. It also studies diseases caused by fungi to humans, animals and plants, methods of controlling them and their symptoms. Besides, it explores the pharmaceutical and agricultural benefits of fungi and how to utilize them.

Important Courses Under This Specialization

- Classification of fungi
- Physiology of fungi
- Diseases caused by fungi to humans, animals and plants
- Medicinal and agricultural uses of fungi

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biochemistry (0512)

Specialization
Name

Biochemistry (051201)

Definition

This specialization is concerned with studying the organelles' chemical processes inside organisms- including humans- and its types and changes in health and disease at the cellular level and the entire body. It also aims to identify how to influence these vital interactions and employ that in the pharmaceutical and medical industries, etc. In addition, It concerns with developing laboratory tests and analyses to detect disturbances that may occur in chemical reactions in living organisms.

Other Specializations Included In The Definition

- Pharmaceutical Analytical Chemistry
- Medical Chemistry
- Pharmaceutical Chemistry
- Pharmaceutical Chemistry And Drug Analysis
- Pharmacy Microbiology
- Biochemistry Technology
- Biochemistry And Molecular Biology
- Clinical Biochemistry
- Analytical Biochemistry
- Applied Biochemistry
- Medicinal Chemistry
- Medical Biochemistry
- Molecular Discovery And Development For Drugs

Important Courses Under This Specialization

- Physical biochemistry
- Biochemistry of specialized tissues
- Food biochemistry
- Biochemistry of body fluids
- Hormones
- Cell signaling
- Enzymes

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biochemistry (0512)

Specialization
Name

Toxicology (051202)

Definition

This specialization aims to provide the student with the necessary knowledge to study the harmful effect of some chemicals on the human body, their locations, symptoms caused by these toxic substances, chemical mechanisms contributing to this damage, detection, effective treatment methods, and preventing their harmful impact.

Other Specializations Included In The Definition

- Clinical Toxicology
- Clinical Toxins

Important Courses Under This Specialization

- Techniques for detection of toxins
- Immunity
- Biological monitoring
- Molecular biology and toxins

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biochemistry (0512)

Specialization
Name

Pharmacology (051203)

Definition

This specialization aims to provide the student with the necessary knowledge to study pharmacokinetics since entering the body until reaching the influence site within the body and metabolism and discharge methods outside the body. It also studies the therapeutic and toxic effects of medicines, the body's response, safe dosages, and interaction

Other Specializations Included In The Definition

- Pharmacology And Toxicology

Important Courses Under This Specialization

- Pharmacokinetics
- Medication metabolism
- Medicines for the nervous and cardiovascular system
- Immune pharmacology

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biochemistry (0512)

Specialization
Name

Biotechnology (051204)

Definition

This specialization aims to study living organisms at the cellular and molecular levels and apply this knowledge to design and develop new technologies and products in medical fields, in the form of developing medications and medical preparations, developing genetically modified plants to produce biofuels or plant resistance to diseases. Besides, it studies manufacturing and producing chemicals, paper, and textiles, or using of microorganisms and their products to develop vaccines, antibiotics, and enzymes with industrial value.

Other Specializations Included In The Definition

- Cell Technology
- Tissue Culture Technology
- Animal Biotechnology
- Food Biotechnology
- Plant Biotechnology
- Genomics And Biotechnology
- Food Science And Biotechnology
- Agricultural Biotechnology
- Laboratory Cultivated Meat
- Environmental Biotechnology
- Biotechnology Management
- The Genome
- Genetics And Biotechnology
- Genetic Engineering
- Medical Genes

Important Courses Under This Specialization

- Cellular and molecular biology
- Nanotechnology in medical research
- Analytical biotechnology
- Microbial enzymes

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biochemistry (0512)

Specialization
Name

Viruses (051205)

Definition

This specialization aims to provide the student with the necessary knowledge to study general groups of viruses, their characteristics, types, classification, reproduction, and transmission methods. It also aims to identify diseases caused by viruses to humans, animals and plants, their symptoms, diagnosis methods, immune response, and treatment.

Important Courses Under This Specialization

- The structure and form of viruses
- Serological and immune properties against viruses
- Plant, animal and bacterial viruses
- Study of cellular and tissue farms and their types

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

Detailed
Field

Biochemistry (0512)

Specialization
Name

Forensic Evidences (051206)

Definition

This specialization aims to provide the student with the knowledge and skills to identify, collect, analyze, classify, and retrieve material evidence related to criminal investigations. It also covers methods and techniques for testing weapons and materials such as fibers, hair, and tissues and using them as forensic evidence, in addition to the study and analysis of projectiles, fingerprints, and handwriting.

Other Specializations Included In The Definition

- Analyzing Physical Evidence At The Crime Scene
- Criminal Chemistry - Toxins And Drugs
- Laboratory Analysis Of Explosives
- Laboratory Analysis Of Paints, Inks And Dyes
- Genetic Footprint
- Criminal Biology - Blood And Serums
- Criminal Biology - Tissues, Hair And Fibers
- Criminal Biology - Genetic Footprint
- Criminal Physics - Personal Identification
- Criminal Physics - Examination Of Documents And Currencies
- Criminal Physics - Examination Of Weapons And Traces Of Machines
- Crime Scene Documentation
- Forensic Photography Documentation

Important Courses Under This Specialization

- Principles of forensic medicine
- Electronic forensics
- Examine the effects of weapons and machines
- Criminal Toxins

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Biological And Related Sciences (051)**

**Detailed
Field**

**Other Programs In Biological And Related Sciences Not
Elsewhere Classified (0519)**

**Specialization
Name**

**Other Specializations In Biology And Related Sciences Not Elsewhere
Classified (051999)**

Definition

The code (Other Specializations In Biology And Related Sciences Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Biological And Related Sciences” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Environment (052)**

Detailed
Field

Programs In Environment Not Further Defined (0520)

Specialization
Name

Specialization In Environment Not Further Defined (052000)

Definition

The code “Specialization In Environment Not Further Defined” is used for any specialization or program belonging to the narrow field “ Environment”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Environment (052)**

Detailed
Field

Environmental Sciences (0521)

Specialization
Name

Environmental Science (052101)

Definition

This specialization is concerned with studying elements of the environment of all kinds such as water, air, soil and pollution that may affect them and ways to deal with them. It aims to provide the student with the necessary knowledge and skills to study how to monitor and follow-up environmental pollution problems, such as chemical, physical, biological and noise pollution. It also examines water suitability for different uses such as industrial, agricultural, and domestic uses and carrying out inspections for different facilities to ensure their compliance with environmental health and safety regulations.

Other Specializations Included In The Definition

- Environmental Studies
- Animal Environment And Pollution
- Air Pollution And Meteorology
- Water Pollution

Important Courses Under This Specialization

- Environmental epidemiology
- Environmental toxins
- Air and water pollution
- Hazardous waste treatment
- Environmental chemistry
- Sewer microbiology
- Principles of toxicology and environmental chemistry

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Environment (052)**

Detailed
Field

Environmental Sciences (0521)

Specialization
Name

Environmental Health Sciences (052102)

Definition

This specialization aims to provide the student with the knowledge and skills to study, analyze and evaluate the impact of environmental hazards on human health. It includes studying diseases related to environmental pollution, how to control them, epidemics, their causes and how to limit their spread. It also explores solid, liquid, and industrial wastes and assessing their impact and how to treat them to reduce their impact on human health.

Other Specializations Included In The Definition

- Environmental Management And Environmental Impact Assessment

Important Courses Under This Specialization

- Hazardous waste management
- Health risk assessment
- Water and foodborne diseases
- Environmental epidemiology
- Diseases transmitted by insects and arthropods

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Environment (052)**

Detailed
Field

Natural Environments And Wildlife (0522)

Specialization
Name

Environment Protection (052201)

Definition

This specialization aims to provide the student with the knowledge and skills to work in pest control, serious epidemics, environmental monitoring, environmental sanitation, ensuring water safety, its conformity with approved specifications and standards and contributing to awareness campaigns, which raise environmental awareness about epidemics and pollutants among members of society.

Other Specializations Included In The Definition

- Environmental Protection And Natural Resources
- Environmental Protection Technology

Important Courses Under This Specialization

- Water and air pollution
- Management and quality of drinking water
- Medicinal and veterinary insects
- Solid waste management
- Environmental Assessment
- Quarantine

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Environment (052)**

**Detailed
Field**

**Other Programs In Environment Not Elsewhere Classified
(0529)**

**Specialization
Name**

**Other Specializations In The Environment Not Elsewhere Classified
(052999)**

Definition

The code (Other Specializations In The Environment Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Environment” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Programs In Physical Sciences Not Further Defined (0530)

Specialization
Name

Specialization In Physical Sciences Not Further Defined (053000)

Definition

The code “Specialization In Physical Sciences Not Further Defined” is used for any specialization or program belonging to the narrow field “Physical Sciences”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Chemistry (0531)

Specialization
Name

Chemistry (053101)

Definition

This specialization aims to provide the student with the essential knowledge and skills to study chemical compounds, their laws, interactions, and applications and enable them to perform an analysis of chemical substances in laboratories and factories, to identify their components, properties, composition, and reactions and uses. It also deals with testing and developing various chemical products, measuring their quality and improving them, and developing tools and devices used in analyzing and simulating chemical reactions.

Other Specializations Included In The Definition

- Pure Chemistry
- Marine Chemistry
- Applied Chemistry
- Chemical Laboratories
- Environmental Chemistry

Important Courses Under This Specialization

- Principles of chemistry
- Thermodynamics
- Organic chemistry
- Analytical chemistry

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Chemistry (0531)

Specialization
Name

Industrial Chemistry (053102)

Definition

This specialization is concerned with studying practical applications of chemistry in various factories. It aims to provide the student with the knowledge and skills to study and prepare the chemical materials used in the manufacturing processes.

Important Courses Under This Specialization

- Industrial pollutants and waste management
- Petrochemical industries
- Surface chemistry and applied catalysis
- Polymer chemistry

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Chemistry (0531)

Specialization
Name

Organic Chemistry (053103)

Definition

This specialization aims to study the structure and interactions of compounds and organic materials, their physical and chemical properties, methods of preparation and their uses in the pharmaceutical and agricultural industries.

Important Courses Under This Specialization

- Be acquainted with organic compounds
- Prepare organic compounds
- Spectra of organic compounds
- Mechanism of organic reactions

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Chemistry (0531)

Specialization
Name

Analytical Chemistry (053104)

Definition

This specialization aims to provide the student with the knowledge and skills to analyze and describe different materials' components. It also deals with methods of using devices in chemical analysis processes such as chromatography.

Important Courses Under This Specialization

- Chemistry of volumetric and gravimetric analysis
- Automated and electrical analysis methods
- Mass spectrometer applications in analytical chemistry
- Environmental analyzes

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Chemistry (0531)

Specialization
Name

Physical Chemistry (053105)

Definition

This specialization is concerned with studying the physical properties of chemical compounds, the behavior of these compounds at the molecular and atomic level, how chemical reactions occur and the effect of physical laws on these reactions.

Important Courses Under This Specialization

- Thermodynamics
- Kinetic chemistry in solutions
- Electrochemistry
- Spectrum analysis

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Chemistry (0531)

Specialization
Name

Polymer Chemistry (053106)

Definition

This specialization is concerned with studying polymers, their physical and chemical properties, composition and treatment. It also deals with various polymerization methods and wide applications of polymers use, and the most important are plastics and rubber industries and their use in the manufacture of fibers.

Important Courses Under This Specialization

- Principles of polymer science
- Biopolymers
- Preparation of polymers
- Polymers and petrochemicals

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Chemistry (0531)

Specialization
Name

Inorganic Chemistry (053107)

Definition

This specialization aims to study the structure, reactions of compounds and substances consisting of the major groups in the periodic table (which do not contain the carbon atom). It also deals with methods of purifying inorganic compounds in various physical and chemical ways and their broad uses in the fields of medicine, industry and others.

Important Courses Under This Specialization

- Spectra of inorganic compounds
- Mechanism of inorganic reactions
- Inorganic chemistry
- Chemistry of transition elements

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Earth Sciences (0532)

Specialization
Name

Geography (053201)

Definition

This specialization aims to study the geography of the characteristics and distributions of the nature of a region in terms of its topography, climate, human wealth, population, urban, economic and spatial distribution of natural and human phenomena. It also studies the geographical distribution of natural, cultural, demographic and economic phenomena at the local, regional and international levels and to collect and analyze information and data (such as information systems, remote sensing), which pertain to the surrounding environment and what's on it and using them for various purposes.

Other Specializations Included In The Definition

- Resources And Regional Development
- Sustainable Regional Development
- Environmental Studies (Geography)
- Economic Geography And Regional Development
- Environment And Natural Resources
- Development And Regional Resources
- Natural Geography
- Planning And Development

Important Courses Under This Specialization

- Water geography
- Political geography
- GIS applications in the natural environment
- Sustainability of natural resources
- Natural geographical phenomena in the kingdom of Saudi Arabia

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Earth Sciences (0532)

Specialization
Name

Sciences And Management Of Water Resources Science (053202)

Definition

This specialization aims to provide the student with the essential knowledge to study various water resources, such as surface and groundwater, and identify their sources, movement, components, methods of use, conservation, and discharge methods. It also deals with drawing precise mapping of available water resources, through advanced technical means, such as geographic information systems (GIS).

Other Specializations Included In The Definition

- Water Resources Development
- Water Sciences
- Science Of Natural Resources
- Water Sources
- Water And The Environment
- Water Resources And Environment Management

Important Courses Under This Specialization

- Principles of surface hydrology
- Principles of groundwater hydrology
- Valleys hydrology
- Design of irrigation and sewage systems
- Soil-water relationship
- Urban hydrology

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Earth Sciences (0532)

Specialization
Name

Geographical Information Systems (053203)

Definition

This specialization aims to provide the student with the essential knowledge and skills to use computer programs and GPS to collect, store, analyze, display and process information and natural and human data, and process them spatially and descriptively. It also deals with the ways of using this data in mapping, defining infrastructure, studying various geographical changes and following temporal development.

Other Specializations Included In The Definition

- Maps And Geographic Information Systems
- Geographical Technologies And Services
- Geography And Geographical Information Systems
- Cartography
- Geoinformatics

Important Courses Under This Specialization

- Introduction to GIS
- Methods for representing geographical data
- Space databases
- Applications in GIS
- Spatial analysis in GIS

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Earth Sciences (0532)

Specialization
Name

Geophysics (053204)

Definition

This specialization seeks to study the physical properties of the Earth's interior and provide the student with the necessary knowledge and skills about the devices and tools used to collect information about the region's physical components. It also works to determine the presence of groundwater and follow the movement of oil and migration and natural gas sources and the preparation of geological maps and cross-sections of the ground layers under study.

Other Specializations Included In The Definition

- Seismology
- Geophysical Engineering

Important Courses Under This Specialization

- Geophysics
- Geophysical engineering
- Seismology
- Seismic monitoring
- Earthquake risk assessment

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed

Field

Earth Sciences (0532)

Specialization
Name

Geology (053205)

Definition

This specialization aims to study the core of the Earth in terms of composition, components, and chemical, biological and physical processes. It also explores the history of the Earth through ages, how it was formed, and changes in it. It also seeks to provide the student with the knowledge and skills to study layers of the Earth and conduct field studies to collect data, assist in exploration for gas and oil, and study possible natural phenomena.

Other Specializations Included In The Definition

- Geological Drawing
- Marine Geology
- Oceanography
- Mineral Geology And Rocks
- Economic Geology
- Engineering And Environmental Geology
- Environmental And Applied Geology
- Engineering Geology
- Structural Geology And Remote Sensing
- Petroleum Geology And Sediments
- Sedimentary Rocks And Layers
- Paleontology
- Water Geology
- Petrology

Important Courses Under This Specialization

- Physical geology
- The sedimentary geology of Saudi Arabia
- Fieldwork techniques
- Geological risk assessment
- Engineering geology techniques

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Earth Sciences (0532)

Specialization
Name

Meteorology (053206)

Definition

This specialization aims to study the Earth's meteorological conditions, trying to predict the weather, study the atmosphere, climate changes and follow its chronological development. It also seeks to provide the student with the knowledge and skills to study different weather phenomena such as rain, temperature, atmospheric pressure, and wind and collect information from many sources such as satellites and sensors, on the general condition of the atmosphere and its interpretation with information systems and remote sensing to develop a scientific perception of it.

Other Specializations Included In The Definition

- Meteorology
- Air Information
- Meteorology

Important Courses Under This Specialization

- Climate change
- Aerodynamics
- Aerophysics
- Atmospheric monitor

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Earth Sciences (0532)

Specialization
Name

Geomatics (053207)

Definition

This specialization aims to provide the student with the knowledge and skills to collect, scan, process, analyze, display information and urban data, and to compose maps. It also studies using GIS, remote sensing, and digital analysis in surveying, analysis, presentation, mapping and measurement of urban data management.

Other Specializations Included In The Definition

- Geomatics Engineering

Important Courses Under This Specialization

- Geospatial principles of Geomatics
- Geodetic positioning
- Modeling and spatial analysis
- Digital graphic space

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Physics (0533)

Specialization
Name

Physics (053301)

Definition

This specialization aims to provide the student with the knowledge to understand natural laws that control the movement of objects, materials of all kinds and relationships between matter and energy. It also deals with mathematical, scientific and logical analysis of natural phenomena, the behavior of objects and materials, as well as the practical skills needed to design and conduct laboratory experiments to describe and study the behavior of objects and materials, the fundamentals of traditional mechanics, electricity and magnetism, thermal physics, electronics, quantum mechanics, optics and solid-state physics.

Other Specializations Included In The Definition

- Physics - Electronics
- Physics - Electromagnetism
- Physics Of Matter
- Quantum Computing
- Applied Physics
- Biophysics
- Marine Physics
- Solar Energy Physics
- Renewable Energy Physics And The Environment
- Quantitative Technology
- Semiconductor Physics And Electronics
- Energy And Environmental Physics

Important Courses Under This Specialization

- Traditional mechanics
- Electricity and magnetism
- Quantum mechanics
- Thermal and statistical
- physics
- Light and modern optics

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Physics (0533)

Specialization
Name

Nuclear Physics (053302)

Definition

This specialization aims to provide the student with the essential knowledge to study the atomic nucleus characteristics, nuclear binding energy, the phenomenon of radioactivity, laws of nuclear decay, radioactive chains, and the work of nuclear accelerators and reactors.

Other Specializations Included In The Definition

- Nuclear And High Energy Physics

Important Courses Under This Specialization

- Quantum mechanics
- Radioactivity
- Nuclear fission
- Nuclear accelerators and nuclear reactors

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Physics (0533)

Specialization
Name

Condensed State Physics (053303)

Definition

This specialization aims to provide the student with the essential knowledge to study thermal, electrical, magnetic and optical properties of solid and liquid materials.

Other Specializations Included In The Definition

- Solid State And Condensed Physics
- Solid State Physics

Important Courses Under This Specialization

- Solid state physics
- Crystalline structures
- Solar energy
- Quantitative theory of materials

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field **Physics (0533)**

Specialization
Name **Chemical Physics (053304)**

Definition

This specialization aims to provide the student with the essential knowledge to study the behavior of matter, structure and changes at the molecular and atomic level. It also focuses on studying the physical aspects of processes, chemical phenomena, at the level of atoms, ions, and the flow of molecular energy and techniques used in studying that such as spectroscopy.

Other Specializations Included In The Definition

- Plasma And Laser Physics

Important Courses Under This Specialization

- Spectrum analysis
- Quantitative chemistry
- Molecular quantum mechanics
- Physical methods in material analysis

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Physics (0533)

Specialization
Name

Optics Physics (053305)

Definition

This specialization aims to provide the student with the essential knowledge to study the light, its components, characteristics, and behavior in different circumstances and its interaction with the material. It also deals with the physical phenomena of light, such as polarization, diffraction and interference.

Other Specializations Included In The Definition

- Physics Of Light And Its Applications
- Laser And Spectra Physics

Important Courses Under This Specialization

- Electromagnetic theory
- Engineering optics
- Quantum theory of light
- Laser spectrometer and its applications

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Physics (0533)

Specialization
Name

Astronomy (053306)

Definition

Astronomy is concerned with studying celestial bodies, such as the sun, stars, planets, galaxies, and moons; studying their structure, how they evolve, their origins, how they are monitored, their masses and sizes, how far they are from earth and looking for the possibility of any life existing on them. It also studies the physical and mathematical laws used in this field, in addition to methods of using terrestrial and space telescopes of all kinds.

Other Specializations Included In The Definition

- Astronomy Mathematics
- Astronomy And Space Sciences
- Space Science
- Astronomy Physics
- Dynamic Astronomy

Important Courses Under This Specialization

- Celestial mechanics
- Spherical astronomy
- Astrophysics.
- Radiation physics
- Physics of the universe
- Astronomical devices

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Physics (0533)

Specialization
Name

Nanoscience And Science (053307)

Definition

This specialization aims to study nanomanufacturing and methods of analyzing the physical and chemical properties of nanomaterials and devices. It also seeks to provide the student with the laboratory skills needed to manufacture materials, devices and nanoscale products with multiple applications, such as electronics, semiconductors, aerospace and aviation industries, gas and liquid sensors, solar cells, nanomedical materials and water treatment filters, etc...

Other Specializations Included In The Definition

- Nano Physics
- Nanomaterials In The Field Of Energy And Environment
- Nanotechnology In Medicine And Diagnostics

Important Courses Under This Specialization

- Nano manufacturing
- Nano chemistry
- Methods of analyzing nanostructures
- Nano physics

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

Detailed
Field

Physics (0533)

Specialization
Name

Medical Physics (053308)

Definition

This specialization aims to provide the student with the knowledge and skills about applications of concepts, laws and physical techniques for medical diagnosis and treatment; it includes different applications such as radiological protection, medical radiography, nuclear medicine and radiotherapy for tumors. It deals with studying the basics of human anatomy, radiobiology, radio-physics, radiation dosimetry, radiotherapy physics and diagnostic radiology physics.

Other Specializations Included In The Definition

- Medical Physics Engineering
- Radiotherapy Physics
- Nuclear Medicine Physics
- Radiation Biophysics
- Biomedical And Medical Physics
- Biophysics

Important Courses Under This Specialization

- Radiation physics and dosimetry
- Radiotherapy physics
- Diagnostic radiation physics
- Health physics and radiation protection

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Physical Sciences (053)**

**Detailed
Field**

Programs In Physical Sciences Not Elsewhere Classified (0539)

**Specialization
Name**

**Other Specializations In Physical Sciences Not Elsewhere Classified
(053999)**

Definition

The code (Other Specializations in Physical Sciences Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field of “physical sciences” not classified in a specific detailed area or elsewhere in the classification.

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Mathematics And Statistics (054)**

**Detailed
Field**

**Programs In Mathematics And Statistics Not Further Defined
(0540)**

**Specialization
Name**

**Specialization In Mathematics And Statistics Not Further Defined
(054000)**

Definition

The code “Specialization In Mathematics And Statistics Not Further Defined” is used for any specialization or program belonging to the narrow field “ Mathematics And Statistics”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Mathematics And Statistics (054)**

Detailed
Field

Mathematics (0541)

Specialization
Name

Mathematics (054101)

Definition

This specialization aims to provide the student with the knowledge and skills in the mathematical field such as proofing methods, functions, series, sequences, dual and triple integration, linear algebra, matrices, ordinary and partial differential equations. It also seeks to enable the student to study functional analysis principles to model some physical phenomena and their applications in engineering fields.

Other Specializations Included In The Definition

- Mathematical Sciences
- Differential Equations
- Functional Analysis
- Science And Mathematics
- Physics And Mathematics
- Mathematics And Statistics
- Engineering And Topology
- Pure Mathematics
- Algebra
- Abstract Algebra
- Applied Mathematics
- Biometrics
- Computational And Applied Mathematics
- Differential Geometry
- Computational And Discrete Mathematics
- Economic Mathematics
- Numerical Analysis
- Mathematical Engineering
- Mathematical Analysis

Important Courses Under This Specialization

- Calculus
- Linear algebra and Euclidean geometry
- Real and functional analysis
- Analytic geometry
- Algebraic topology
- Numerical Calculus

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Mathematics And Statistics (054)**

Detailed
Field

Mathematics (0541)

Specialization
Name

Mathematical Operations Research (054102)

Definition

This specialization aims to provide the student with the knowledge and skills to be familiar with the scientific methods used to analyze complex problems and search for solutions to make the appropriate decisions. Operational research concepts and tools are applied in the administrative, industrial, commercial, civil and military fields.

Other Specializations Included In The Definition

- Operations Research

Important Courses Under This Specialization

- Linear algebra
- Regression analysis
- Random operations and row models
- Non-linear optimization
- Random operations and row models

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Mathematics And Statistics (054)**

Detailed
Field

Statistics (0542)

Specialization
Name

Statistics (054201)

Definition

This specialization aims to provide the student with the necessary knowledge and skills to use statistical methods, statistical analysis, probabilities and probability distributions, use of statistical programs, statistical methods and hypothesis tests. It also seeks to enable the student to deal with statistical data and analysis, design data collection forms and extracts results using statistical programs.

Other Specializations Included In The Definition

- Applied Statistics
- Decision Sciences
- Statistics And Research
- Computer Statistics
- Applied Statistics And Data Management
- Mathematical Statistics

Important Courses Under This Specialization

- Introduction to statistics
- Statistical packages
- Theory of probability
- Statistical survey methods
- Multi variables statistical methods
- Design and analysis of experiments

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Mathematics And Statistics (054)**

Detailed
Field

Statistics (0542)

Specialization
Name

Medical Statistics (054202)

Definition

This specialization aims to provide the student with the knowledge and skills to apply statistical methods in various medical and health researches. It includes gathering information, analyzing medical experiment data, interpreting their results, verifying assumptions, accessing evidence and proofs affecting medical practice, and making appropriate decisions.

Other Specializations Included In The Definition

- Biostatistics

Important Courses Under This Specialization

- Concepts of general statistics
- Statistical data collection
- Sampling methods
- Design of experiments
- Statistical analysis
- Statistical applications in health research

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Mathematics And Statistics (054)**

Detailed
Field

Statistics (0542)

Specialization
Name

Actuarial Science (054203)

Definition

This specialization aims to provide the student with the knowledge and skills to apply mathematical models and statistical analysis to formulate predictions of the economic situation, analyze potential crises and their financial consequences, write reports and prepare offers to clarify that.

Other Specializations Included In The Definition

- Actuarial Science And Financial Mathematics
- Financial Mathematics

Important Courses Under This Specialization

- Introduction to linear algebra
- Introduction to real analysis
- Modelling and stimulation
- Credibility theory and distribution of loss
- Risk theory
- Time series and prediction

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Mathematics And Statistics (054)**

Detailed
Field

Statistics (0542)

Specialization
Name

Quantitative Methods (054204)

Definition

This specialization aims to provide the student with mathematical and statistical tools used in quantitative analysis to assess risks and aid decision-makers in the various administrative, financial and insurance aspects.

Other Specializations Included In The Definition

- Quantitative Analysis

Important Courses Under This Specialization

- Operational research
- Administrative projection
- Statistical approaches in health management
- Statistical approaches in decision making
- Administrative statistics

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Mathematics And Statistics (054)**

**Detailed
Field**

**Other Programs In Mathematics And Statistics Not Further
Defined (0549)**

**Specialization
Name**

**Other Specializations In Mathematics And Statistics Not Elsewhere
Classified (054999)**

Definition

The code (Other Specializations In Mathematics And Statistics Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Mathematics And Statistics” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Natural Sciences, Mathematics And Statistics (058)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Natural Sciences, Mathematics And Statistics (0588)

Specialization
Name

Bioinformatics (058801)

Definition

This specialization aims to provide the student with the knowledge and skills to enable him to apply information technologies, programming, and computers, in the fields of medical and biological research. It also deals with the use of computer technologies, such as database design, the development of algorithms to collect and analyze medical and biological data and then design models that serve in medical and pharmacological research, genetics, etc.

Important Courses Under This Specialization

- Biological and genetic information
- Database management
- Statistical analysis
- Statistical models
- Medicinal bioinformatics
- Structural bioinformatics

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Natural Sciences, Mathematics And Statistics (058)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Natural Sciences, Mathematics And Statistics (0588)

Specialization
Name

Inter-Disciplinary Programs And Qualifications Involving Natural Sciences, Mathematics And Statistics (058888)

Definition

The code of “Inter-disciplinary programs and qualifications that include Natural Sciences, Mathematics And Statistics” is used in any Inter-disciplinary programs that majority of the teaching time is devoted to “Natural Sciences, Mathematics And Statistics”

Broad field: **Natural Sciences, Mathematics And Statistics (05)**

Narrow field: **Other Programs In Natural Sciences, Mathematics And Statistics Not Elsewhere Classified (059)**

Detailed
Field

Other Programs In Natural Sciences, Mathematics And Statistics Not Elsewhere Classified (0599)

Specialization
Name

Other Specializations In Natural Sciences, Mathematics And Statistics Not Elsewhere Classified (059999)

Definition

The code (Other Specializations in Natural Sciences, Mathematics And Statistics Not Elsewhere Classified) is used for any specialization that can be classified within the broad field "Natural Sciences, Mathematics And Statistics" and has not been classified in a specific narrow or detailed field or elsewhere in the classification.





Field (06)

Information And Communication Technologies (ICTs)

Information And Communication Technologies (ICTs)

061



Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

**Detailed
Field**

**Programs In Information And Communication Technologies
(ICTs) Not Further Defined (0610)**

**Specialization
Name**

**Specialization In Information And Communication Technologies
(ICTs) Not Further Defined (061000)**

Definition

The code “Specialization In Information And Communication Technologies (ICTs) Not Further Defined” is used for any specialization or program belonging to the narrow field “Information And Communication Technologies (ICTs)”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

Detailed
Field

Computer Use (0611)

Specialization
Name

Desktop Applications And Computer Maintenance For The Hearing Impaired (061101)

Definition

This specialization aims to provide the student with hearing impairments with the knowledge, skills, and competencies to use computer applications in office and secretarial work, such as word processor, data entry, preparation of presentations, etc. It also addresses the skills of preparing, maintaining computers, solving software problems, and the applications used in it.

Other Specializations Included In The Definition

- Desktop Applications And Computer Maintenance For The Deaf

Important Courses Under This Specialization

- Computer Applications
- Computer operating system
- Office skills
- Arabic keyboard
- word processing
- Computer architecture

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

Detailed
Field

Computer Use (0611)

Specialization
Name

Office Applications For The Visually Impaired (061102)

Definition

This specialization aims to provide the student with visual impairments with the knowledge, skills, and competencies to use computer applications in office and secretarial work, such as data entry. It also addresses customer service skills and support for them in various fields.

Other Specializations Included In The Definition

- Support Beneficiaries And Office Applications On The Computer For The Visually Impaired

Important Courses Under This Specialization

- Computer Basics
- Bilingual touch printing
- Computer operating system
- Compensating skills for the visually impaired
- Email and time management
- Beneficiary Support Basics

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

Detailed
Field

Database And Network Design And Administration (0612)

Specialization
Name

Network Systems Administration (061201)

Definition

This specialization aims to provide the student with the knowledge and skills to administer computer network services in various facilities. This specialization covers monitoring the network performance in the facility, managing user accounts, determining the access granted to them, providing technical support, and fixing emergency errors on the network.

Other Specializations Included In The Definition

- Information Networks
- Networks And The Internet
- Computer Network Technology And Operating Systems
- Network Technology
- Supporting Computer Network Systems
- Communications And Computer Networks
- Computer Networks Administration

Important Courses Under This Specialization

- Network services Administration
- Technical support skills
- Network server environment
- Network systems applications
- Server Administration
- Cloud Services Infrastructure Administration

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

Detailed
Field

Database And Network Design And Administration (0612)

Specialization
Name

Technical Support (061202)

Definition

This specialization aims to provide the student with the knowledge, skills, and competencies to provide technical support to the user, solve problems related to applications and systems, repair, configuration, assembly, maintenance, and upgrade the computer account. It also deals with providing training to users, to facilitate the use of various technologies effectively and without delay.

Other Specializations Included In The Definition

- Computer Support Skill
- Computer Technical Support

Important Courses Under This Specialization

- Principles of Computer Security
- Computer assembly and operation
- Operating Systems
- Principles of computer networks
- Qualification for professional certificates
- Technical support skills

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

Detailed
Field

Database And Network Design And Administration (0612)

Specialization
Name

Information Security (061203)

Definition

This specialization aims to provide the student with the knowledge and skills to protect and encrypt information and systems of the facility without affecting work productivity and the user's access to systems and data. It also deals with the development, follow-up, and evaluation of policies and legislation governing the use of information inside and outside the organization; to protect its assets and evidence from penetration.

Other Specializations Included In The Definition

- Cyber Security
- Combating Information Crimes
- Cyber Security And Digital Investigation
- Professional Cyber Security
- Information And Network Security

Important Courses Under This Specialization

- Safe Software Development
- Ethical hacking
- Digital crimes
- Data coding
- Network and website security
- Cloud Network Security

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

Detailed
Field

Software And Applications Development And Analysis (0613)

Specialization
Name

Programming And Computer Sciences (061301)

Definition

This specialization provides the student with essential knowledge and skills to design, program, and develop high-quality software solutions, to satisfy users' needs and providing better services to customers. It also deals with the design, programming, and development of websites, or smart mobile applications, or desktops, and automates business paths by studying programming languages, codes, and algorithms of all kinds.

Other Specializations Included In The Definition

- Programming And Databases
- Programming And Information Systems
- Computer Programming And Operation
- Computer Programming And Engineering
- Programming And Applications
- Computer Applications
- Computer
- Applied Computer
- Website Development Technology
- Applied Computer Science
- Information Computing
- Crypto Currencies
- Blockchain Technology
- The Internet Of Things
- IoT Technology And Automated Houses
- Web Development
- Cloud-Based Big Data
- Computer Sciences
- Computer Programming And Information Systems
- Computer And Information Technology
- Computer And Information Systems
- Computer And Administration Information Systems
- Computer Science And Engineering

Important Courses Under This Specialization

- Computing theory
- Modeling and simulation
- Numerical analysis
- programming languages
- Internet applications
- Operating systems
- Databases and structures

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

Detailed
Field

Software And Applications Development And Analysis (0613)

Specialization
Name

Software Engineering (061302)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, analyze, build, modify, and maintain software systems in their various phases to meet customers' needs of all kinds. This specialization addresses the stages of software systems development, starting with understanding customer needs, analyzing them, developing a business plan, designing the system, implementing, testing, and verifying its quality before launching it and making the necessary adjustments to meet the growing customer needs.

Important Courses Under This Specialization

- Systems architecture
- Software quality assurance and testing
- Software Requirements Engineering
- Software design
- Software testing and verification
- Complex software systems engineering

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

Detailed
Field

Software And Applications Development And Analysis (0613)

Specialization
Name

Information Technology (061303)

Definition

This specialization aims to provide the student with the essential knowledge and skills to take responsibility for the technical aspects in different organizations, as he makes sure that the required technical services are available, stable, and secured. It also enables the student to assess the organization's need for computer systems, applications, and networks and work on providing, preparing and configuring them, ensuring the quality of their work, and training workers to use them efficiently.

Other Specializations Included In The Definition

- Information Technology Administration
- Internet And Multimedia Technologies
- Multimedia And Web Technologies

Important Courses Under This Specialization

- Database Administration systems
- Advanced web technologies
- Web technologies
- IT Project Management
- Systems Administration and maintenance
- User experience design

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

Detailed
Field

Software And Applications Development And Analysis (0613)

Specialization
Name

Information Systems (061304)

Definition

This specialization aims to provide the student with the essential knowledge and skills to develop integrated technical systems for institutions and companies. It deals with analyzing, designing, building, and operating information systems that operate institutions, such as banks, telecommunications companies, and others. It also focuses on administering databases, archiving, storing, protecting, and retrieving them when needed. Besides, it enables the student to understand business requirements and provide appropriate solutions to them.

Other Specializations Included In The Definition

- Systems Analysis And Design
- Data Administration
- Computer Information Systems
- Information Warfare Systems Engineering
- Information Systems And Technology
- Computer Applications And Systems Administration
- Hyper Data
- Enterprise Systems And Data Administration
- Development Of Database Applications

Important Courses Under This Specialization

- Data warehouses
- Data bases and structures
- Information systems security
- Systems design and analysis
- Decision making support systems
- Business Process Modeling

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

Detailed
Field

Other Programs In Information And Communication Technologies (ICTs) Not Further Defined (0619)

Specialization
Name

Artificial Intelligence (061901)

Definition

This specialization aims to provide the student with the essential knowledge and skills to design, program, and develop high-quality software solutions to meet individuals' needs and provide better services to clients. It also deals with the design, programming, and development of websites, smartphones, or desktop applications and automates business paths by studying programming languages, codes, and algorithms of all kinds.

Other Specializations Included In The Definition

- Applied Artificial Intelligence
- Virtual Reality And Games

Important Courses Under This Specialization

- Machine learning
- Natural language processing and digital images
- Expert systems
- Deep learning
- Enhanced learning
- Search algorithms
- Robotic

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

Detailed
Field

Other Programs In Information And Communication Technologies (ICTs) Not Further Defined (0619)

Specialization
Name

Data Sciences (061902)

Definition

This specialization aims to provide the student with the knowledge and skills to collect, analyze, and interpret data and use mathematical and statistical tools to achieve this. This specialization deals with studying the technical, mathematical, statistical, administrative, and marketing aspects of data to extract tangible benefits from them, help solve various problems, and make appropriate decisions.

Other Specializations Included In The Definition

- Big Data
- Data Analysis
- Data Engineering

Important Courses Under This Specialization

- Probability theory and statistics for data science
- Big data exploration
- Machine learning for data science
- Data imaging
- Advanced databases
- Data warehouses

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Information And Communication Technologies (ICTs) (061)**

**Detailed
Field**

**Other Programs In Information And Communication
Technologies (ICTs) Not Further Defined (0619)**

**Specialization
Name**

**Other Specializations In Information And Communication
Technologies Not Elsewhere Classified (061999)**

Definition

The code (Other Specializations In Information And Communication Technologies Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Information And Communication Technologies” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Information And Communication Technologies (ICTs) (06)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Information And Communication Technologies (ICTs) (068)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Information And Communication Technologies (ICTs) (0688)

Specialization
Name

Health Informatics (068801)

Definition

This specialization aims to study the methods of providing data and information needed by the medical and financial management and health practitioners in the health care sector; to ensure a more efficient and safe service. It seeks to provide the student with essential knowledge and skills related to technical systems, communication systems, networks, and databases used in all areas of health care, such as medicine, dentistry, pharmacy, nursing, and medical records. It also seeks to design, review, administer, and evaluate used health information systems or needed systems to assist workers in this sector in providing better service.

Other Specializations Included In The Definition

- Technology And Management Of Health Informatics
- Informatics In Nursing

Important Courses Under This Specialization

- Biostatistics and epidemiology
- Decision support systems
- Information security technology and policies
- Healthcare data analysis



Field (07)

Engineering, Manufacturing And Construction

Engineering And Engineering Trades 071

Manufacturing And Processing 072

Architecture And Construction 073



Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Programs In Engineering, Manufacturing And Construction Not Further Defined (070)**

Detailed
Field

Programs In Engineering, Manufacturing And Construction Not Further Defined (0700)

Specialization
Name

Specialization In Engineering, Manufacturing And Construction Not Further Defined (070000)

Definition

The code “Specialization In Engineering, Manufacturing And Construction Not Further Defined” is used for any specialization or program belonging to the broad field “Engineering, Manufacturing And Construction”, and there is no additional information about it that help classify it in a specific detailed field.

Other Specializations Included In The Definition

- Newly Enrolled In Engineering

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

**Detailed
Field**

Programs In Engineering And Engineering Trades Not Further Defined (0710)

**Specialization
Name**

Specialization In Engineering And Engineering Trades Not Further Defined (071000)

Definition

The code “Specialization In Engineering And Engineering Trades Not Further Defined” is used for any specialization or program belonging to the narrow field “Engineering And Engineering Trades”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Chemical Engineering And Processes (0711)

Specialization
Name

Chemical Engineering (071101)

Definition

This specialization aims to provide the student with the knowledge and skills to design, develop, analyze, model chemical processes, control industrial and transformative processes, design and build plants that depend on chemical reactions. It also covers designing and planning processes for the production of chemicals, fuel, food and pharmaceutical and biological preparations, and managing and operating plants, including conducting safety, risk, and environmental assessments.

Other Specializations Included In The Definition

- Petrochemical Engineering
- Petroleum And Petrochemical Industries
- Chemical And Petrochemical Industries
- Plastic Engineering
- Polymer Engineering
- Transition Phenomena
- Control And Systems
- Chemical Industries
- Bioprocess Engineering
- Process Configurations And Control
- Water Desalination Engineering
- Desalination And Water Treatment
- Water And Desalination Sustainability

Important Courses Under This Specialization

- Physical chemistry
- Materials science
- Modeling and simulation
- Engineering of oil and natural gas refineries
- Safety in the chemical industry
- Desalination and water treatment

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Chemical Engineering And Processes (0711)

Specialization
Name

Chemical Engineering Technology (071102)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies necessary to work in the applied aspect of the chemical engineering field. It also covers the study of operations, production related to the chemical industry, testing, chemical metrics, methods of analyzing chemical metrics results, personal and environmental safety procedures, and how to maintain them.

Other Specializations Included In The Definition

- Chemical Production
- Polymers Engineering Technology
- Chemical Engineering Technology
- Industrial Chemistry Technology
- Chemical Process And Analysis Technology

Important Courses Under This Specialization

- Principles of chemical technology
- Applied fluids' flow
- Applied heat transfer
- Applied mechanical separations
- Chemical metrics and control
- Chemical analysis

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Chemical Engineering And Processes (0711)

Specialization
Name

Materials Engineering (071103)

Definition

This specialization aims to provide the student with the essential knowledge and skills to study and analyze the components and behavior of materials and different production methods. Likewise, physical, chemical and mechanical properties of materials of all kinds and identify their engineering and industrial applications. It also aims to enable the student to choose materials suitable for different applications and methods of developing these materials to obtain new properties and know the production methods and manufacture of different materials.

Other Specializations Included In The Definition

- Materials Engineering (Chemistry)

Important Courses Under This Specialization

- Processing inorganic materials
- Chip engineering and technology
- Thermodynamics of materials
- Mechanical behavior of materials
- Modeling in materials science
- Chemical and mechanical failure of materials

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Chemical Engineering And Processes (0711)

Specialization
Name

Material Engineering Technology (071104)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies necessary to work in the applied aspect of the materials engineering field. It deals with materials selection and testing processes, monitoring of manufacturing and welding of materials in various industries, and the study of structures, functional characteristics of polymers, minerals, ceramic, composite materials and recognizing their behaviors.

Important Courses Under This Specialization

- Chemical processes
- Metal welding and processing processes
- Non-metallic materials
- Corrosion
- Nanotechnology
- Thermal coefficients

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Chemical Engineering And Processes (0711)

Specialization
Name

Nuclear Engineering (071105)

Definition

This specialization aims to provide the student with the essential knowledge and skills to design, operate and maintain nuclear material systems and applications such as power generation reactors, nuclear weapons, radiation diagnostic and treatment devices, radioactive food handling, safe disposal of radioactive waste and radiation protection.

Other Specializations Included In The Definition

- Nuclear Power Engineering
- Radiation Protection Engineering

Important Courses Under This Specialization

- Engineering of nuclear reactors
- Radiological laboratories
- Economics of nuclear energy
- Medical applications of radioactive materials
- Radiation protection

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Chemical Engineering And Processes (0711)

Specialization
Name

Nuclear Engineering Technology (071106)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies necessary to work in the applied aspect of nuclear engineering. It also covers installation, operation, maintenance of nuclear reactors, handling radioactive materials, disposal of dangerous waste, paying attention to safety measures in this field, and contributing to the design, construction, and operation of nuclear plants.

Important Courses Under This Specialization

- Nuclear physics
- Introduction to nuclear engineering
- Radiation detection and measurement
- Radiation protection
- Nuclear reactor theory
- Software applications for nuclear engineering

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Environmental Protection Technology (0712)

Specialization
Name

Environmental Engineering (071201)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, design and supervise engineering works and projects related to the environment, such as designing water networks, wastewater treatment, industrial and public waste treatment, preserving water and energy resources, improving quality of life and maintaining public health.

Other Specializations Included In The Definition

- Environmental Science And Engineering
- Environmental Science And Water Engineering
- Environmental Pollution Control

Important Courses Under This Specialization

- Environmental chemistry
- Solid and hazardous waste management
- Irrigation and drainage engineering
- Engineering risk analysis
- Air pollution and noise
- Wastewater treatment

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electricity And Energy (0713)

Specialization
Name

Electrical Engineering (071301)

Definition

This specialization aims to provide the student with the essential knowledge and skills to design, analyze and develop various electrical systems such as electronic circuits and systems, communication systems, generation and transmission systems of electric forces, automatic control systems and smart systems.

Other Specializations Included In The Definition

- Electrical Power Engineering
- Electrical Engineering And Computers
- Power Engineering And Electrical Machines
- Electrical Machinery And Power Electronics
- Air Conditioning And Refrigeration Engineering

Important Courses Under This Specialization

- Principles and analysis of electrical circuits
- Electromagnetism engineering
- Signal and systems analysis
- Microelectronic devices and circuits
- Communication theory and systems

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electricity And Energy (0713)

Specialization
Name

Energy Engineering (071302)

Definition

This specialization aims to provide the student with the knowledge and skills to design, analyze, develop and control the various energy systems, to ensure achieving efficiency, safety and economic feasibility. It also seeks to enable the student to design, develop, and measure renewable energy systems from various sources (solar energy, hydropower, wind energy, etc.).

Other Specializations Included In The Definition

- Energy And Resources
- Energy And Thermal Engineering
- Renewable Energy Engineering
- Sustainable Energy
- Electrical Distribution Systems Engineering
- Power Systems Engineering
- Sustainable Energy
- Solar Energy
- Smart Networks

Important Courses Under This Specialization

- Principles of power systems
- Electromechanical energy conversion
- Power systems analysis
- Electrical power distribution systems
- High voltage systems
- Electrical network protection systems

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electricity And Energy (0713)

Specialization
Name

Energy Engineering Technology (071303)

Definition

This specialization aims to provide the student with the knowledge and skills to work in the applied aspect of energy engineering. This field also deals with monitoring, maintenance, and supervision of the generation and transmission of various energy forms efficiently, safely, and economically viable.

Other Specializations Included In The Definition

- Energy Technology
- Solar Technology
- Renewable Energy Technology
- Wind Power Technology
- Hydrogen Energy Technology
- Power System Relay

Important Courses Under This Specialization

- Electromagnetism
- Electrical technologies
- Power transmission
- Power plant safety

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electricity And Energy (0713)

Specialization
Name

Electrical Engineering Technology (071304)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies to work in the applied aspect of electrical engineering. It deals with the study of generation, transmission, distribution, operation, control and maintenance of electric power systems, equipment, devices, electrical machinery, control and renewable energy.

Other Specializations Included In The Definition

- Electrical Machinery Technology
- Electric Powers And Machines
- Electric Power Technology
- Electric Power Engineering Technology
- Electrical Maintenance Technology
- Electrical Maintenance
- Electrical Maintenance Of Transfer Stations
- Electrical Maintenance Of Generating Stations
- Transmission Lines Maintenance
- Maintenance Of Electrical Distribution
- Networks
- Operation Of Electrical Networks
- Protection And Control Of The Electrical System
- Operation Of Gas Generating Stations
- Electric Control Panel Operator
- Electrical Systems At Airports
- Electrical Cables
- Electrical Machines And Equipment
- Electrical Engineering Drawing
- General Electrical Installations
- Home Electrical Installations
- Industrial Electrical Installations
- Electrical Systems
- Maintenance Of Home Appliances
- Electricity And Electronics
- Inspection Technology - Electrical Engineering
- Cooling And Air-Conditioning Engineering Technology
- Air Conditioning And Refrigeration Maintenance
- Refrigeration & Air Conditioning

Important Courses Under This Specialization

- Circuit analysis
- Protection of electrical power systems
- Electrical devices and measurements
- Programmed control
- Control of electric motors
- Electrical engineering drawing

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electronics And Automation (0714)

Specialization
Name

Electronic Engineering (071401)

Definition

This specialization aims to provide the student with the knowledge and skills to design, analyze, and develop systems, electronic circuits, and communication systems and use them in various engineering applications.

Other Specializations Included In The Definition

- Electronics And Communication Engineering
- Electronics And Electrical Engineering
- Electronics And Measurement Engineering
- Microelectronics
- Communications Engineering
- Telecommunications

Important Courses Under This Specialization

- Microprocessors and Microcontrollers
- Communication theory
- Optical communications
- Microelectronic devices and circuits
- Signal and systems analysis
- Microwave engineering

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electronics And Automation (0714)

Specialization
Name

Electronics And Communication Engineering Technology (071402)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies necessary to work in the applied aspect of electronic engineering. It covers electronics such as analog and digital pulses, signals and systems, computer-aided technical design, sensors, measurement systems, embedded systems, optoelectronics, digital system design, electromechanical systems, process control, digital control systems, robots and artificial intelligence.

Other Specializations Included In The Definition

- Communication Engineering Technology
- Communication Networks
- Industrial Electronics And Control
- Electronics Engineering Technology
- Electronics Maintenance
- Smart Devices Maintenance
- Technical Studies And Communication Systems
- Communications And Signals
- Signal Maintenance And Telecommunications

Important Courses Under This Specialization

- Circuit analysis
- Computer aided design
- Analogue and digital electronic circuits
- Signals and systems

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electronics And Automation (0714)

Specialization
Name

Control & Instrumentation Systems Engineering (071403)

Definition

This specialization aims to provide the student with the knowledge and skills to analyze and design measurement and automatic control systems for engineering systems and industrial processes. It also includes operating and maintaining their equipment so that system or machine can work as required in all areas of manufacturing and engineering services such as the petrochemical industry, iron industry, energy systems, and others, as well as automation of water supply and irrigation systems.

Other Specializations Included In The Definition

- Computer And Control Systems
- Instrumentation Engineering
- Instrumentation And Control Engineering
- Automation And Control Engineering
- Control And Smart Systems
- Instrumentation And Control
- Control And Robotic Systems
- Automatic Control And Computers
- Laboratory Precision Measurement Equipment
- Control Systems And Mechanisms

Important Courses Under This Specialization

- Automatic control theories
- Engineering systems modeling and simulation
- Robotics applications in the industry
- Industrial process control
- Engineering measuring devices

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electronics And Automation (0714)

Specialization
Name

Control And Automation Engineering Technology (071404)

Definition

This specialization aims to provide the student with the necessary knowledge and skills to work in the applied aspect of the industrial automation field. It covers operating, controlling and maintaining computer-based control systems for managing industrial machines and processes and their automation.

Other Specializations Included In The Definition

- Control Engineering Technology
- Instrumentation Engineering Technology
- Instrumentation Technology And Control

Important Courses Under This Specialization

- Principles of electronics
- Applied electrical circuits
- Control systems
- Plant control applications

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electronics And Automation (0714)

Specialization
Name

Computer Engineering (071405)

Definition

This specialization aims to provide the student with the essential skills to design, analyze and develop individual microcontrollers, microprocessors, personal computers, supercomputers, electrical circuit design, and super-integrated circuit chips. It also seeks to enable the student to design analog sensors, design mixed-signal printed circuit boards, design operating systems, as well as the ability to program embedded systems and network engineering.

Other Specializations Included In The Definition

- Computer And Network Engineering
- Digital Systems
- Robots
- Educational Robots
- Intelligent Pipeline Transportation Systems (Hyperloop)
- Self-Driving Transportation
- Sensor Systems Engineering

Important Courses Under This Specialization

- Electrical circuits
- Computer architecture
- Network engineering
- Design and programming of embedded systems
- Logical design

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electronics And Automation (0714)

Specialization
Name

Computer Engineering Technology (071406)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies necessary to work in the applied aspect of computer engineering. It covers the examination, control, follow-up, implementation, maintenance, and quality assurance of computers and related devices, computer assembly, maintenance, operation, and electronic circuit design principles.

Other Specializations Included In The Definition

- Computer Maintenance

Important Courses Under This Specialization

- Computer electronics
- Digital electronics
- AC circuits
- Micro processors

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electronics And Automation (0714)

Specialization
Name

Network Engineering (071407)

Definition

This specialization aims to provide the student with the knowledge and skills to design, install, operate, configure and maintain computer networks, evaluate performance, identify faults and perform maintenance operations on network components such as routers, switches and cables. It also focuses on networking functions, software components, applications, types and methods of protection, in addition to designing, installing, configuring cloud infrastructure and designing and installing data centers.

Other Specializations Included In The Definition

- Network And Communications Engineering
- Network Engineering And Security
- Network And Communication Systems
- Networking And Security
- Networks And Communication Systems
- Computer Networks
- Computer Engineering And Networks

Important Courses Under This Specialization

- Data center design
- Design and implementation of virtual networks
- Cloud infrastructure design
- Routers and switches engineering

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Electronics And Automation (0714)

Specialization
Name

Network Engineering Technology (071408)

Definition

This specialization aims to provide the student with the knowledge and skills necessary to work in the applied aspect of network engineering. It addresses the competencies offered in Cisco Certification (CCNP), networking media, VoIP technology, information security and systems management.

Other Specializations Included In The Definition

- Network And Communications Engineering Technology
- Network Systems Support Engineering

Important Courses Under This Specialization

- Networking media
- Advanced routers technologies
- Network and information security
- Advanced switching technologies
- Open source network systems
- Networking

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Mechanics And Metal Trades (0715)

Specialization
Name

Mechanical Engineering (071501)

Definition

This specialization aims to provide the student with the essential knowledge and skills to design various mechanical parts under limited safety standards. It also deals with the design, development, manufacture, installation and operation of mechanical systems, including power and desalination plants and pipelines.

Other Specializations Included In The Definition

- Mechanical Engineering And Energy
- Mechanical Power Engineering
- Production Engineering And Mechanical Systems Design
- Manufacturing Engineering And Mechanical Design
- Mechanical Engineering - Manufacturing Materials
- Design And Applied Mechanics
- Solid Mechanics
- Dynamics And Control
- Metal Engineering
- Metallurgical Engineering
- Thermal Engineering
- Thermal Engineering And Water Desalination Technology
- Fluids
- Thermals
- Heat And Fluids
- Jet Propulsion Systems
- Thermals And Fluids Systems

Important Courses Under This Specialization

- Heat and fluids
- Solid mechanics
- Materials engineering
- Dynamics and control
- Engineering mechanical design
- Computer aided design
- Measurements and quality control

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Mechanics And Metal Trades (0715)

Specialization
Name

Mechanical Engineering Technology (071502)

Definition

This specialization aims to provide the student with the essential knowledge, skills and competencies to work in the applied side of mechanical engineering. It also addresses the study of manufacturing, installation, operation, control, inspection, and maintenance of engines, machines, manufacturing systems and various mechanical production work.

Other Specializations Included In The Definition

- Engineering Technology Of Production And Designing Mechanical Systems
- Planning And Operation Of Machines
- Engineering Technology Of Non-Destructive Testing And Evaluation
- Non-Destructive Testing Technology
- Mechanical Examination
- Pneumatic And Hydraulic Systems
- Industrial Pipes Connection
- Pipes Works
- Pipes Extension
- Pipes Connection
- Industrial Welding
- Welding And Turning
- Turning And Forming Metals
- Maintenance Engineering Technology
- Mechanical Maintenance
- Maintenance Of Production Equipment
- Maintenance Of Industrial Machines
- 3D Printing Technology
- Inspection Technology - Mechanics
- Inspection Technology - Non-Destructive Tests
- Inspection Technology - Welding
- Computer Aided Design (Mechanics)
- Mechanical Production
- Production Technology
- Production Lines Operation
- Thermal Coefficients Technology

Important Courses Under This Specialization

- Lean manufacturing
- Computer-aided manufacturing
- Computer-aided design
- Mechanical maintenance
- Turning and cylindrical grinding technology
- Surface milling and grinding technology

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Motor Vehicles, Ships And Aircraft (0716)

Specialization
Name

Aviation Engineering (071601)

Definition

This specialization focuses on studying the movement of objects in the atmosphere and outside the Earth's atmosphere, such as planes of all kinds, projectiles, spacecraft and satellites, etc. It also covers design, manufacture, development, testing, maintenance and control of aircraft, along with shells, spacecraft and satellites, how to launch them into their specific orbit and study their balance and different effects to be considered to keep satellites as long as possible, in order to do their jobs and finish their tasks for which they were launched.

Other Specializations Included In The Definition

- Aerospace Engineering
- Space Engineering
- Aerospace Engineering
- Space Mining
- Aircraft Electrical Systems And Instrumentation
- Aircraft Maintenance
- Military Aircraft Maintenance
- Drones Maintenance
- Aircraft Mechanics
- Aircraft Electronics
- Maintenance Of Fuel Devices
- Metal Technology
- Maintenance Of Liquid
- And Air Pressure Aircraft Equipment
- Maintenance Of Jet Engines
- Maintenance Analysis
- Aircraft Structural Maintenance

Important Courses Under This Specialization

- Mechanical design
- Engineering mechanics (kinesiology)
- Aerodynamics for low and high speeds
- Aircraft engines
- Aircraft structures
- Orbit mechanics

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Motor Vehicles, Ships And Aircraft (0716)

Specialization
Name

Marine Engineering (071602)

Definition

This specialization aims to provide the student with the knowledge and skills to carry out the operations, maintenance, and repair of marine equipment onboard ships, navigation companies, dry docks, and building and repair ships, and to be familiar with shipbuilding and architecting skills, maritime safety and environmental protection.

Important Courses Under This Specialization

- Hydromechanics
- Ship design and building
- Marine diesel engines
- Thermodynamics and heat transfer
- Ships electricity
- Marine safety

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Motor Vehicles, Ships And Aircraft (0716)

Specialization
Name

Marine Engineering Technology (071603)

Definition

This specialization aims to provide the student with the essential knowledge and skills to work in the applied side of marine engineering. It also deals with operating, monitoring, and conducting standard tests, maintaining various types of ships, marine engines, and the basics and applications of electrical, mechanical, energy engineering, and marine architecture.

Other Specializations Included In The Definition

- Marine Mechanics
- Marine Electricity And Electronics
- Marine Engine Technology

Important Courses Under This Specialization

- Principles of Hydraulic and electrical control
- Maintenance of diesel engines
- Shipyards technology (cutting, shaping, welding, painting, ship launching and ship lifting operations)
- Ship propulsion and steering systems.

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Motor Vehicles, Ships And Aircraft (0716)

Specialization
Name

Engines And Vehicles (071604)

Definition

This specialization aims to provide the student with the essential knowledge and skills to operate and maintain different engines and vehicles; It also addresses the study of mechanics, electricity, vehicle electronics, and their systems and components' working methods. It focuses on methods of testing vehicles periodically to diagnose faults.

Other Specializations Included In The Definition

- Maintenance Of Heavy Machinery
- Car Electrics
- Car Maintenance
- Agricultural Machines And Power Engineering
- Car Mechanics
- Maintenance Of Locomotives And Wagons
- Control And Safety In Cars

Important Courses Under This Specialization

- Principles of automotive technology
- Car engines
- Brake system
- Power transmission system

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Motor Vehicles, Ships And Aircraft (0716)

Specialization
Name

Vehicle Engineering Technology (071605)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies necessary to work in the applied aspect of engines and vehicles. It covers testing, maintenance, development and assembly of components, parts, various systems of vehicles and other machines. It also deals with modern technologies used in engines such as electric cars, sustainable energy usage, and technologies used in the testing and maintenance of systems and mechanical components of the vehicle.

Important Courses Under This Specialization

- Internal combustion engine
- Computer aided simulation and modelling
- Advanced engine management and emission control
- Brake system
- Automotive electrical and electronic systems

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Other Programs In Engineering And Engineering Trades Not Further Defined (0719)

Specialization
Name

Biomedical Engineering (071901)

Definition

This specialization aims to provide the student with the essential knowledge and skills to design, develop, test and maintain devices, equipment and materials used in the diagnosis, treatment and prevention of various diseases. This specialization addresses the design and development of prosthetic devices, assistance to patients and those used in the rehabilitation of people with special needs.

Other Specializations Included In The Definition

- Medical Devices
- Biomedical Devices Technology
- Biomedical Technology

Important Courses Under This Specialization

- Introduction to physiology
- Medical imaging system
- Medical control systems
- Principles and analysis of electrical circuits
- Electrical engineering electromagnetism
- Biomaterials

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Other Programs In Engineering And Engineering Trades Not Further Defined (0719)

Specialization
Name

Medical Devices Engineering Technology (071902)

Definition

This specialization aims to provide the student with the essential knowledge and skills to design, develop, test, and maintain devices, equipment, and materials used to diagnose, treat, and prevent various diseases. This specialization addresses the design and development of prosthetic devices, assistance to patients and those used to rehabilitate people with special needs.

Important Courses Under This Specialization

- Biomechanics and biomaterials
- Integrated systems
- Biomedical devices control system
- Computer aided design in biomedical technology

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Other Programs In Engineering And Engineering Trades Not Further Defined (0719)

Specialization
Name

Industrial & Systems Engineering (071903)

Definition

This specialization aims to provide the student with the essential knowledge and skills to work in the applied aspect of industrial engineering and systems. It addresses the control and supervision of industrial processes and services to achieve high efficiency and optimal resource use at the lowest cost. It also includes planning the production, maintenance work, warehouse management and quality control of products and services.

Other Specializations Included In The Definition

- Industrial Engineering
- Manufacturing Systems Engineering
- Engineering of Manufacturing Systems
- Production And Manufacturing Engineering
- Production Engineering
- Manufacturing Engineering
- Fire Protection Engineering
- Occupational Safety Engineering
- Quality Engineering And Management
- Maintenance Engineering And Management
- Systems Engineering
- Systems & Control Engineering
- Industrial Process Systems And Logistics
- Human Factors And Safety Engineering

Important Courses Under This Specialization

- Industrial systems simulation
- Production planning and control
- Industrial quality control
- Human factors engineering
- Industrial process analysis
- Reliability and maintenance engineering

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

Detailed
Field

Other Programs In Engineering And Engineering Trades Not Further Defined (0719)

Specialization
Name

Industrial Engineering Technology (071904)

Definition

This specialization aims to provide the student with the essential knowledge and skills to work in the applied aspect of industrial engineering and systems. It addresses the control and supervision of industrial processes and services to achieve high efficiency, optimal use of resources at the lowest cost. It also enables the student to contribute to plan the production, maintenance work, stocks and warehouse management and quality control of products and services.

Other Specializations Included In The Definition

- Manufacturing Engineering Technology
- Industrial Systems Engineering Technology
- Production Engineering Technology
- Manufacturing Systems Engineering Technology
- Production And Manufacturing
- Safety And Fire Protection Technology
- Safety Technology
- Safety Engineering Technology
- Preparing And Loading

Important Courses Under This Specialization

- Materials and processing technologies
- Manufacturing systems and electromechanical systems
- Industrial supervision
- Industrial safety
- Metrology and engineering measurements

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Engineering And Engineering Trades (071)**

**Detailed
Field**

**Other Programs In Engineering And Engineering Trades Not
Further Defined (0719)**

**Specialization
Name**

**Other Specializations In Engineering And Engineering Trades Not
Elsewhere Classified (071999)**

Definition

The code (Other Specializations In Engineering And Engineering Trades Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Engineering And Engineering Trades” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

**Detailed
Field**

**Programs In Manufacturing And Processing Not Further
Defined (0720)**

**Specialization
Name**

**Specialization In Manufacturing And Processing Not Further Defined
(072000)**

Definition

The code “Specialization In Manufacturing And Processing Not Further Defined” is used for any specialization or program belonging to the narrow field “Manufacturing And Processing”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Food Processing (0721)

Specialization
Name

Food Industry Engineering (072101)

Definition

This specialization aims to provide the student with the essential knowledge and skills to plan, operate, evaluate and developing industrial processes used in the production, wrapping and packaging of various food products. It also supervises the maintenance of equipment and machinery used in production lines, as well as ensuring quality control procedures and pollution-free.

Other Specializations Included In The Definition

- Nutrition And Food Technology
- Equipment Maintenance (Food Manufacturing)
- Food And Dairy Technology
- Bakery
- Dairy
- Milk Production
- Poultry Industry
- Food Processing

Important Courses Under This Specialization

- Industrial microbiology
- Material and energy balance
- Measuring instrument
- Quality control of production lines
- Biotechnology for the food industry

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Food Processing (0721)

Specialization
Name

Nutrition And Food Science (072102)

Definition

This specialization aims to provide the student with the knowledge and skills to analyze, examine and evaluate foods and food products, ensure their safety, free from contamination, implement health and food safety regulations and raise awareness. It also addresses the health requirements of facilities that provide food products and services and how to prepare and deliver food safely and securely. It also focuses on carrying out investigations in cases of food poisoning, epidemics and working to limit their spread.

Other Specializations Included In The Definition

- Food Safety
- Food Preservation
- Quality And Safety Of Food
- Nutrition Sciences
- Nutrition And Food
- Food Science And Human Nutrition
- Food And Nutrition
- Food Safety And Quality Control
- Safety And Health Of Food
- Food Sciences And Technology

Important Courses Under This Specialization

- Food microbiology
- Principles of food preservation
- Food chemistry and analysis
- Meals planning
- Food quality control

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Materials (Glass, Paper, Plastic And Wood) (0722)

Specialization
Name

Plastic Manufacturing Technology (072201)

Definition

This specialization aims to provide the student with the essential knowledge, skills and competencies about the design and manufacture of plastic products and to identify common mistakes committed during manufacturing processes leading to their failure. This specialization addresses studying types of plastics, their characteristics, advantages, disadvantages and industrial processes that contribute to the manufacture and treatment of plastics and operating various plastic forming machines in the manufacturing sector.

Important Courses Under This Specialization

- Chemical properties of plastic
- Injection modeling and film formation
- Tube forming
- Polymers
- Principles of packaging technologies
- Packaging and plastic designs

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Materials (Glass, Paper, Plastic And Wood) (0722)

Specialization
Name

Rubber Manufacturing Technology (072202)

Definition

This specialization aims to provide the student with the essential knowledge, skills and competencies about the rubber manufacturing processes and technologies, starting from selecting materials to installing and heat-treatment, then converting into rubber products and testing their quality. It covers explaining the components of rubber, different types, characteristics, advantages and disadvantages of each kind and technologies involved in methods of manufacturing and producing rubber products.

Important Courses Under This Specialization

- Physical and mechanical properties of rubber
- Rubber decay test
- Chemical analysis of rubber
- Rubber blending
- Rubber manufacturing
- Rubber technologies

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Materials (Glass, Paper, Plastic And Wood) (0722)

Specialization
Name

Paper Production And Packaging Technology (072203)

Definition

This specialization aims to provide the student with the knowledge, skills, and competencies about papermaking stages, paper products, raw materials used, bleaching methods, and conversion of other paper products (such as paperboard, tissues and notebooks). It also deals with studying the machines used in these processes and ways to ensure the quality of products.

Important Courses Under This Specialization

- Paper recycling
- Packaging technology
- Measuring hand tools
- Printing technologies
- Packaging and production materials.
- Development of printing, packaging and quality processes

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Materials (Glass, Paper, Plastic And Wood) (0722)

Specialization
Name

Glass Products Manufacturing (072204)

Definition

This specialization aims to provide the student with the essential knowledge, skills, and competencies about designing and manufacturing glass products (such as mirrors, containers, and glassware). It covers how to obtain glass from silicon sands or recycling glass waste and how to form and shape glass, in addition to studying properties of glass, advantages and disadvantages, color, decorations and design.

Important Courses Under This Specialization

- Glass properties
- Principles and technologies of the glass manufacturing
- Glass design and coating
- Glass restoration
- Lead glass
- Glass mixture compositions

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Materials (Glass, Paper, Plastic And Wood) (0722)

Specialization
Name

Ceramic Products Manufacturing (072205)

Definition

This specialization aims to provide the student with the knowledge and skills to manufacture, innovate and shape ceramic products such as pottery, refractory products, china glassware, ceramic sanitary ware, porcelain and tiles, clay formation processes, burn-in specialized ovens and glaze. This specialization addresses the art of ceramics, its types, materials, natural properties, methods of preparation and formation; studying aesthetic, functional and innovative aspects of ceramic forming processes.

Important Courses Under This Specialization

- Porcelain design
- Artistic porcelain design
- Industrial porcelain design
- Architectural porcelain design
- Porcelain design views
- Porcelain restoration

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Materials (Glass, Paper, Plastic And Wood) (0722)

Specialization
Name

Building Stone Manufacturing (072206)

Definition

This specialization aims to provide the student with the essential knowledge, skills and competencies to design and manufacture the stone used in construction. It covers the study of properties and defects of building stone, preparing stone molds, their constituent materials, and using mixing and drying processes.

Important Courses Under This Specialization

- Petrification technology
- Stone properties and testing
- Stone and marble manufacturing processes
- Stone maintenance and restoration

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Textiles (Clothes, Footwear And Leather) (0723)

Specialization
Name

Clothes And Fabric (072301)

Definition

This specialization aims to provide the student with the essential knowledge and skills to design, produce and market clothing of all kinds. It is also interested in studying the types of fabric sewing, dyeing and engraving, in addition to learning about the tools and devices used in the garment and textile industry.

Other Specializations Included In The Definition

- Tailoring & Dressmaking Technology
- Sewing And Production Of Clothing
- Design And Production Of Clothing
- Manufacture Of Clothes

Important Courses Under This Specialization

- Textile chemistry
- Ready-to-wear garment technologies
- Automated embroidery
- Manual embroidery, “knitting and crochet”
- Fashion design
- Fabric decoration methods

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Textiles (Clothes, Footwear And Leather) (0723)

Specialization
Name

Leather And Accessories Industries (072302)

Definition

This specialization aims to provide the student with the essential knowledge, skills and technologies to design and implement leather products and accessories such as shoes, bags, brushes, fashion, artworks, etc. It covers materials, tools, leather technologies and how to turn them into a product, either automatic or manual, besides studying various appropriate dye development technologies, testing samples by devices and specialized chemicals.

Important Courses Under This Specialization

- Principles of design
- Leather industry
- Fashion accessories
- Leather accessories
- Leather materials
- Leather decoration styles

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Mining And Extraction (0724)

Specialization
Name

Mining Engineering (072401)

Definition

This specialization aims to provide the student with the essential knowledge and skills to design, develop, evaluate, and run mineral extraction operations from the ground, and treat them. It deals with all mining operations, such as economic feasibility study, designing mines, developing plans, exploring mineral resources, and operations production and closing of mines.

Other Specializations Included In The Definition

- Mining Technology
- Mineral Ores Processing Technology
- Surface Mining
- Underground Mining

Important Courses Under This Specialization

- Natural geology
- Field mining applications
- Surface and subsurface mining engineering
- Processing of mineral ores

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Mining And Extraction (0724)

Specialization
Name

Oil And Natural Gas Engineering (072402)

Definition

This specialization aims to provide the student with the essential knowledge and skills on methods of researching oil reservoirs, natural gas, well drilling, oil and natural gas extraction. This specialization addresses methods of analyzing geological data for exploration of oil and natural gas reservoirs, economic feasibility, drilling and production engineering, inventory engineering, maintenance and operation of wells and oil and gas reservoirs.

Other Specializations Included In The Definition

- Oil And Natural Gas Production Engineering
- Drilling Oil Wells And Natural Gas Engineering
- Oil And Natural Gas Reservoir Engineering

Important Courses Under This Specialization

- Oil and natural gas exploration Engineering
- Natural gas production engineering
- Production of naturally flowing wells
- Reservoir simulation
- Inclined and horizontal drilling and control of wells

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

Detailed
Field

Mining And Extraction (0724)

Specialization
Name

Oil And Natural Gas Engineering Technology (072403)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies to work in the applied side of oil and natural gas engineering. It seeks to assist the student in search operations for oil and natural gas reservoirs, drilling wells, extracting oil and natural gas, evaluating oil and natural gas wells and supervising oil and natural gas extraction processes economically and safely.

Other Specializations Included In The Definition

- Drilling Engineering Technology
- Drilling (Oil)

Important Courses Under This Specialization

- Introduction to geosciences
- Drilling technologies
- Oil and natural gas production operations
- Engineering of oil tanks
- Occupational health and safety in the workplace

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Manufacturing And Processing (072)**

**Detailed
Field**

**Other Programs In Manufacturing And Processing Not Further
Defined (0729)**

**Specialization
Name**

**Other Specializations In Manufacturing And Processing Not
Elsewhere Classified (072999)**

Definition

The code (Other Specializations In Manufacturing And Processing Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Manufacturing and Processing” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

**Detailed
Field**

**Programs In Architecture And Construction Not Further
Defined (0730)**

**Specialization
Name**

**Specialization In Architecture And Construction Not Further Defined
(073000)**

Definition

The code “Specialization In Architecture And Construction Not Further Defined” is used for any specialization or program belonging to the narrow field “Architecture And Construction”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Architecture And Town Planning (0731)

Specialization
Name

Construction Management And Engineering (073101)

Definition

This specialization aims to provide the student with the knowledge and skills to supervise the implementation of architectural works, finishes for buildings and installations, familiarity with supervision and follow-up of construction, electrical, mechanical, sanitary, fire protection, quantitative calculations and executive architectural drawings for executed works, management of construction projects, construction contracts and preparation of technical reports in construction works.

Other Specializations Included In The Definition

- Constructions And Projects
- Engineering Management - Construction & Building

Important Courses Under This Specialization

- Project phases planning, scheduling and control
- Costing and building economics
- Stages of construction, productivity and simulation of building processes
- Risk management and quality management

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Architecture And Town Planning (0731)

Specialization
Name

Architectural Engineering (073102)

Definition

This specialization aims to provide the student with the knowledge and skills to design buildings and structures of all kinds. It covers preparation of designs, drawings, architectural plans, technical specifications for building materials, bill of quantities for architectural works items, familiarity with studies, structural systems, electrical, mechanical and sanitary installations, fire protection, lighting, acoustics, building materials and technologies for buildings and facilities.

Other Specializations Included In The Definition

- Construction Technology And Sciences
- Buildings Engineering
- Construction Engineering
- Building Construction
- Construction Technology
- Buildings Maintenance

Important Courses Under This Specialization

- Building materials
- Architecture Engineering
- Buildings electrical and mechanical systems
- Architecture design and drawing software
- Buildings studies and architectural analysis

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Architecture And Town Planning (0731)

Specialization
Name

Architectural Engineering Technology (073103)

Definition

This specialization aims to provide the student with the knowledge and skills to work in the applied side of the architecture engineering fields. It addresses preparing architectural drawings by computer, preparing specifications for the building, calculating quantities, supervising finishing works, ensuring implementation of approved specifications in building's work in general and finishes in particular.

Other Specializations Included In The Definition

- Architectural Technology
- Architecture Technology
- Architecture And Construction Technology
- Architectural Constructions

Important Courses Under This Specialization

- Architectural drawing
- Building systems
- Quantities and specifications
- Architectural figures

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Architecture And Town Planning (0731)

Specialization
Name

Architecture (073104)

Definition

This specialization aims to provide the student with the knowledge and skills to design buildings and facilities of all kinds. This specialization addresses preparing designs, drawings, architectural plans, technical specifications for building materials and bill of quantities for architectural business items bearing in mind climatic, environmental, customs and traditional factors of local community, functional and aesthetic aspects of buildings and installations.

Other Specializations Included In The Definition

- Architecture And Planning
- Architecture And Construction Sciences
- Urban Design
- Architecture Design
- Sites Engineering And Coordination
- Islamic Architecture
- Environmental Design
- Environmental Architectural Engineering
- Environmental Architecture
- History And Theories Of Architecture
- Interior Architecture Engineering
- Preserving The Architectural Heritage
- Housing
- Urban Design
- Sustainable Architecture
- Architectural Management
- Design Of Health Institutions

Important Courses Under This Specialization

- Theories of architecture
- Architectural design
- Building regulations
- History of architecture
- Architecture design and drawing software

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Architecture And Town Planning (0731)

Specialization
Name

Urban And Regional Planning (073105)

Definition

This specialization aims to provide the student with the knowledge and skills to plan cities, villages and urban areas in terms of distribution land uses as sites for residential, industrial, commercial, educational, recreational and service areas and public utilities, taking into account the natural, urban, economic, social, environmental, heritage, transportation and traffic of areas. It also deals with preparing structural and detailed plans, controls, requirements and stages of implementation.

Other Specializations Included In The Definition

- Urban Planning
- City Planning
- City And Regional Planning
- Real Estate Development
- Urban And Regional Management And Real Estate Development
- Environmental Control
- Urban And Regional Planning Engineering

Important Courses Under This Specialization

- History and theories of planning
- Planning urban transportation
- Regional planning
- Scanning, analysis, graphics and schematic maps
- Site analysis
- Land uses

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Architecture And Town Planning (0731)

Specialization
Name

Surveying Engineering (073106)

Definition

This specialization aims to provide the student with the knowledge and skills to make measurements, collect and analyze data, produce maps and interpret satellite images. It addresses the use of modern technologies, such as electronic surveying devices, satellites and computers, in collecting and analyzing information to represent natural places such as mountains, seas and plateaus and determining their shapes, dimensions, borders, contents and elevations, as well as the representation of civil installations, such as buildings and roads.

Other Specializations Included In The Definition

- Surveying Engineering

Important Courses Under This Specialization

- Geodetic survey
- Photogrammetry
- Remote sensing
- Cartography and geographic information systems
- Flat area
- Topographic survey

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Architecture And Town Planning (0731)

Specialization
Name

Surveying Engineering Technology (073107)

Definition

This specialization aims to provide the student with the knowledge and skills to work in the applied side of the field of surveying engineering. This specialization addresses fields of geomatics such as geodesy, error theory and correction, map-making and projection, geographic information systems, spatial databases, mineral scanning, hydrographic survey, remote sensing and digital imaging and computer applications used in surveying operations.

Other Specializations Included In The Definition

- Surveying
- Quantity Surveying

Important Courses Under This Specialization

- Geodesy
- Map making and projections
- Geographical information analysis
- Hydrographic survey
- Spatial databases

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Architecture And Town Planning (0731)

Specialization
Name

Marine Surveying (073108)

Definition

This specialization aims to provide the student with the knowledge and skills about methods of data collection, marine information, systems and management. It also deals with the basics of the marine survey to determine depths and locations, make hydrographic and navigation maps, maintain maritime safety, maintain marine and navigation safety and protect the environment.

Other Specializations Included In The Definition

- Marine Surveying

Important Courses Under This Specialization

- Principles of surveying
- Underwater positioning systems
- Control methods and data analysis
- Geodesy and maps projections
- Measurement of databases of bathymetry

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Building And Civil Engineering (0732)

Specialization
Name

Civil Engineering (073201)

Definition

This specialization aims to provide the student with the essential knowledge and skills to build, develop and maintain various types of installations, such as buildings, roads, bridges, tunnels, airports, ports and establishment of sewage networks, dams, with high quality and at the lowest possible cost.

Other Specializations Included In The Definition

- Civil And Environmental Engineering
- Civil Engineering - Ports
- Civil Engineering - Airports

Important Courses Under This Specialization

- Foundations engineering
- Properties and testing of structural materials
- Hydraulics
- Construction management
- Engineering and design of metal structures
- Reinforced Concrete

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Building And Civil Engineering (0732)

Specialization
Name

Civil Engineering Technology (073202)

Definition

This specialization aims to provide the student with the knowledge and skills to work in the applied side of civil engineering field. It addresses supervising construction work and compliment with approved specifications, performing laboratory tests for cement and soil, surveying work and ensuring site work safety, in addition to civil engineering drawing works using the computer.

Other Specializations Included In The Definition

- Inspection Technology - Civil Engineering

Important Courses Under This Specialization

- Construction technologies
- Properties and tests of materials and soil
- Water and sanitation systems
- Quantities and specifications

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Building And Civil Engineering (0732)

Specialization
Name

Structural Engineering (073203)

Definition

This specialization aims to provide the student with the necessary knowledge and skills to design, analyze, develop and evaluate materials and systems used in foundations and structures of facilities of all types and in different environments, to remain safe and stable, including buildings, roads, railways, bridges, dams, canals, offshore platforms and more. It also addresses analyzing structural problems of facilities such as failure to bear, safety issues and resilience to natural hazards.

Other Specializations Included In The Definition

- Road Engineering
- Architectural Engineering And Construction
- Construction Engineering And Soil Engineering

Important Courses Under This Specialization

- Building construction
- Construction mechanics
- Design of reinforced concrete buildings
- Pre-stressed concrete design
- Design of steel structures and Metal installations
- Restoration and strengthening of facilities

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Building And Civil Engineering (0732)

Specialization
Name

Structural Engineering Technology (073204)

Definition

This specialization aims to provide the student with the knowledge and skills to work in the applied side of construction engineering. It also covers the study of designs, architectural and structural drawings, building materials, structural analysis, reinforced concrete design, geotechnical technology, hydraulic, highway engineering, surveying, mechanical and electrical engineering related to buildings and repair of structural defects.

Other Specializations Included In The Definition

- Construction Engineering Technology
- Engineering Drawing - Structural
- Concretion
- Scaffolding
- Construction
- Construction Technology

Important Courses Under This Specialization

- Design of concrete structures
- Hydraulics
- Highway engineering
- Structural defects and repair
- Finishing works
- Construction contracts

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Building And Civil Engineering (0732)

Specialization
Name

Geotechnical Engineering (073205)

Definition

This specialization aims to provide the student with the knowledge and skills to study and analyze the behavior of soil and rocks and the extent of their stability to design principles of buildings, bridges, dams, tunnels, slopes, waste dumps and other facilities with direct contact of soil or rocks. This specialization addresses studying soil, classifying, treating, digging, exploring and conducting laboratory experiments, and then carrying out various calculations.

Important Courses Under This Specialization

- Soil and rock mechanics
- Geotechnical investigations and measurements
- Chock installations and inclinations
- Beach engineering
- Probability and reliability analysis
- Porous material physics

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Building And Civil Engineering (0732)

Specialization
Name

Water Resources Engineering (073206)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, design, operate and analyze water resources, their management, optimal control and protection from pollution. It also enables the student to design, plan and operate water resources' projects such as underground wells, irrigation systems, hydraulic installations, dams, water distribution networks and carry out studies of forecasting rain amounts and how to be used.

Other Specializations Included In The Definition

- Water Sources And The Environment
- Water Resource Engineering And Hydraulic

Important Courses Under This Specialization

- Water resources development
- Design of water institutions
- Groundwater hydrology
- Surface water hydrology
- Planning and design of water networks
- Irrigation and drainage engineering

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Building And Civil Engineering (0732)

Specialization
Name

Transport Engineering (073207)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, design, construct, operate and manage transport tracks such as roads, railways, and installations such as ports, airports). It also deals with traffic control methods and transportation routes to ensure that they are safe, fast, comfortable, economical and environmentally friendly.

Other Specializations Included In The Definition

- Transportation And Traffic Engineering
- Road Inspection
- Transportation And Construction
- Transportation And Construction Management

Important Courses Under This Specialization

- Planning and designing ports and berths
- Operation and management of traffic
- Rail design and operation
- Transportation facilities management
- Design and paving of roads
- Airport engineering

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed
Field

Building And Civil Engineering (0732)

Specialization
Name

Transportation Engineering Technology (073208)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies to work in the applied side of the transport engineering field. It seeks to enable the student to operate, monitor, and manage transport tracks such as roads, railway, and facilities such as ports, airports, and contribute to controlling traffic and transportation tracks.

Important Courses Under This Specialization

- Roads
- Topographic area
- Maritime transport
- Computer applications in transport engineering
- Geomatics
- Soil properties and testing

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

**Detailed
Field**

Other Programs In Architecture And Construction Not Further Defined (0739)

**Specialization
Name**

Other Specializations In Architecture And Construction Not Elsewhere Classified (073999)

Definition

The code (Other Specializations in Architecture And Construction not elsewhere classified) is used for any specialization that can be classified within the narrow field “Architecture And Construction” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Engineering, Manufacturing And Construction (078)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Engineering, Manufacturing And Construction (0788)

Specialization
Name

Engineering Management (078801)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, coordinate, manage and follow up works and engineering projects to ensure their completion on time and within the available human, financial and material resources. It also covers studying engineering and industrial aspects on the one hand and the administrative, operational and marketing aspects on the other hand.

Other Specializations Included In The Definition

- Engineering Management - Production And Manufacturing
- Facilitates Management
- Engineering Projects Management
- Engineering And Technology Management
- Engineering And Management

Important Courses Under This Specialization

- Manufacturing Operations
- Quality management
- Project management
- Modeling and simulation
- Engineering economics
- Human resources

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Engineering, Manufacturing And Construction (078)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Engineering, Manufacturing And Construction (0788)

Specialization
Name

Mechatronics Engineering (078802)

Definition

This specialization aims to provide the student with the knowledge and skills to design, analyze, manufacture and supervise precise electromechanical systems in which electronic circuits are integrated with mechanical systems with controlled computer programming through the application of automatic control theories.

Other Specializations Included In The Definition

- Electromechanical
- Mechatronics Technology

Important Courses Under This Specialization

- Automatic control
- Signals and systems
- Microprocessor
- Measurements and devices
- Mechanics of machines

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Engineering, Manufacturing And Construction (078)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Engineering, Manufacturing And Construction (0788)

Specialization
Name

Cranes (078803)

Definition

This specialization aims to provide the student with the knowledge and skills to examine, equip and operate heavy lifting equipment such as mobile cranes and forklifts according to safety standards followed globally. It enables the student to use of tools and equipment accompanying the processes of lifting weights and performing calculations with precision and professionalism.

Other Specializations Included In The Definition

- Operation Of Cranes And Heavy Lifting Operations
- Operation Of Cranes

Important Courses Under This Specialization

- General principles for using cranes in the construction, petroleum and other sectors
- Occupational safety in the construction and petroleum sectors
- Pre-use check operations
- Safe operation of forklift and mobile lift

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Engineering, Manufacturing And Construction (078)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Engineering, Manufacturing And Construction (0788)

Specialization
Name

Inter-Disciplinary Programs And Qualifications Involving Engineering, Manufacturing And Construction (078888)

Definition

The code of “Inter-disciplinary programs and qualifications that include Engineering, Manufacturing And Construction” is used in any Inter-disciplinary programs that majority of the teaching time is devoted to “Engineering, Manufacturing And Construction”

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Other Programs In Engineering, Manufacturing And Construction Not Elsewhere Classified (079)**

Detailed
Field

Other Programs In Engineering, Manufacturing And Construction Not Elsewhere Classified (0799)

Specialization
Name

Other Specializations In Engineering, Manufacturing And Constructions Not Elsewhere Classified (079999)

Definition

The code (Other Specializations in Engineering, Manufacturing And Construction Not Elsewhere Classified) is used for any specialization that can be classified within the broad field “Engineering, Manufacturing And Construction” and has not been classified in a specific narrow or detailed field or elsewhere in the classification.



Field (08)

Agriculture, Forestry, Fisheries And Veterinary

Agriculture 081

Forestry 082

Fisheries 083

Veterinary 084

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Programs In Agriculture, Forestry, Fisheries And Veterinary Not Further Defined (080)**

Detailed
Field

Programs In Agriculture, Forestry, Fisheries And Veterinary Not Further Defined (0800)

Specialization
Name

Specialization In Agriculture, Forestry, Fisheries And Veterinary Not Further Defined (080000)

Definition

The code “Specialization In Agriculture, Forestry, Fisheries And Veterinary Not Further Defined” is used for any specialization or program belonging to the broad field “Agriculture, Forestry, Fisheries And Veterinary”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Agriculture (081)**

Detailed
Field

Programs In Agriculture Not Further Defined (0810)

Specialization
Name

Specialization In Agriculture Not Further Defined (081000)

Definition

The code “Specialization In Agriculture Not Further Defined” is used for any specialization or program belonging to the narrow field “Agriculture”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Agriculture (081)**

Detailed
Field

Crop And Livestock Production (0811)

Specialization
Name

Arid Land Agriculture (081101)

Definition

This specialization aims to provide the student with the knowledge and skills to apply agricultural means and techniques in dry and semi-dry areas. It also studies the capabilities and resources of those areas and how to reclaim lands and develop their resources, and set innovative and effective solutions to develop agricultural and animal production in them.

Other Specializations Included In The Definition

- Cultivation Of Barren Lands

Important Courses Under This Specialization

- Survey and classification of rangelands
- National parks and wildlife
- Desertification and sand dune stabilization
- Afforestation in arid areas
- Classification of wild plants and their propagation methods

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Agriculture (081)**

Detailed
Field

Crop And Livestock Production (0811)

Specialization
Name

Animal Production And Raising (081102)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, develop and oversee livestock breeding and caring processes such as cows, sheep, goats, poultry, camels, horses and fishes. It also deals with research that aims at improving strains, their products and applying advanced scientific technologies in that.

Other Specializations Included In The Definition

- Livestock And Fish Production
- Livestock And Poultry Production Sciences
- Livestock
- Livestock Production
- Ruminants Science
- Poultry Science
- Poultry Production

Important Courses Under This Specialization

- Livestock production systems facilities
- Breeding and genetic improvement
- Livestock and poultry production
- Ruminants and poultry feeding
- Fishery production facilities

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Agriculture (081)**

Detailed
Field

Crop And Livestock Production (0811)

Specialization
Name

Plant Production And Protection (081103)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, develop and supervise plant production, protection and ensuring it is free of agricultural pests. It also covers research that aims at improving strains, their products and applying advanced scientific techniques in that and using safe alternatives in pest control.

Other Specializations Included In The Definition

- Plant Diseases
- Crop Protection
- Protected Agriculture
- Soil, Water And Environment
- Pesticides
- Agricultural Extension
- Plant Production Sciences
- Soil Science
- Plant Protection Science
- Soil And Water

Important Courses Under This Specialization

- Plant physiology
- Pesticides
- Protected agriculture
- Organic agriculture
- Fungal and bacterial diseases
- Entomology
- Viral and Nematode plant diseases

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Agriculture (081)**

Detailed
Field

Crop And Livestock Production (0811)

Specialization
Name

Irrigation And Drainage Engineering (081104)

Definition

This specialization aims to provide the student with the knowledge and skills to design, create, operate, develop, test and maintain various types of irrigation and drainage systems, and to control water distribution over waterways, canals, and their drainage to ensure that required agricultural production is met.

Other Specializations Included In The Definition

- Water And Irrigation System
- Land And Water

Important Courses Under This Specialization

- Water plant requirements
- Surface irrigation system design
- Groundwater hydrology
- Hydraulics of exposed channels
- Computer applications in irrigation systems

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Agriculture (081)**

Detailed
Field

Crop And Livestock Production (0811)

Specialization
Name

Agricultural Economics And Food Marketing (081105)

Definition

This specialization aims to provide the student with the necessary knowledge to study economic aspects of the agricultural sector and issues related to the management and marketing of agricultural products and services. It also aims to enable the student to manage, organize and execute agricultural projects, analyze their problems, provide solutions, and consultations that aim to reduce costs, increase production, improve marketing, and other trade issues related to agricultural goods and services.

Other Specializations Included In The Definition

- Agribusiness
- Applied Agricultural Economy
- Agricultural Economy And Extension
- Agribusiness And Consumer Science
- Resource Economics And Environment
- Renewable Natural Resources

Important Courses Under This Specialization

- Micro Applied Economics
- Project evaluation and agricultural finance
- Agricultural business management
- Foreign trade of agricultural products
- Agricultural marketing

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Agriculture (081)**

Detailed
Field

Horticulture (0812)

Specialization
Name

Horticulture And Crops (081201)

Definition

This specialization aims to provide the student with the knowledge and skills to apply agricultural methods and techniques in planting, caring, harvesting and storing horticultural crops of fruits, vegetables, flowers and ornamental plants and protecting them from harmful pests. It also develops horticultural production methods and improves their ability to live in different soils and climates.

Other Specializations Included In The Definition

- Agricultural Nurseries
- Ornamental Plants
- Fruits
- Vegetables
- Crops
- Gardening
- Orchards
- Agronomy
- Production Of Forestry Seedlings

Important Courses Under This Specialization

- Crop physiology
- Horticultural production
- Field and horticultural crops diseases
- Insect pests of field and horticultural crops
- Pesticides and occupational safety
- Horticultural crops

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Agriculture (081)**

Detailed
Field

Other Programs In Agriculture Not Further Defined (0819)

Specialization
Name

Agricultural Engineering (081901)

Definition

This specialization aims to provide the student with the essential knowledge and skills to design, operate, maintain and develop machinery, tractors and agricultural equipment used in agricultural operations. It also deals with agricultural production processes and energy systems at farms, how to safely dispose of agricultural waste, self-operating systems and automation in different agricultural activities. In addition, it studies agricultural facilities such as greenhouses, fish farms, storage warehouses.

Other Specializations Included In The Definition

- Agriculture Systems Engineering
- Agricultural Biological Systems Engineering And Irrigation Water
- Environmental Engineering And Agricultural Buildings

Important Courses Under This Specialization

- Thermodynamics
- Engines and agricultural tractors
- Measurement and control of biological systems
- Agricultural waste treatment engineering
- Agricultural mechanization

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Agriculture (081)**

Detailed
Field

Other Programs In Agriculture Not Further Defined (0819)

Specialization
Name

**Other Specializations In Agriculture Not Specified Elsewhere
(081999)**

Definition

The code (Other Specializations In Agriculture Not Specified Elsewhere) is used for any specialization that can be classified within the narrow field “Agriculture” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Forestry (082)**

Detailed
Field

Forestry (0821)

Specialization
Name

Rangelands And Forests (082101)

Definition

This specialization aims to provide the student with the knowledge and skills to manage, care, organize and protect rangelands and forests. It also studies types of forests and rangelands, their distribution, environmental benefit, problems they face and how to deal with them, such as desertification, overgrazing and forest fires.

Other Specializations Included In The Definition

- Pasture Science
- Forest Science

Important Courses Under This Specialization

- Ecosystems in rangelands and forests
- Forest development and care
- The dynamics of vegetation cover
- Environmental laws and regulations
- Survey and control of vegetation cover

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Fisheries (083)**

Detailed
Field

Fisheries (0831)

Specialization
Name

Fish Resources Science (083101)

Definition

This specialization aims to provide the student with the knowledge and skills to care, protect, organize and develop fishery resources and marine creatures of all kinds in seas and rivers. It studies fish species, their distribution, environment, nutrition, factors affecting their reproduction, or extinction threats to some species. It also studies methods and techniques for the cultivation of some types of marine organisms, regulations and legislations that must be put in place for their protection, working on monitoring and regulating fisheries and various fishing works.

Other Specializations Included In The Definition

- Wild Fisheries
- Aquaculture

Important Courses Under This Specialization

- Anatomy and Physiology of fishes
- Marine plants and animals
- Principles of fish production
- Fishery biology
- Cultivation of crustaceans and molluscs

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Veterinary (084)**

Detailed
Field

Veterinary (0841)

Specialization
Name

Veterinary Medicine (084101)

Definition

This specialization aims to provide the student with the knowledge and skills to examine, diagnose and treat domesticated, wild animals and fish. It also studies animal anatomy, physiology, diseases that affect them, methods of treatment and prevention.

Other Specializations Included In The Definition

- Veterinary Medicine - Surgery
- Veterinary Clinical Sciences
- Veterinary Internal Medicine
- Veterinary Medicine And Livestock
- Veterinary Public Health And Animal Welfare
- Veterinary Health - Vaccination
- Animal Health - Artificial Insemination
- Veterinary Diseases
- Birth, Reproduction, Artificial Insemination And Embryo Transfer
- Veterinary Anatomy
- Veterinary Medicines
- Veterinary Pharmacy
- Veterinary Parasites
- Animal Health - Laboratory Diagnosis
- Animal Health - Preventive Medicine

Important Courses Under This Specialization

- Veterinary anatomy, histology and physiology
- Animal genetics, behavior, policy and care
- Microbiology and parasites
- Pathology
- Veterinary Pharmacology
- Anesthesiology, radiology and surgery

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Veterinary (084)**

Detailed
Field

Veterinary (0841)

Specialization
Name

Veterinary Assistance (084102)

Definition

This specialization aims to provide the student with the knowledge and skills to assist the veterinarian in providing medical care for animals. It covers methods of observing, examining sick animals, assistance before, during and after surgeries, feeding and caring for a sick animal and providing treatment. It also focuses on providing first aid and emergency interventions for animals when needed.

Important Courses Under This Specialization

- Introduction to anatomy and physiology of animals
- Basics of veterinary practice
- Principles of animal care
- Veterinary Pharmacology
- Procedural steps in the field and clinics

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Agriculture, Forestry, Fisheries And Veterinary (088)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Agriculture, Forestry, Fisheries And Veterinary (0888)

Specialization
Name

Inter-Disciplinary Programs And Qualifications Involving Agriculture, Forestry, Fisheries And Veterinary (088888)

Definition

The code of “Inter-Disciplinary Programs And Qualifications Involving Agriculture, Forestry, Fisheries And Veterinary” is used in any Inter-disciplinary programs that majority of the teaching time is devoted to “Agriculture, Forestry, Fisheries And Veterinary”

Broad field: **Agriculture, Forestry, Fisheries And Veterinary (08)**

Narrow field: **Other Programs In Agriculture, Forestry, Fisheries And Veterinary Not Elsewhere Classified (089)**

**Detailed
Field**

Other Programs In Agriculture, Forestry, Fisheries And Veterinary Not Elsewhere Classified (0899)

**Specialization
Name**

Agriculture, Forestry, Fisheries And Veterinary Not Elsewhere Classified (089999)

Definition

The code (Other Specializations in Agriculture, Forestry, Fisheries And Veterinary Not Elsewhere Classified) is used for any specialization that can be classified within the broad field “Agriculture, Forestry, Fisheries And Veterinary” and has not been classified in a specific narrow or detailed field or elsewhere in the classification.



Field (09)
Health And Welfare

Health 091

Welfare 092

Broad field: **Health And Welfare (09)**

Narrow field: **Programs In Health And Welfare Not Further Defined (090)**

Detailed
Field

Programs In Health And Welfare Not Further Defined (0900)

Specialization
Name

Specialization In Health And Welfare Not Further Defined (090000)

Definition

The code “Specialization In Health And Welfare Not Further Defined” is used for any specialization or program belonging to the broad field “Health And Welfare”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Programs In Health Not Further Defined (0910)

Specialization
Name

Specialization In Health Not Further Defined (091000)

Definition

The code “Specialization In Health Not Further Defined” is used for any specialization or program belonging to the narrow field “Health”, and there is no additional information about it that help classify it in a specific detailed field.

Other Specializations Included In The Definition

- Newly Enrolled In Applied Medical Sciences
- Preparatory Year For Medical Faculties

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Conservative Dentistry (091101)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat dental diseases and disorders, teeth deformation, and tooth decay control. It focuses on methods of restoring parts of teeth that have defectives due to illnesses, trauma, or abnormal growth to access their normal, healthy and aesthetic condition. It also includes preventive, diagnostic, biological, mechanical and therapeutic techniques as well as materials and tools science and application.

Important Courses Under This Specialization

- Anatomy and physiology of the head and neck area
- Dental materials
- Medical imaging in conservative dental treatment
- Conservative interventions in dental treatment

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Dental General Health (091102)

Definition

This specialization aims to provide the student with the knowledge and skills to promote dental health through community-based dental care programs. It covers the science and art of preventing and controlling dental diseases.

Important Courses Under This Specialization

- Principles and concepts of public health
- Dental care models in dental services
- Epidemiology of dental diseases
- Methods to promote oral health

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Endodontic (091103)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose, treat and prevent endodontic and associated peripheral diseases.

Important Courses Under This Specialization

- Anatomy and physiology of the head and neck area
- Dental microbiology
- Diagnostic procedures in endodontic treatment
- Therapeutic interventions in endodontic diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Forensic Dentistry (091104)

Definition

This specialization aims to provide the student with the knowledge and skills to examine and evaluate dental-based evidence to assist legal authorities in criminal or civil procedures.

Other Specializations Included In The Definition

- Forensic Dentistry

Important Courses Under This Specialization

- Principles of forensic medicine
- Normal and pathological anatomy
- Methods for identifying disaster victims
- Molecular biology applications in forensic medicine

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

General Dentistry (091105)

Definition

This specialization aims to provide the student with the knowledge and skills to evaluate, diagnose and conduct surgical and non-surgical therapeutic interventions to treat diseases or disorders that may affect the oral cavity within the scope of the doctor's education, training and his experience.

Other Specializations Included In The Definition

- Aesthetic Dentistry
- Primary Dental Health Care
- Dental Sciences
- Dentistry And Dental Surgery

Important Courses Under This Specialization

- Anatomy and physiology of the head and neck area
- Oral radiology
- Oral and dental surgery
- Conservative dentistry

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Maxillofacial Surgery (091106)

Definition

This specialization aims to provide the student with the knowledge and skills to produce and interpret images and data generated by all radiography methods used to diagnose and treat diseases and disorders that affect the oral and maxillofacial area.

Important Courses Under This Specialization

- Head and neck anatomy
- Clinical examination of the maxillofacial area
- Pre- and Post-operative Care
- Principles of surgical interventions in maxillofacial surgery

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Oral And Maxillofacial Radiology (091107)

Definition

This specialization aims to provide the student with the knowledge and skills to produce and interpret images and data produced by all radiography methods used to diagnose and treat diseases and disorders that affect the oral and maxillofacial area.

Important Courses Under This Specialization

- Head and neck anatomy
- Principles of intraoral imaging
- Preventive measures to deal with radiation
- X-ray interpretation training

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Oral And Maxillofacial Diseases (091108)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and study the causes and effects of diseases affecting the oral and maxillofacial area.

Important Courses Under This Specialization

- Head and neck anatomy
- Clinical examination of the oral and maxillofacial area.
- Medical and preventive care for oral diseases
- Internal diseases related to oral diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Oral Surgery (091109)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and perform a surgical intervention to treat diseases, injuries and defects affecting the functional and aesthetic aspects of the solid and soft tissues in the oral area.

Important Courses Under This Specialization

- Oral and dental anatomy
- Clinical examination of the mouth and teeth
- Pre- and Post-operative Care
- Principles of surgical interventions in oral surgery

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Maxillofacial Orthodontics (091110)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose, prevent and make corrections of malocclusion, bone deformities and facial skeletal structure that may affect complete or developing oral structures.

Important Courses Under This Specialization

- Orthodontic
- Use of x-rays in Orthodontics
- Occlusion and temporomandibular joint treatment
- Materials and equipment used in orthodontics

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Periodontics Medicine (091111)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose, treat diseases affecting the supporting tissues and surrounding teeth or their alternatives and preserve the function, health and aesthetic of these tissues and structures.

Other Specializations Included In The Definition

- Periodontal Diseases And Surgery

Important Courses Under This Specialization

- Oral and dental anatomy
- Dental pathology
- Clinical examination of the mouth and teeth
- Treating gum disease

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Prosthetic Dentistry (091112)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose, treat and rehabilitate patients suffering from tooth loss or deformity with or without injury to the maxillary facial tissues. It also aims to enable the student to use compatible biological alternatives and help the patient reach good oral function competence, feel comfortable, and have a good appearance.

Other Specializations Included In The Definition

- Dental Restorations
- Oral And Maxillofacial Prosthodontics

Important Courses Under This Specialization

- Oral and dental diseases
- Types of dental compensation prosthodontics
- Fixed dental prosthetic
- Removable teeth prosthetic

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Dental Repairs (091113)

Definition

This specialization aims to provide the student with the knowledge and skills to fully diagnose and treat diseases and disorders that affect teeth and their supporting structures, including restoration, replacement and rehabilitation of dental implants to meet the individual requirements at the functional and aesthetic level.

Important Courses Under This Specialization

- Oral and dental anatomy
- Conservative dental treatment
- Treating dental nerves and roots
- Properties of dental materials

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

General Advanced Dentistry (091114)

Definition

This specialization aims to provide the student with the knowledge and skills to evaluate and conduct surgical and non-surgical therapeutic interventions for diseases and disorders of the oral cavity with more advanced knowledge and efficacy than a general dentist.

Important Courses Under This Specialization

- Anatomy and physiology of the head and neck area
- Oral radiology
- Oral and dental surgery
- Conservative dentistry

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Dental Anesthesia (091115)

Definition

This specialization aims to provide the student with the knowledge and skills to use advanced anesthesia, sedation and pain therapy to facilitate dental therapeutic interventions.

Important Courses Under This Specialization

- Anatomy and physiology of the head and neck area
- Anesthesia materials used
- Types of anesthesia in dentistry
- Practical anesthesia

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Family Dentistry (091116)

Definition

This specialization aims to provide the student with the knowledge and skills to evaluate and perform dental surgical and non-surgical interventions for diseases and disorders that may affect the oral cavity, with a more advanced knowledge than a general dentist to provide care for all age groups.

Important Courses Under This Specialization

- Oral and dental diseases
- Dental diseases in children and adults
- Dental diseases in pregnant women
- Prevention and treatment of oral and dental diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Geriatric Dentistry (091117)

Definition

This specialization aims to provide the student with the knowledge and skills to provide, diagnose, prevent and treat the elderly of age-related problems and related diseases as part of a multidisciplinary team to provide the elderly with health care.

Important Courses Under This Specialization

- Oral and dental diseases in the elderly
- Clinical pharmacology
- Conservative interventions in the treatment of the elderly
- Internal diseases related to oral diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Hospital Dentistry (091118)

Definition

This specialization aims to provide the student with the knowledge and skills to provide dental care in hospitals for patients with medical problems who cannot receive care in the community. It is also concerned with providing comprehensive dental care in all stages of general dentistry. It qualifies a specialist to be a GPR.

Important Courses Under This Specialization

- Oral and dental diseases in inpatients
- Clinical examination of oral and dental diseases
- Clinical pharmacology
- Internal diseases related to oral diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Oral And Facial Pain (091119)

Definition

This specialization aims to provide the student with the knowledge and skills to evaluate, diagnose and treat patients with complex oral and facial pain, dysfunction, disorders of oral and motor behavior and treatment of chronic pain in the head and neck. Also, it identifies the pathophysiology underlying these pain and mechanisms of such disorders.

Important Courses Under This Specialization

- Anatomy and physiology of the head and neck area
- Clinical examination of mouth and face pain
- Drug interventions for mouth and face pain
- Surgical interventions for mouth and face pain

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Stomatology (091120)

Definition

This specialization aims to provide the student with the knowledge and skills to care for oral health, diagnose and conduct non-surgical therapeutic interventions for patients with chronic and medical disorders affecting the oral and maxillofacial area.

Important Courses Under This Specialization

- Anatomy and physiology of the head and neck area
- Oral radiology
- Clinical examination of oral diseases
- Curative interventions in oral diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Pediatric Dentistry (091121)

Definition

This specialization aims to provide the student with the knowledge and skills to offer comprehensive curative and preventive health care for the oral health of children, infants and till adolescence age, including children with special needs. It also provides care for those who are past adolescence, suffering from mental retardation.

Important Courses Under This Specialization

- Anatomy and physiology of the head and neck area
- Clinical examination of dental diseases in children
- Common dental diseases in children
- Therapeutic interventions in the treatment of children teeth

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Preventive Dentistry (091122)

Definition

This specialization aims to provide the student with the knowledge and skills to promote dental health through community-based dental care programs. It also covers the science and art of preventing and controlling dental diseases.

Important Courses Under This Specialization

- Principles of Public health
- Methods to promote oral health
- Types of prevention in dental diseases
- Health education in dentistry

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Dentistry For People With Special Needs (091123)

Definition

This specialization aims to provide the student with the knowledge and skills to provide oral health care to people who suffer physical, developmental, mental, sensory, behavioral or mood retardation. This delay may be congenital, developmental or acquired due to an illness, trauma or environmental cause.

Important Courses Under This Specialization

- Anatomy and physiology of the head and neck area
- Clinical examination of dental diseases for people with special needs
- Common dental diseases for people with special needs
- Dental interventions

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Temporomandibular Joint Diseases (091124)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose, evaluate and treat temporomandibular joint (TMJ) pains, muscle pains and dysfunctions.

Important Courses Under This Specialization

- Anatomy and physiology of the head and neck area
- Clinical examination of the temporomandibular joint
- Pharmacological interventions to treat TMJ diseases
- Surgical interventions to treat TMJ diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Oral And Dental Health (091125)

Definition

This specialization aims to provide the student with the knowledge and skills to work independently or alongside dentists to provide full oral health care, it studies methods of removing plaques from the patients' teeth, polishing them, examining patients, reviewing the pathological history of oral health and teaching dental brushing and threading techniques.

Other Specializations Included In The Definition

- Dental Care

Important Courses Under This Specialization

- Oral and dental anatomy
- Periodontal and dental diseases
- Dental examination
- Methods to promote oral health

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Dentist Assistant (091126)

Definition

This specialization aims to provide the student with the knowledge and skills to work within the therapeutic team to support various dental treatment procedures to be more efficient.

Other Specializations Included In The Definition

- Dental Nursing

Important Courses Under This Specialization

- Anatomy and physiology of the head and neck area
- Clinical examination of the mouth and teeth
- Dental treatment tools
- First aid and recovery

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Dental Studies (0911)

Specialization
Name

Dental Technology (091127)

Definition

This specialization aims to provide the student with the knowledge and skills to build dental prostheses and prosthetics designed according to the instructions of a dentist. This specialization focuses on enabling the student to design, manufacture, repair and modify fixed and mobile dental prostheses.

Other Specializations Included In The Definition

- Dental Laboratories
- Dental Laboratory
- Dentistry Materials
- Characteristics Of Biomedical Materials
- Dental Manufacturing Technology

Important Courses Under This Specialization

- Oral and dental anatomy
- Dental lab materials
- Fixed and removable dental compensation
- Orthodontic devices

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

General Medicine Practice (091201)

Definition

This specialization aims to provide the student with the knowledge and skills to examine, diagnose and treat patients with minor or chronic diseases and also enables him to refer patients to the appropriate specialist to receive the necessary medical care.

Other Specializations Included In The Definition

- Occupational Medicine
- Medicine And Surgery

Important Courses Under This Specialization

- Anatomy and physiology of the human body
- Clinical examination of the human body
- Clinical pharmacology
- Common internal and surgical diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Pediatrics (091202)

Definition

This specialization aims to provide the student with the knowledge and skills to examine, diagnose, treat and prevent childhood illnesses and ensure they receive the care needed for growth and treatment of associated health problems.

Other Specializations Included In The Definition

- Paediatric Haematology And Oncology
- Paediatric Cardiac Diseases
- Paediatric Endocrinology
- Paediatric Infectious Disease
- Paediatric Gastrointestinal Diseases
- Paediatric Pulmonary Diseases

Important Courses Under This Specialization

- Stages of children development
- Paediatric diseases
- Hereditary and metabolic diseases
- Paediatric pharmacology

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Neonatal Medicine (091203)

Definition

This specialization aims to provide the student with the knowledge and skills to provide medical care for newborn babies, especially children born before their natural time. And this work is performed in neonatal intensive care units.

Important Courses Under This Specialization

- Clinical examination of newborns
- Newborn feeding
- Internal diseases affecting newborns
- Surgical diseases affecting newborns

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Paediatric Neurology (091204)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat diseases of the central and peripheral nervous system in children.

Important Courses Under This Specialization

- Anatomy and physiology of nervous system
- Clinical examination of the nervous system in children
- Common diseases of the brain and nerves in children
- Pharmacological interventions to treat epilepsy and other neurological diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Internal Medicine (091205)

Definition

This specialization aims to provide the student with the knowledge and skills to provide prevention, diagnosis and treatment for a wide range of diseases and health problems affecting the internal organs of adults.

Other Specializations Included In The Definition

- Infectious Diseases

Important Courses Under This Specialization

- Anatomy and physiology of the human body
- Clinical examination of the human body
- Clinical pharmacology
- Common internal diseases in adults

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Respiratory System Medicine (091206)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat respiratory diseases.

Important Courses Under This Specialization

- Anatomy and physiology of the respiratory organs
- Diagnostic Methods of respiratory diseases
- Clinical examination of the respiratory system
- Pharmacological interventions to treat respiratory diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Dermatology (091207)

Definition

This specialization aims to provide the student with the knowledge and skills to examine, diagnose and treat skin diseases.

Important Courses Under This Specialization

- Anatomy and physiology of the skin, mucous membranes, hair and nails
- Diseases affecting the skin, mucous membranes, hair and nails
- Diagnostic Methods of skin, mucous membranes, hair and nails diseases
- Pharmacological interventions for the treatment of skin diseases, mucous membranes, hair and nails

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Rheumatology (091208)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat diseases related to joints of different types such as joint friction, joint infections and immune inflammation.

Other Specializations Included In The Definition

- Rheumatic Diseases

Important Courses Under This Specialization

- Anatomy and physiology of joints organs and connective tissue
- Joints and connective tissue Diseases
- Diagnostic Methods of joint and connective tissue diseases
- Pharmacological interventions in the joint and connective tissue diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Neurology (091209)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat diseases of the central and peripheral nervous system of adults.

Important Courses Under This Specialization

- Anatomy and Physiology of nervous system organs
- Diseases affecting the nervous system
- Diagnosis of neurological diseases
- Pharmacological interventions to treat neurological diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Family Medicine (091210)

Definition

This specialization aims to provide the student with the knowledge and skills to provide continuous and comprehensive healthcare for the individual and the family. This specialization covers the biological, clinical and behavioral sciences for the individual and family.

Important Courses Under This Specialization

- Health services planning
- Chronic internal diseases
- Health services in primary health care
- Community health promotion practices

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Nephrology (091211)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat diseases related to kidney function and supervise dialysis patients.

Important Courses Under This Specialization

- Anatomy and physiology of the renal system
- Renal system Diseases
- Diagnostic Methods of kidney diseases
- Pharmacological interventions to treat kidney disease

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Allergy And Immunology (091212)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat disorders and diseases related to the immune system and allergic symptoms.

Important Courses Under This Specialization

- Immune response to human body
- Allergy and immune system diseases
- Diagnostic Methods of allergies and immune disorders
- Pharmacological interventions to treat immune deficiency diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Psychiatry (091213)

Definition

This specialization aims to provide the student with the knowledge and skills to assess and treat mental disorders such as schizophrenia, mood disorders, anxiety disorders, addiction-related disorders, etc.

Other Specializations Included In The Definition

- Child And Adolescent Psychiatry

Important Courses Under This Specialization

- Personality theories and psychological pathology
- Scales used in diagnosing mental illnesses
- Psychotic and Affective diseases
- Psychopharmacology

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Preventive Medicine And Public Health (091214)

Definition

This specialization aims to provide the student with the knowledge and skills to promote health and disease prevention and manage the health of societies and populations. It includes assessing and measuring the health status of population and developing effective interventions at the population level to promote health.

Important Courses Under This Specialization

- Principles of Public Health
- Preventive interventions in public health
- Biostatistics
- Epidemiology

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Radiation Oncology (091215)

Definition

This specialization aims to provide the student with the knowledge and skills to use radiation such as high-voltage X-rays or radioactive energy in cancer treatment.

Important Courses Under This Specialization

- Human tumors and their stages
- Diagnostic Methods of tumors and its histological examination
- Radiotherapy of Oncology
- Occupational Safety

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Oncology (091216)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat malignant tumors that may affect humans.

Important Courses Under This Specialization

- Human tumors and their stages
- Diagnostic Methods of tumors and its histological Investigations
- Chemotherapy and radiotherapy for tumors
- Surgical interventions in oncology

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Hematology (091217)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose, treat and prevent different blood bone marrow and blood vessel diseases.

Important Courses Under This Specialization

- Blood Physiology
- Laboratory analysis of Blood Diseases
- Common Hematological Diseases
- Pharmacological interventions to treat blood diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Endocrinology (091218)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat diseases related to hormonal disorders in a human body and study their effects on growth, development, cellular and metabolic formation.

Important Courses Under This Specialization

- Anatomy and Physiology of endocrine system
- Endocrine system diseases
- Diagnostic Methods of Endocrine diseases
- Pharmacological interventions to treat endocrine diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Gastrointestinal Diseases (091219)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat gastrointestinal disorders. These disorders may affect the esophagus, stomach, small intestine, large intestine (colon), rectum, liver, gallbladder or pancreas.

Important Courses Under This Specialization

- Anatomy and physiology of digestive system
- Diseases affecting the digestive system
- Diagnostic Methods of Digestive diseases
- Pharmacological interventions to treat gastrointestinal diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Cardiovascular Medicine (091220)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat heart disorders and some parts of the circulatory system including the heart and blood vessels.

Important Courses Under This Specialization

- Anatomy and physiology of the cardiovascular organs
- Cardiovascular system diseases
- Methods of diagnosing the cardiovascular system
- Pharmacological interventions to treat the heart and blood vessels

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Medical Genetics (091221)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose genetic diseases caused due to a defect in the DNA and follow the patient's entire health status in the clinic or inpatient wards. It also seeks to diagnose patients using studies of chromosomes and molecular tests of DNA and related, diagnose, and follow-up of patients with metabolic and genetic diseases.

Other Specializations Included In The Definition

- Clinical Genetic Medicine
- Cellular Genetic Medicine
- Molecular Genetic Medicine
- Metabolic Genetic Medicine
- Genetic Counseling
- Human Molecular Genetics

Important Courses Under This Specialization

- Cell biology and molecular biology
- Laboratory examination of genetic diseases
- Hereditary and metabolic diseases
- Therapeutic interventions in genetic diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Emergency Medicine (091222)

Definition

This specialization aims to provide the student with the knowledge and skills to care for diseases or injuries that require immediate medical attention for patients who are not scheduled for all ages with the initiation of resuscitation and the achievement of health stability and the start of diagnosis and treatment of diseases in acute and critical stage.

Other Specializations Included In The Definition

- Emergency Of Air Medicine
- Pediatric Emergency Medicine

Important Courses Under This Specialization

- Anatomy and physiology of the human body
- Clinical examination of the human body
- Common emergencies for adults
- Common procedures in emergency room for adults

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Intensive Care Medicine (091223)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat life-threatening situations that may require advanced support, extensive and continuous monitoring and comprehensive care.

Other Specializations Included In The Definition

- Intensive Care Medicine
- Pediatric Intensive Care Medicine

Important Courses Under This Specialization

- Anatomy and physiology of the human body
- Clinical examination of the human body
- Common internal diseases in intensive care department
- Common therapeutic procedures in the intensive care departments

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Forensic Medicine (091224)

Definition

This specialization aims to provide the student with the knowledge and skills to apply medical knowledge to establish facts in civil or criminal legal cases, such as investigating the cause and time of suspicious death.

Important Courses Under This Specialization

- Human anatomy
- Toxicology
- Forensic examination of the dead
- Writing forensic reports

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

General Surgery (091225)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and care for patients suffering from diseases and disorders affecting the abdominal area, digestive system, endocrine glands, breasts, skin and blood vessels. General surgeons are also trained to treat patients with critical illness or disease and in pediatric and cancer patients' surgical care. They are also skilled at using endoscopic and surgical endoscopy techniques.

Other Specializations Included In The Definition

- Medical Endoscopes

Important Courses Under This Specialization

- Anatomy and physiology of human body organs
- Common surgical diseases
- General surgical techniques and interventions
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Ophthalmology (091226)

Definition

This specialization aims to provide the student with the knowledge and skills to provide complete care of eye and vision care, including the description of glasses and contact lenses, dispensing of drugs, diagnosis and treatment of eye diseases and surgeries.

Important Courses Under This Specialization

- Anatomy and physiology of the optic system
- Eye and visual system diseases
- Methods for diagnosing eye and visual diseases
- Drug and surgical interventions to treat ocular diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Ear, Nose, Throat, Head And Neck Surgery (091227)

Definition

This specialization aims to provide the student with the knowledge and skills to provide medical and surgical treatment for diseases, deformities and injuries to the ear, nose, sinuses, throat, respiratory system, upper digestive system, maxillofacial and other head and neck diseases, as well as treatment of tumors in the head neck, facial surgery and reconstructive surgery, treatment of hearing and sound disorders and surgical treatment of sleep and snoring problems.

Other Specializations Included In The Definition

- Ear Nerve Diseases

Important Courses Under This Specialization

- Anatomy and physiology of ENT, head and neck
- Diseases affecting ear, nose and throat
- Surgical interventions to treat ENT diseases
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Cardiac Surgery (091228)

Definition

This specialization aims to provide the necessary knowledge and skills to perform surgical procedures on heart muscle, valves, arteries, aorta and other large arteries associated with the heart.

Important Courses Under This Specialization

- Anatomy and physiology of the cardiovascular system and surrounding vessels
- Heart diseases
- Surgical interventions to heart disease
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Cardiothoracic Surgery (091229)

Definition

This specialization aims to provide the student with the necessary knowledge and skills to perform surgical interventions for the organs inside the chest, including treating heart and lung diseases.

Important Courses Under This Specialization

- Anatomy and physiology of the heart and respiratory organs
- Diseases affecting heart and chest
- Surgical interventions to treat heart disease and chest
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Vascular Surgery (091230)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat patients suffering from diseases and disorders of the arterial, venous, and lymphatic system, except for the brain and heart vessels. Vascular surgeons open blocked arteries, repair veins to improve blood circulation, treat an aneurysm (swellings) in the aorta and other blood vessels, treat vascular injuries, reconstructive blood vessels and dialysis.

Important Courses Under This Specialization

- Anatomy and physiology of vascular organs
- Vascular diseases
- Surgical interventions to treat vascular diseases
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Neurosurgery (091231)

Definition

This specialization aims to provide the student with the knowledge and skills to provide surgical and medical care to adult patients and children with neurological conditions affecting the function or activity of the nervous system.

Important Courses Under This Specialization

- Anatomy and physiology of the brain and nerves
- Brain and nerve diseases
- Surgical interventions to treat brain and nerve diseases
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Urology (091232)

Definition

This specialization aims to provide the student with the knowledge and skills to provide care for those with surgical and medical diseases of male and female urogenital systems and male reproductive organs.

Important Courses Under This Specialization

- Anatomy and physiology of urinary tract organs
- Urinary tract diseases
- Surgical interventions to treat urinary tract diseases
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Pediatric Surgery (091233)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and care for preterm, newborn and children. It includes correcting deformities, repairing birth defects, treating injuries in children and surgical interventions for child cancer patients.

Important Courses Under This Specialization

- Anatomy and physiology of human body organs
- Congenital diseases and deformities that affect children
- Surgical interventions to treat childhood and preterm diseases
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Plastic Surgery (091234)

Definition

This specialization aims to provide the student with the knowledge and skills to carry out operations to rebuild or repair parts of the body and transfer tissues, either for therapeutic reasons such as burns or for cosmetic purposes.

Important Courses Under This Specialization

- Anatomy and physiology of human body organs
- Deformities and injuries that require cosmetic surgery
- Types of surgical interventions in plastic surgery
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Orthopaedic Surgery (091235)

Definition

This specialization aims to provide the student with the knowledge and skills to treat diseases, injuries of the musculoskeletal system, spine, deformities and the restoration of the appearance and function of the limbs and their preservation through medical and surgical interventions and rehabilitation of children and adults.

Other Specializations Included In The Definition

- Joint Surgery
- Sports Medicine

Important Courses Under This Specialization

- Anatomy and physiology of the surrounding bone, joint and tissue organs
- Diseases affecting the bones, joints, and surrounding tissues
- Surgical interventions to treat fractures and bone and joint diseases
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Colorectal Surgery (091236)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose, treat and operate benign and malignant diseases in colon, rectum and anus.

Important Courses Under This Specialization

- Anatomy and physiology of colon and rectum
- Colon and rectal diseases
- Surgical interventions to treat colon and rectal diseases
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Obstetrics And Gynecology (091237)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose and treat diseases of the female reproductive system and deal with disorders related to women's health before, during and after childbearing.

Other Specializations Included In The Definition

- Infertility Diseases

Important Courses Under This Specialization

- Anatomy and physiology of the female genital organs
- Diseases affecting the female reproductive system
- Surgical interventions in childbirth and gynecology
- Medical care before and during pregnancy

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Gastrointestinal Surgery (091238)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose, treat and operate diseases of the digestive system, including the esophagus, stomach, small intestine, large intestine (colon), rectum, liver, gallbladder and pancreas.

Important Courses Under This Specialization

- Anatomy and physiology of the gastrointestinal diseases
- Diseases affecting the digestive system
- Surgical interventions to treat gastrointestinal diseases
- Pre- and Post-operative Care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Anesthesiology (091239)

Definition

This specialization aims to provide the student with the knowledge and skills to anesthetize patients to conduct different medical operations and procedures and reduce the ability to feel pain.

Other Specializations Included In The Definition

- Paediatric Anaesthesia
- Cardiac Anesthesia
- Obstetric Anaesthesia

Important Courses Under This Specialization

- Anatomy and Physiology of human body organs
- Anesthesia for special cases
- Clinical pharmacology
- Anesthesia techniques and clinical practice

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Public Health (091240)

Definition

This specialization aims to provide the student with the knowledge and skills to prevent diseases, improve and enhance the health of the individual and society. This specialization deals with methods of research and analysis to discover the causes of diseases, early detection and prevention, as well as finding ways and means to reduce health disparities and promote healthy lifestyles.

Other Specializations Included In The Definition

- Community Health
- Public Health In Epidemiology And Biostatistics

Important Courses Under This Specialization

- Introduction to public health
- Health Administration and planning
- Health and food safety
- Occupational Health

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medicine (0912)

Specialization
Name

Basic Medical Sciences (091241)

Definition

This specialization aims to provide the student with the knowledge and skills to study the anatomy and functions of body organs and chemical processes that occur in the human body in health and sickness cases.

Other Specializations Included In The Definition

- Anatomy
- Physiology And Formation Biology
- Physiology
- Embryology
- Technical Anatomy And Histology

Important Courses Under This Specialization

- Histology and anatomy
- Embryology
- Physiology
- Biochemistry

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Midwifery (091301)

Definition

This specialization aims to provide the student with the knowledge and skills to offer care to pregnant mothers and after childbirth and care for newborns.

Important Courses Under This Specialization

- Nursing care during pregnancy
- Nursing care during childbirth
- Newborn nursing care
- Family planning

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Clinical Nursing (091302)

Definition

This specialization aims to provide the student with the knowledge and skills to carry out the advanced practice of evidence-based nursing care and to work in different departments for diagnosis, planning and direct treatment for patients.

Other Specializations Included In The Definition

- General Nursing
- Nursing For People With Special Needs

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Surgical and medical nursing
- Emergency and first aid

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Internal Medicine And Surgery Nursing (091303)

Definition

This specialization aims to provide the student with the knowledge and skills to provide care to adult patients, deal with internal and chronic diseases and to provide care to patients before and after surgeries.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Surgical and medical nursing
- Emergency and first aid

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Diabetic Foot Care Nursing (091304)

Definition

This specialization aims to provide the student with the knowledge and skills to detect diabetic symptoms of the foot, provide foot care and advanced refills

Other Specializations Included In The Definition

- Anatomy and physiology
- Principles and concepts of nursing
- Diabetes Nursing
- Wound care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Wound Care Nursing (091305)

Definition

This specialization aims to provide the student with the knowledge and skills to evaluate and treat wounds and build treatment plans for all types of wounds and bedsores.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Wound care
- Complications of wounds

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Cardiovascular Care Nursing (091306)

Definition

This specialization aims to provide the student with the knowledge and skills to provide advanced nursing care for patients with heart disease, arterial disease and after heart surgeries.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Cardiovascular Disease
- Cardiac Testing

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Dialysis Nursing (091307)

Definition

This specialization aims to provide the student with the knowledge and skills to provide nursing care for kidney patients, patients with dialysis, monitoring fluid balance in the body and performing necessary health education.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Pre- and post-dialysis Evaluation
- Laboratory investigation of kidney functions

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Critical Care Nursing For Adults (091308)

Definition

This specialization aims to provide the student with the knowledge and skills to provide nursing care for critical condition adult patients whose situations require intensive and continuous care and those whose cases require medical ventilation through artificial ventilators or effective medications.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Cardiovascular Diseases
- Cardiopulmonary resuscitation

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Advanced Care Nursing (091309)

Definition

This specialization aims to provide the student with the knowledge and skills to provide advanced nursing care and make more complex decisions regarding treatment plans for patients.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Surgical and medical nursing
- Cardiopulmonary resuscitation

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Pain Management Nursing (091310)

Definition

This specialization aims to provide the student with the knowledge and skills to care and evaluate patients who suffer from acute pain during treatment or after operations or chronic pain and implement their treatment plans.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Applied pharmacology
- Nursing care of chronic pain patients

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Palliative Nursing, Oncology And Hematology Nursing (091311)

Definition

This specialization aims to provide the student with the knowledge and skills to provide advanced health care for patients with tumors and blood by giving chemical and immunological treatments, bone marrow or stem cell transplantation and providing psychological support and palliative care to the patient and his family during and after the treatment period.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Surgical and medical nursing
- Palliative Interventions for tumor patients

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Anesthesia Nursing (091312)

Definition

This specialization aims to provide the student with the knowledge and skills to give the patient medications according to the instructions of the anesthesiologist, care for the patient after recovery from anesthesia, follow up and support the patient and his family during the procedure.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Medicines used in anesthesia
- Emergency interventions

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Operations Nursing (091313)

Definition

This specialization aims to provide the student with the knowledge and skills to provide nursing care before, during and after surgical procedure, ensure the safety of procedures at all times and provide medical support under the supervision of surgeons.

Other Specializations Included In The Definition

- Orthopedics (Nursing)

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- The principles of surgical nursing
- Patient care before and after surgeries

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Emergency Nursing (091314)

Definition

This specialization aims to provide the student with the knowledge and skills to provide care for emergencies and immediate accident injuries where he assesses situations directly to provide necessary assistance.

Other Specializations Included In The Definition

- Emergency

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Emergency interventions
- Cardiopulmonary resuscitation

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Neonatal Intensive Care Nursing (091315)

Definition

This specialization aims to provide the student with the knowledge and skills to provide nursing care in intensive care departments of preterm infants with unstable cases, preterm infants whose conditions require medical ventilation through artificial respiration devices or effective medications.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Diseases affecting Newborn
- Cardiopulmonary resuscitation

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Obstetrics And Gynecology Nursing (091316)

Definition

This specialization aims to provide the student with the knowledge and skills to provide nursing care for female patients and in everything related to health care during and after pregnancy and childbirth and provide care for the newborn.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Nursing care of pregnant women
- Nursing care during childbirth

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Paediatrics Nursing (091317)

Definition

This specialization aims to provide the student with the knowledge and skills to provide nursing care for children (to adulthood) and provide psychological support to them and their families.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Children's diseases
- Nursing care of children

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Paediatrics Critical Care Nursing (091318)

Definition

This specialization aims to provide the student with the knowledge and skills to provide care for patients with unstable cases from children (till internationally and locally recognized childhood age) and patients who require medical ventilation through ventilators or effective medications.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Children's diseases
- Cardiopulmonary resuscitation

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Geriatric Nursing (091319)

Definition

This specialization aims to provide the student with the knowledge and skills to provide nursing care to elderly patients including Alzheimer's, asthenia and dementia and to assess their needs.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Diseases affecting Elderlies
- Nursing care of the elderly

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Mental Health Nursing (091320)

Definition

This specialization aims to provide the student with the knowledge and skills to provide advanced nursing care for patients with mental illnesses and make treatment plans in cooperation with medical care providers.

Important Courses Under This Specialization

- Principles and concepts of nursing
- Psychiatric Disorders
- Nursing care of psychiatric patients
- Behavioral and pharmacological interventions for psychiatric patients

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Maternity And Childhood Nursing (091321)

Definition

This specialization aims to provide the student with the knowledge and skills to provide care, nursing and support for the mother, child, family and everything related to immunization, training in breastfeeding and aspects related to nutrition and family planning

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Maternal diseases during pregnancy and childbirth
- Nursing care of children

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Primary Care Nursing (091322)

Definition

This specialization aims to provide the student with the knowledge and skills to provide preventive, primary care to patients and their families in primary health centers.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Common chronic diseases
- Nursing care of internal and surgical diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Community Health Nursing /And Public Health Nursing (091323)

Definition

This specialization aims to provide the student with the knowledge and skills to improve the health and welfare of the community and carry out health education on disease prevention, sound health practices and health promotion plans.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- principles of Public health
- Health education methods

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

School Health Nursing (091324)

Definition

This specialization aims to provide the student with the knowledge and skills to identify health problems that children suffer in schools and provide school health education, disease prevention and health promotion.

Important Courses Under This Specialization

- Anatomy and physiology
- Principles and concepts of nursing
- Children's diseases
- Nursing care of children

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Nursing Research (091325)

Definition

This specialization aims to provide the student with the knowledge and skills to do nursing research, develop evidence-based practice and study different needs.

Important Courses Under This Specialization

- The foundations of conducting scientific research
- Evidence-based nursing practice
- Biostatistics
- Scientific Publishing

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Nursing Education (091326)

Definition

This specialization aims to provide the student with the knowledge and skills to determine educational, training and development needs for nursing personnel, in addition to the practice of clinical nursing.

Important Courses Under This Specialization

- Assessment and evaluation in nursing education
- Curricula and teaching methods
- Principles of field training
- Nursing education techniques

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Forensic Nursing (091327)

Definition

This specialization aims to provide the student with the knowledge and skills to apply nursing practices and planning to care for patients injured by violence of any kind and to participate in detection, anatomy and investigation.

Important Courses Under This Specialization

- Anatomy
- Hair and dental analysis
- procedures of Criminal evidence gathering
- Toxicology

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Nursing And Midwifery (0913)

Specialization
Name

Quality In Nursing (091328)

Definition

This specialization aims to provide the student with the knowledge and skills to evaluate nursing practices within the health facility, support enhancing productivity and practical efficiency it also develops nursing policies and procedures.

Important Courses Under This Specialization

- Collecting data and recording accident reports
- Quality models in health facilities
- Nursing quality standards
- Patient safety

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Anaesthesia Technology (091401)

Definition

This specialization aims to provide the student with the knowledge and skills to equip, examine and operate monitoring equipment during surgical operations and provide assistance for physicians in all steps of the total, half and local anesthesia and emergency resuscitation cases.

Important Courses Under This Specialization

- Pharmacology in Anesthesiology
- Anesthesia for one-day surgery and for emergency operations
- Mechanical ventilation
- Advanced anesthesia techniques

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Cardiac Catheterization Technology (091402)

Definition

This specialization aims to provide the student with the knowledge and skills to insert a catheterization into the heart via a peripheral artery such as a femoral artery or humeral artery, to reach the left ventricle of the heart or the coronary arteries for diagnostic purposes such as injection of the left ventricle or coronal arteries with a shady substance that's easily visible in x-rays or for therapeutic purposes by inserting substances or therapeutic equipment.

Other Specializations Included In The Definition

- Cardiac Catheterization
- Cardiac Perfusion

Important Courses Under This Specialization

- Cardiac and circulatory dynamics
- Principles of cardiac imaging
- Cardiography
- Cardiac catheterization training

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Cardiac Technology (091403)

Definition

This specialization aims to provide the student with the knowledge and skills to assist the doctor in diagnosing and treating peripheral cardiovascular disease (blood vessels). It also focuses on enabling the student to schedule appointments, review physician interpretations, patient files and monitor patients' heart rate.

Important Courses Under This Specialization

- Anatomy and physiology of cardiovascular systems
- Cardiography
- Ultrasound heart imaging
- Heart testing

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

**Detailed
Field**

Medical Diagnostic And Treatment Technology (0914)

**Specialization
Name**

Medical Laboratory (091404)

Definition

This specialization aims to provide the student with the knowledge and skills to carry out medical analyzes based on all clinical samples and efficiently reach results indicating patient's state of health for diagnosis, treatment and disease prevention.

Other Specializations Included In The Definition

- Medical Laboratory Sciences
- Medical Laboratory Technology
- Laboratories - Blood Transfusion And Blood Banks
- Laboratories - Genetics
- Laboratory Medicine
- Clinical Laboratory Sciences
- Clinical Laboratory Sciences (Clinical Chemistry Sciences)
- Clinical Laboratory Science (Diagnostic Microbiology)
- Clinical Laboratory Science (Cellular And Molecular Pathology)
- Clinical Chemistry
- Clinical Chemistry

Important Courses Under This Specialization

- Clinical Chemistry.
- Medical Microbiology
- Hematology
- Genetics and molecular biology

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Nuclear Medicine (091405)

Definition

This specialization aims to provide the student with the knowledge and skills to use the appropriate radioactive materials appropriate for the organ to be photographed and taken either intravenously or orally.

Other Specializations Included In The Definition

- Nuclear Medicine Technology
- Radiation Protection

Important Courses Under This Specialization

- Radiological anatomy
- Physics of nuclear medicine and devices
- Clinical procedures in nuclear medicine
- Dosimetry and radiation safety

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Radiology Technology (091406)

Definition

This specialization aims to provide the student with the knowledge and skills to use radiation devices to obtain images of bones, organs, soft tissues and blood vessels that make up the human body to detect various diseases.

Important Courses Under This Specialization

- Anatomy
- Ultrasound Imaging
- CT scans
- Magnetic Resonance Imaging

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Diagnostic Radiology (091407)

Definition

This specialization aims to provide the student with the knowledge and skills to perform a set of medical imaging procedures and obtain images of inside the body to explain content to diagnose illness and injury

Other Specializations Included In The Definition

- Applied Radiology Technology
- Diagnostic Radiologic Technology
- Radiological Sciences

Important Courses Under This Specialization

- Anatomy
- Ultrasound Imaging
- CT scans
- Magnetic resonance imaging

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

**Detailed
Field**

Medical Diagnostic And Treatment Technology (0914)

**Specialization
Name**

Therapeutic Radiology (091408)

Definition

This specialization aims to provide the student with the knowledge and skills to use high-energy rays such as X-ray, gamma-ray, neutrons, protons, to destroy cancer cells and shrink tumors.

Important Courses Under This Specialization

- Anatomy
- Radiotherapy physics and devices
- Diagnosis and treatment of tumors
- Radiotherapy technologies

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Ultrasound (091409)

Definition

This specialization aims to provide the student with the knowledge and skills to use sound waves to take images of patients' internal organs. Then doctors review these images to diagnose and treat the health conditions of patients such as heart diseases or cancer and conduct ultrasound scans on pregnant women to monitor the growth of the embryo and pick up any health problems that may be serious in early pregnancy.

Other Specializations Included In The Definition

- Ultrasound Imaging

Important Courses Under This Specialization

- Anatomy
- principles of Radiation Technology
- Computer and medical imaging
- Ultrasound imaging training

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Neurophysiology (091410)

Definition

This specialization aims to provide the student with the knowledge and skills to conduct hearing tests or auditory examination with an audiometer to determine hearing levels. Then results are represented by an audiogram interpreted later by an audiologist or a physician.

Important Courses Under This Specialization

- Neuroanatomy
- Physiology of the nervous system
- Neuropharmacology
- EEG implementation and reports reading

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Audiogram (091411)

Definition

This specialization aims to provide the student with the knowledge and skills to conduct hearing tests or auditory examination with an audiometer to determine the levels of hearing. Then results are represented by an audiogram interpreted later by an audiologist or a physician.

Important Courses Under This Specialization

- Anatomy and physiology
- Diseases affect hearing
- Hearing test techniques
- Analysis and interpretation of audiogram

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Neurogram (091412)

Definition

This specialization aims to provide the student with the knowledge and skills to record the electrical activity of nerves by using two electrodes on the skin to identify the presence of damage or functional dysfunction.

Important Courses Under This Specialization

- Neuroscience
- Physiology of nervous system
- Adverse effects on nerve mapping
- EEG implementation and reports reading

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Polysomnography (091413)

Definition

This specialization aims to provide the student with the knowledge and skills to conduct sleep studies on people who suffer from the possibility of having sleep disorders.

Important Courses Under This Specialization

- Neurophysiology of sleep
- Sleeping disorders
- Sleep disorders in children and the elderly
- Sleep and mental disorders

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Electrocardiography (091414)

Definition

This specialization aims to provide the student with the knowledge and skills to record the electrical activity of the heart in the form of a graph of the effort against time using electrodes placed on the skin.

Important Courses Under This Specialization

- Cardiac organs functions
- Electrocardiography technology
- Devices used in Electrocardiography
- Arrhythmias

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Cardiac Imaging (091415)

Definition

This specialization aims to provide the student with the knowledge and skills to non-surgical imaging of the heart through the use of ultrasound, magnetic resonance imaging (MRI), computerized tomography (CT), or nuclear medicine imaging (NM) with PET or SPECT.

Important Courses Under This Specialization

- Cardiovascular anatomy
- Patient preparation for medical imaging
- Medical heart imaging
- Radiation changes in heart disease

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Echocardiography Technology (091416)

Definition

This specialization aims to provide the student with the knowledge and skills to plan 2D and 3D ultrasound and a Doppler ultrasound to create images of the heart.

Important Courses Under This Specialization

- Cardiovascular anatomy
- Patient Preparation for medical imaging
- Heart Ultrasound
- Radiation changes in heart disease

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Lithotripsy (091417)

Definition

This specialization aims to provide the student with the knowledge and skills to operate devices used for the physical destruction of solid mass, such as kidney stones.

Important Courses Under This Specialization

- Dissection of the kidneys and urinary system
- Diseases affecting the kidneys and urinary system
- Patient Preparation for lithotripsy
- Lithotripsy techniques

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Clinical Pathology (091418)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose the disease based on the laboratory analysis of somatic fluids, such as blood, urine, homogeneous tissues or extracts using chemistry tools, microbiology, blood diseases and molecules.

Important Courses Under This Specialization

- General Pathology
- Cardiovascular Disease
- Digestive system diseases
- Microscopy of pathological samples

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Neuropathology (091419)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose diseases of the nervous system, muscles and skeletal system, whether degenerative, infectious, metabolic, immunological, tumors or blood vessels based on microscopic, biochemical, immunological and molecular examination of tissues.

Important Courses Under This Specialization

- Neuroscience
- Common neurological diseases
- Anatomical and histological changes in neurological diseases
- Sample preparation and microscopy in neurology

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Anatomical Pathology (091420)

Definition

This specialization aims to provide the student with the knowledge and skills to diagnose a disease based on microscopic, biochemical, immunological and molecular examinations of the organs and tissues.

Other Specializations Included In The Definition

- Labs - Cell Pathology
- Laboratories - Histopathology

Important Courses Under This Specialization

- Principles of histology
- Clinical Biochemistry
- Clinical immunology
- Clinical cytology

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Medical Microbiology (091421)

Definition

This specialization aims to provide the student with the knowledge and skills to isolate and identify microbial factors that cause infectious diseases. It also deals with medical supervision of clinical microbiology laboratories that identify viruses, bacteria, fungi, and parasites, and perform their tests to ensure selecting appropriate antibiotics to treat related diseases.

Important Courses Under This Specialization

- Medical bacteriology
- Medical parasitology
- Medical mycology
- Medical virology

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Medical Diagnostic And Treatment Technology (0914)

Specialization
Name

Hematopathology (091422)

Definition

This specialization aims to provide the student with the knowledge and skills to study, analyze, treat and follow up blood diseases, including blood tumors, blood component elements, clotting, immunological interaction of blood and blood bank in some areas and laboratory and diagnostic methods to diagnose these diseases.

Other Specializations Included In The Definition

- Hematology - Tissue Matching
- Blood And Serum Diseases

Important Courses Under This Specialization

- Hematology
- Microscopic examination
- Microscopic changes in anemic blood
- Microscopic changes in the blood in cancer cases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Therapeutic Nutrition (091501)

Definition

This specialization aims to provide the student with the knowledge and skills to assess the health nutritional status of patients, assess nutritional needs according to health status, including assessing tubular and intravenous nutritional needs of critical cases patients and taking necessary measurements. It also deals with spreading food awareness and participating in formulating nutritional policies and applying them to reduce and prevent chronic diseases related to nutrition, supervising the application of quality standards in community nutritional programs, preparing relevant reports and participating in medical nutritional research.

Other Specializations Included In The Definition

- Clinical Nutrition
- Clinical Nutrition
- Sports Nutrition
- Sports Nutrition And Exercising

Important Courses Under This Specialization

- Nutritional assessment
- Nutritional needs
- Tubular and intravenous therapeutic feeding
- Hospital therapeutic feeding

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Emergency Medical Services (091502)

Definition

This specialization aims to provide the student with the knowledge and skills to therapeutically intervene in diseases and injuries that require an urgent medical response at the site and transfer a patient to the next care point, such as the hospital's emergency department.

Important Courses Under This Specialization

- Essential skills for medical emergencies
- Injury emergency
- Respiratory emergency
- Advanced heart and life care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Health Education (091503)

Definition

This specialization aims to provide the student with the knowledge and skills to educate people about health and eliminate the ignorance of health issues, including giving information and encouraging life skills that raise the health of individuals and society.

Important Courses Under This Specialization

- Principles of health education
- Practical methods of health education
- Nutrition and health education
- Media and tools for health education

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Rehabilitation Medicine (091504)

Definition

This specialization aims to provide the student with the knowledge and skills to help the patient improve capabilities required for daily life after being affected by illness or injury or the side effects of medical treatment.

Other Specializations Included In The Definition

- Psychological And Mental Rehabilitation
- Rehabilitation Sciences

Important Courses Under This Specialization

- Diseases causing disability
- Neurophysiological tests
- Rehabilitation of mental disabilities
- Rehabilitation interventions in spine injuries

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Occupational Therapy (091505)

Definition

This specialization aims to provide the student with the knowledge and skills to assess and treat the daily life skills of people who suffer from physical, nervous or cognitive problems by developing their capabilities, restoring them or preserving them from retreat and deterioration.

Important Courses Under This Specialization

- Anatomy and physiology
- Human growth and development
- Medical aspects of disability and illness
- Clinical practice of occupational therapy

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Physical Therapy (091506)

Definition

This specialization aims to provide the student with the knowledge and skills to examine and thoroughly evaluate a patient, develop and implement a physical therapy plan. It also focuses on therapeutic intervention when movement and functions are influenced by aging, diseases, disorders, conditions or environmental factors and methods of relieving joints and muscular pain, developing and restoring the maximum mobility and functional ability of people at any stage of life.

Other Specializations Included In The Definition

- Sports Rehabilitation
- Sports Physiotherapy
- Musculoskeletal Physiotherapy
- Paediatric Physiotherapy
- Cardiac And Pulmonary Physiotherapy
- Neurological Physiotherapy
- Physiotherapist
- Physiotherapy (Sports Medicine)
- Physiotherapy (Paediatrics)
- Physiotherapy (Bones)

Important Courses Under This Specialization

- Anatomy
- Physiology
- Physiotherapy methods
- Clinical motor exercises

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Prostheses (091507)

Definition

This specialization aims to provide the student with the knowledge and skills to develop artificial or prosthetic devices (electrical, mechanical) for those who suffer from problems or loss of a body part.

Other Specializations Included In The Definition

- Prostheses And Auxiliary Devices

Important Courses Under This Specialization

- Anatomy
- Movement sciences
- Design and manufacture of artificial limbs for upper limbs
- Designing and manufacturing lower limb prostheses

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Foot And Ankle Treatment (091508)

Definition

This specialization aims to provide the student with the knowledge and skills to treat feet and correct problems of foot related to the way of standing or walking.

Important Courses Under This Specialization

- Foot and Ankle Anatomy
- Arthritis
- Foot diseases and injuries
- Surgical interventions in treatment of foot and ankle

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Respiratory Therapy (091509)

Definition

This specialization aims to provide the student with the knowledge and skills to evaluate, treat and care for respiratory patients in critical and chronic cases. It also includes oxygen therapy, sprays, lung expansion and intrusive and non-invasive artificial respiration. It also deals with diagnostic work in the lung function laboratory.

Other Specializations Included In The Definition

- Respiratory Care

Important Courses Under This Specialization

- Anatomy and physiology
- Arterial blood gases
- Diagnosis and monitoring of cardiac pulmonary system
- Bronchopulmonary expansion therapy and bronchial care

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Optics (091510)

Definition

This specialization aims to provide the student with the knowledge and skills to examine, diagnose, treat and follow up diseases and injuries of the eye and visual system that do not require surgical intervention. It also deals with describing corrective lenses for consideration.

Other Specializations Included In The Definition

- Optometrist

Important Courses Under This Specialization

- Anatomy
- Optical Physical Engineering
- Ophthalmic optics and methods of adjusting lenses
- Clinical vision examination

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Speech Therapy (091511)

Definition

This specialization aims to provide the student with the knowledge and skills to evaluate, diagnose and treat speech, language, communication and swallowing problems.

Other Specializations Included In The Definition

- Speech And Hearing Diseases
- Audiology
- Hearing And Balance
- Speech Diseases
- Speech And Swallowing Diseases
- Speech, Language, And Hearing Sciences

Important Courses Under This Specialization

- Anatomy and physiology
- Audiology
- Language pathology and pronunciation
- Sound physics and production

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Therapy And Rehabilitation (0915)

Specialization
Name

Operating Rooms (091512)

Definition

This specialization aims to provide the student with the knowledge and skills to assist nursing staff in preparing patients and operating room environments for surgery and providing assistance to the medical team during surgical operations. It also enables him to prepare and maintain sterile medical supplies and equipment for medical work.

Important Courses Under This Specialization

- Diseases requiring surgical intervention
- Equipping surgical operating rooms
- Operating room sterilization
- Medical sterilization devices

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Pharmacy (0916)

Specialization
Name

Pharmacy (091601)

Definition

This specialization aims to provide the student with the knowledge and skills to dispense proper medicine for the patient according to prescriptions. It also enables him to provide the patient with complete and scientific information about how to take medication, preserve it, expected side effects, what to do about them and so on, in addition to preparing medicines and ensuring their quality before dispensing them to patients.

Other Specializations Included In The Definition

- Analytical Pharmacy
- Pharmacy Practice

Important Courses Under This Specialization

- Clinical Biochemistry
- Medicinal Chemistry
- Pharmacology
- Drug safety

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Pharmacy (0916)

Specialization
Name

Pharmaceutical Sciences (091602)

Definition

This specialization aims to provide the student with the knowledge and skills to discover, manufacture, develop and regulate pharmaceutical products. It also deals with the authorization and marketing of safe and effective drugs in treating and preventing various diseases and evaluating their positive impact on the body.

Other Specializations Included In The Definition

- Pharmaceutics
- Industrial Pharmacy
- Pharmaceutical Sciences
- Quality Control Of Pharmaceutical Products
- Natural Products
- Medicinal Plants - Analysis Of Drugs
- Pharmacognosy
- Natural Products And Alternative Medicine
- Plant Chemistry And Natural Products

Important Courses Under This Specialization

- Physical pharmacy
- Pharmacy formulation
- Advanced automated analysis of pharmaceutical compounds
- Advanced systems for carrying the drug

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed

Field

Pharmacy (0916)

Specialization
Name

Pharmaceutical Care (091603)

Definition

This specialization aims to provide the student with the knowledge and skills to study the effect of drugs on physiological processes in the human body, pathological condition, ways body responds to them, possible side effects and interaction of the drug with various medications. It deals with evaluating the optimal use of the drug in terms of pathological condition and appropriate dose and its interaction with different medications to reach the optimal positive impact on the patient's quality of life.

Other Specializations Included In The Definition

- Clinical Pharmacy
- Clinical Pharmacy
- Clinical Pharmacy (Pediatrics Treatments)
- Clinical Pharmacy (Organ Transplant)
- Clinical Pharmacy (Emergency Medicine)
- Clinical Pharmacy (Therapeutic Intravenous Nutrition)
- Clinical Pharmacy (Intensive Care Therapy)
- Clinical Pharmacy (Cardiology Therapy)
- Clinical Pharmacy (Cancer Therapy)
- Clinical Pharmacy (Internal Medicine Therapy)
- Clinical Pharmacy (Nephrology Treatments)
- Clinical Pharmacy (Infectious Diseases Therapy)
- Pharm D

Important Courses Under This Specialization

- Pharmacology
- Clinical pharmacokinetics
- Clinical toxicology
- Pharmacology in internal and psychiatric diseases

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Pharmacy (0916)

Specialization
Name

Pharmaceutical Administration (091604)

Definition

This specialization aims to provide the student with the knowledge and skills to apply administrative, economic and social concepts to works of examining the quality of different pharmaceutical preparations (therapeutic, cosmetic and nutritional) from chemical, pharmaceutical, microbiological aspects to ensure quality, effectiveness and safety of these products.

Important Courses Under This Specialization

- Health care policies
- Medication economics
- Health-care services
- Health Services Administration

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

**Detailed
Field**

Traditional And Complementary Medicine And Therapy (0917)

**Specialization
Name**

Complementary And Alternative Medicine (091701)

Definition

This specialization aims to provide the student with the knowledge and skills to provide health care to patients and treat diseases through unconventional methods and techniques based on proven evidence.

Other Specializations Included In The Definition

- Chiropractic Medicine
- Acupuncture
- Aromatherapy
- Ayurvedic Medicine
- Medicinal Herbs
- Herbology
- Holistic Medicine
- Homeopathy
- Traditional Medicine

Important Courses Under This Specialization

- Principles and concepts of complementary and alternative medicine
- Complementary and alternative medicine practices
- Legislative systems and practice ethics
- Folk medicine practices in the Kingdom of Saudi Arabia

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Phlebotomy (091901)

Definition

This specialization aims to provide the student with the knowledge and skills to draw blood from patients of different ages and health conditions. It prepares the patient and the laboratory sample and specifies the anatomical sites for drawing blood according to the patient's age, errors affecting the result of the analysis and health risks resulting from exposure to .blood

Important Courses Under This Specialization

- Principles of vascular anatomy
- Methods of drawing blood in children and adults
- Laboratory samples to phlebotomy
- Occupational Safety

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Opticianry (091902)

Definition

This specialization aims to provide the student with the knowledge and skills to examine and select glasses and visual aids appropriate for the individual.

Important Courses Under This Specialization

- Anatomy and physiology of the optic system
- Common vision problems
- Eyesight measurement
- Preparing medical glasses and installing lenses

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Epidemiology (091903)

Definition

This specialization aims to provide the student with the knowledge and skills to study, analyze and monitor the spread of diseases, disabilities and trauma within a particular group or region and develop mechanisms to prevent and control them.

Other Specializations Included In The Definition

- Field Epidemiology
- Crisis Epidemiology And Management
- Epidemiology And Medical Statistics
- Clinical Epidemiology

Important Courses Under This Specialization

- Basics of Biostatistics
- Environmental health sciences
- Non-infectious diseases Epidemiology
- Infectious diseases Epidemiology

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Infection Control (091904)

Definition

This specialization aims to provide the student with the knowledge and skills to study methods of infection transmission and microbial entry gates, learn about infection control procedures and protocols and sterilization and disinfection methods used to control infection.

Important Courses Under This Specialization

- Principles of Infection control
- Hospital infection control measures
- Disinfection and sterilization techniques
- Quarantine

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Preventive Health (091905)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, monitor and follow up the implementation and evaluation of the procedures followed to prevent the occurrence of injuries and diseases and early detection of them and to prevent the occurrence of complications that affect the quality of life of the patient.

Important Courses Under This Specialization

- Public health policies
- Applied Statistics
- Epidemiology and prevention of chronic diseases
- Road accidents and injury prevention

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Dialysis (091906)

Definition

This specialization aims to provide the student with the knowledge and skills to evaluate the patient before and after dialysis, monitor him during the process and call a physician when needed. It also operates, monitors and controls dialysis machines according to the patient's needs and ensures that they work efficiently and safely.

Important Courses Under This Specialization

- Procedures for preparing the patient for dialysis
- Clinical evaluation of the patient before dialysis
- Clinical evaluation of the patient after dialysis
- Devices used in dialysis

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Medical Education (091907)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, organize, follow-up and evaluate educational and development programs offered to health workers.

Other Specializations Included In The Definition

- Dental Education

Important Courses Under This Specialization

- Learning theories and methods
- Curriculum and teaching methods
- Measurement and evaluating in medical education
- Medical education techniques

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Medical Coding (091908)

Definition

This specialization aims to provide the student with the knowledge and skills to review and analyze the medical information of patients and translate them into codes and numbers according to a complex classification system that facilitates the collection of data and used in improving the quality of health care and its effectiveness

Other Specializations Included In The Definition

- Glossary of Medical Terms
- Diagnostic coding: ICD-10
- Procedural coding: CPT
- Coding procedures

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Medical Sterilization (091909)

Definition

This specialization aims to provide the student with the knowledge and skills to perform sterilization procedures for medical and surgical instruments, surgery rooms and patient care supplies. It also deals with the technical specifications of sterilization devices and their requirements according to international standards in coordination with the concerned authorities.

Important Courses Under This Specialization

- Microbiology
- Important surgical equipment and tools
- principles of infection control
- Disinfection and sterilization techniques

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Health Security (091910)

Definition

This specialization aims to provide the student with the knowledge and skills to provide protection and security services for health facilities and their employees and those who benefit from their services from inpatient patients and auditors, organize visits dates and make necessary interventions in cases of disasters and crises.

Important Courses Under This Specialization

- Security essentials in health facilities
- Health systems and regulations
- Teamwork Skills
- Communication skills

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Health Promotion (091911)

Definition

This specialization aims to provide the student with the knowledge and skills to reinforce health-related behaviors and study economic, environmental, social and organizational factors that affect the health level of the individual and society.

Other Specializations Included In The Definition

- Health Awareness And Promotion
- Personal Health

Important Courses Under This Specialization

- Biostatistics
- Health education
- Community Health
- Health policies and regulations

Broad field: **Health And Welfare (09)**

Narrow field: **Health (091)**

Detailed
Field

Other Programs In Health Not Elsewhere Classified (0919)

Specialization
Name

Other Specializations In Health Not Elsewhere Classified (091999)

Definition

The code (Other Specializations In Health Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Health” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Health And Welfare (09)**

Narrow field: **Welfare (092)**

**Detailed
Field**

Programs In Welfare Not Further Defined (0920)

**Specialization
Name**

Specialization In Welfare Not Further Defined (092000)

Definition

The code “Specialization In Welfare Not Further Defined” is used for any specialization or program belonging to the narrow field “Welfare”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Health And Welfare (09)**

Narrow field: **Welfare (092)**

Detailed
Field

Care Of The Elderly And Adults With Special Needs (0921)

Specialization
Name

Care For The Elderly (092101)

Definition

This specialization aims to provide the student with the knowledge and skills to offer advice on the best ways to provide non-medical care for the elderly. It also deals with studying the biological, psychological and social characteristics of the elderly and their different needs, and how to activate the role of governmental and community institutions towards them to achieve their psychological and social well-being.

Other Specializations Included In The Definition

- Non-Medical Care For Adults With Disability

Important Courses Under This Specialization

- Aging
- Medical diseases in the elderly
- Social service in the field of elderly care
- Challenges facing the elderly in Saudi society

Broad field: **Health And Welfare (09)**

Narrow field: **Welfare (092)**

Detailed
Field

Child Care And Youth Services (0922)

Specialization
Name

Family And Child Sciences (092201)

Definition

This specialization is concerned with providing the student with essential knowledge about the family and its composition, family relations, and their impact on children's upbringing. It also covers studying childhood, adolescence, and physical, psychological, and social changes at this stage, as well as ways to build counseling programs for the family and the child, and scientific and practical tools and interventions that family relationships promote child development and acquisition of different skills.

Other Specializations Included In The Definition

- Child Raising And Caring
- Childhood Media And Counseling
- Family Sciences
- Family And Child Growth
- Family And Childhood
- Childhood Studies

Important Courses Under This Specialization

- Child mental health
- Psychological disorders and problems in children
- Family and Child guidance Programs
- Psychological counseling by playing
- Media production in the field of childhood

Broad field: **Health And Welfare (09)**

Narrow field: **Welfare (092)**

Detailed
Field

Social Work And Counselling (0923)

Specialization
Name

Social Work (092301)

Definition

This specialization aims to provide the student with the knowledge and skills necessary to analyze and understand human behavior and social systems through social studies; to enable him to plan, organize, and provide assistance to clients who face various difficulties in their daily lives. It also deals with methods of assessing psychological and social needs, groups and societies, types of social interventions, methods of support and advice provided to them, in addition to studying and planning organizations and social institutions and administrative aspects for different social support facilities.

Other Specializations Included In The Definition

- Social Counseling
- Family Reform
- Family Counseling
- Social Rehabilitation
- Community Planning And Organization
- Social Treatment
- Social Research
- Local Community Development
- Social Planning And Management Of Social Welfare Institutions
- Organization And Administration In Social Service
- Clinical Social Work

Important Courses Under This Specialization

- Principles of social service
- Human behavior and the social environment
- Social work in the psychology
- Social work in the field of family and childhood
- Social legislation in the Kingdom of Saudi Arabia

Broad field: **Health And Welfare (09)**

Narrow field: **Welfare (092)**

**Detailed
Field**

Other Programs In Welfare Not Further Defined (0929)

**Specialization
Name**

Specialization In Welfare Not Elsewhere Classified (092999)

Definition

The code (Specialization In Welfare Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Welfare” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Health And Welfare (09)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Health And Welfare (098)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Health And Welfare (0988)

Specialization
Name

Inter-Disciplinary Programs And Qualifications Involving Health And Welfare (098888)

Definition

The code of “Inter-Disciplinary Programs And Qualifications Involving Health And Welfare” is used in any Inter-disciplinary programs that majority of the teaching time is devoted to “Health And Welfare”

Broad field: **Health And Welfare (09)**

Narrow field: **Other Programs In Health And Welfare Not Elsewhere Classified (099)**

**Detailed
Field**

Other Programs In Health And Welfare Not Elsewhere Classified (0999)

**Specialization
Name**

Other Specializations In Health And Welfare Not Elsewhere Classified (099999)

Definition

The code (Other Specializations in Health And Welfare Not Elsewhere Classified) is used for any specialization that can be classified within the broad field “Health And Welfare” and has not been classified in a specific narrow or detailed field or elsewhere in the classification.



Field (10)

Services

Personal Services 101

Hygiene And Occupational Health Services 102

Security Services 103

Transport Services 104

Broad field: **Services (10)**

Narrow field: **Programs In Services Not Further Defined (100)**

Detailed
Field

Programs In Services Not Further Defined (1000)

Specialization
Name

Specialization In Services Not Further Defined (100000)

Definition

The code “Specialization In Services Not Further Defined” is used for any specialization or program belonging to the broad field “Services”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Programs In Personal Services Not Further Defined (1010)

Specialization
Name

Specialization In Personal Services Not Further Defined (101000)

Definition

The code “Specialization In Personal Services Not Further Defined” is used for any specialization or program belonging to the narrow field “Personal Services”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Domestic Services (1011)

Specialization
Name

Family Education (101101)

Definition

This specialization aims to provide the student with essential family care skills in educational, financial, social and nutritional aspects. It also addresses home management methods, family relations, parenting skills, and performing basic tasks in the house, such as cooking and sewing, etc. Also, it covers studying how to manage small projects that can be launched from home.

Other Specializations Included In The Definition

- Home Economics
- Home Economics And Art Education
- Consumer Sciences
- Family & Consumer Science

Important Courses Under This Specialization

- Family and family relations
- Home manufacturing and preserving of food
- Home design and decoration
- Clothing technology
- Home management
- Small projects and small household industries

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Domestic Services (1011)

Specialization
Name

Housing And Family Institutions Management (101102)

Definition

This specialization aims to provide the student with the essential skills for home management and housing institutions. It covers the study of family, family relations, home furnishing and preparation to be dwellings, everything related to family economics, ways to rationalize consumption and increase resources, and types of small projects that can be done at home. It also studies different types of residential institutions, their methods of management, maintenance, supervising implementation and renewal of landlords and tenants contracts, etc.

Other Specializations Included In The Definition

- Housing And Corporate Administration
- Housing And Home Administration

Important Courses Under This Specialization

- Principles of Housing management
- Party and conference management
- House furnishing and decoration
- Family Resource Management
- Home Landscaping
- Etiquette art

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Hair And Beauty Services (1012)

Specialization
Name

Beauty (101201)

Definition

This specialization aims to provide the student with the necessary skills to work in cosmetics, women hairdressing, hair care techniques, hairdressing, cutting, using straightening and hairstyling devices, techniques of facial and skin cosmetics, chemical nature of cosmetics, in addition to training the female student on job behavior skills, work ethics, communication skills, customer service and small project management skills.

Other Specializations Included In The Definition

- Skin Care And Makeup
- Hair Care
- Female Grooming Technology

Important Courses Under This Specialization

- Hair Care
- Foundations of skin care and makeup
- Hand and foot care
- Occupational safety and health
- Advanced facial Treatment
- Media makeup

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Hotel, Restaurants And Catering (1013)

Specialization
Name

Hotel Management (101301)

Definition

This specialization aims to provide the student with the knowledge, skills, and competencies for planning, organizing, following up and evaluating hospitality services, housing, and providing food and beverages for guests in hotels and tourist resorts. It also enables the student to acquire other administrative skills such as financial business, quality, human resources, marketing, tourism attraction, customer service and to ensure tourists receive a distinct experience.

Other Specializations Included In The Definition

- Hotel Operations
- Hospitality Management
- Hotel And Hospitality
- Hospitality And Tourism
- Hospitality

Important Courses Under This Specialization

- Fundamentals of the hospitality industry
- Financial and revenue management
- Marketing of hotel and tourism services
- Service Operations Management
- Introduction to the tourism and hospitality industry
- Hotel Health and Safety

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Hotel, Restaurants And Catering (1013)

Specialization
Name

Food And Beverage Services (101302)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies to plan, organize, follow-up and evaluate services of serving food and beverage in hotels, resorts, restaurants and various tourist areas. It addresses methods of preparing menus, cost control, organizing work shifts, preparing and organizing parties, methods of serving food and drink, customer service to ensure they receive a distinct experience.

Important Courses Under This Specialization

- Food and drink serving skills
- Menu planning and cost control
- Fundamentals of Business Administration
- Health and safety of food and drink
- Introduction to the tourism and hospitality industry
- Kitchen and restaurant fittings and equipment

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Hotel, Restaurants And Catering (1013)

Specialization
Name

Food Production (Cooking) (101303)

Definition

This specialization aims to provide the student with the skills to plan and prepare different foods. It covers health and food safety, kitchens and restaurants equipments and fixtures, cold and hot food types, purchasing and storage methods, food and beverage control and sweets, and bakery production. It also focuses on the principles of restaurant management and occupational safety in it.

Other Specializations Included In The Definition

- Desserts
- Food Arts And Skills

Important Courses Under This Specialization

- Principles of food and beverage industry
- Kitchen and restaurant fittings and equipment
- Hot and cold kitchen
- Supply and storage
- Introduction to the tourism and hospitality industry
- Kitchen and restaurant fittings and equipment

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Sports (1014)

Specialization
Name

Sport Science And Physical Activity (101401)

Definition

This specialization aims to study the human body's structure, physiology, and chemistry and apply these studies to movement activities, exercise, and athletic rehabilitation. It also seeks to provide the student with the knowledge and skills that enable him to work in fitness, health, military and public health sectors. It also studies the effective and safe use of various devices and sports equipment.

Other Specializations Included In The Definition

- Physical Fitness
- Motion Science
- Physiology Of Physical Exertion

Important Courses Under This Specialization

- Functional anatomy and physical activity
- Principles of Physical Exercise Physiology and Applications
- Athletic Nutrition
- body shape and therapeutic exercises
- Motor growth and development
- Sports injuries and first aid

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Sports (1014)

Specialization
Name

Sports Training (101402)

Definition

This specialization aims to provide the student with the knowledge and skills to develop the athletic performance of trainees and to reach the desired athletic structure, principles of selection, basics of training, its methods, and rules for building specialized training programs and codifying variables of training loads to prepare for sports competitions. It also deals with correct technical performance and how to evaluate it, develop sports skills and prevent injuries to achieve winning in sports tournaments.

Other Specializations Included In The Definition

- Sport Coaches

Important Courses Under This Specialization

- Advanced study in sports training
- Principles of physical fitness and applications
- Psychology of training and sports competitions
- Principles of Junior Training
- Planning of sports training programs
- Selection in the sports field

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Travel, Tourism And Leisure (1015)

Specialization
Name

Tourism Management (101501)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies to plan, organize, follow-up and evaluate tourism and entertainment services. It also covers principles of the tourism industry, attractions, nature of work of agencies and tourism institutions and methods of designing and implementing tourism programs. It also deals with the business of managing and marketing tourist establishments.

Other Specializations Included In The Definition

- Tourist And Hotel Management
- Tourism
- Travel And Tourism
- Tourism And Hospitality
- Tourism And Hotels
- Tourism And Archaeology
- Tourism And Event Management

Important Courses Under This Specialization

- Essential tourism services
- Ingredients of tourist attractions
- Management of tourist facilities
- Tourism in Saudi Arabia
- Management of museums and exhibitions
- Tourist attractions around the world

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Travel, Tourism And Leisure (1015)

Specialization
Name

Heritage Resource Management (101502)

Definition

This specialization aims to provide the student with the necessary knowledge and skills to plan, organize, follow-up, and evaluate work of managing elements, materials, or heritage buildings in open sites or within museums. It also covers methods of supervising historical, archaeological, natural and museum materials and components, their qualification, maintenance, display, their history, art, details and how to promote them.

Important Courses Under This Specialization

- Heritage registration and documentation
- Economics and marketing of heritage
- Museum management
- Architectural Heritage Administration
- Museology
- Arabic art

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Travel, Tourism And Leisure (1015)

Specialization
Name

Tour Guide (101503)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies to offer tourist guidance services to tourists. It also deals with tour guide tasks, his methods and conditions that must be met, such as appearance, information, language, communication skills, and dealing with others with different cultural and social classes. It also focusses on methods of evaluating and developing the guiding performance.

Important Courses Under This Specialization

- Tourism Types
- Folklore
- Contemporary civilization
- Tourist guide methods
- Organizing tours
- Ecotourism

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

Detailed
Field

Travel, Tourism And Leisure (1015)

Specialization
Name

Event Management And Organization (101504)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies to plan, organize, manage, market and evaluate events and conferences. It addresses principles of event management and services provided, such as food and beverage service, facilities management and various logistical services, in addition to studying marketing activities, sponsoring events, and managing risks in events and regulations organizing them.

Other Specializations Included In The Definition

- Events And Tourism Management
- Management Of Exhibitions And International Conferences

Important Courses Under This Specialization

- Planning and managing of events operations
- Sales Management of Parties
- Creativity in marketing and promotion of events
- Industry conferences and festivals
- Events management principles
- Event risk management

Broad field: **Services (10)**

Narrow field: **Personal Services (101)**

**Detailed
Field**

**Other Programs In Personal Services Not Elsewhere Classified
(1019)**

**Specialization
Name**

**Other Specializations In Personal Services Not Elsewhere Classified
(101999)**

Definition

The code (Other Specializations in Personal Services Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Personal Services” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Services (10)**

Narrow field: **Hygiene And Occupational Health Services (102)**

**Detailed
Field**

**Programs In Hygiene And Occupational Health Services Not
Further Defined (1020)**

**Specialization
Name**

**Specialization In Hygiene And Occupational Health Services Not
Further Defined (102000)**

Definition

The code “Specialization In Hygiene And Occupational Health Services Not Further Defined” is used for any specialization or program belonging to the narrow field “Hygiene And Occupational Health Services”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Services (10)**

Narrow field: **Hygiene And Occupational Health Services (102)**

Detailed
Field

Community Sanitation (1021)

Specialization
Name

Environmental Technology (102101)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies necessary to work in environmental protection, pollution control, ecological monitoring, working in food safety control, health pest control and contribute to awareness campaigns that raise environmental awareness among members of society. It covers fields of public health, communicable diseases, epidemiology, air and water pollution, waste management, insect and animal pest prevention and methods of control.

Important Courses Under This Specialization

- Environmental pollution control
- Food safety
- Healthy pest control
- Quarantine

Broad field: **Services (10)**

Narrow field: **Hygiene And Occupational Health Services (102)**

Detailed
Field

Occupational Health And Safety (1022)

Specialization
Name

Occupational Safety And Health (102201)

Definition

This specialization aims to provide the student with the knowledge, skills and competencies to analyze, monitor and control potential sources of hazards in the work environment to protect individuals, property and surrounding environment. It also deals with types of risks, mechanical, chemical, biological, and even psychological and ways to prevent them. It also deals with safety practices and procedures, ensuring compliance, and educating workers on their importance and methods of application.

Other Specializations Included In The Definition

- Occupational Health
- Healthy Work Environment
- Occupational Safety
- Industrial Safety And Security
- Fire Safety

Important Courses Under This Specialization

- Occupational Health and Safety
- Risk Assessment Methods
- Safety management and loss prevention
- Domestic and international legislation for safety and occupational health

Broad field: **Services (10)**

Narrow field: **Hygiene And Occupational Health Services (102)**

**Detailed
Field**

**Other Programs In Hygiene And Occupational Health Services
Not Further Defined (1029)**

**Specialization
Name**

**Other Specializations In Hygiene And Occupational Health Services
Not Elsewhere Classified (102999)**

Definition

The code (Other Specializations In Hygiene And Occupational Health Services Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Hygiene And Occupational Health Services” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

Detailed
Field

Programs In Security Services Not Further Defined (1030)

Specialization
Name

Specialization In Security Services Not Further Defined (103000)

Definition

The code “Specialization In Security Services Not Further Defined” is used for any specialization or program belonging to the narrow field “Security Services”, and there is no additional information about it that help classify it in a specific detailed field.

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

Detailed
Field

Military And Defense (1031)

Specialization
Name

Military Science (103101)

Definition

This specialization aims to provide the student with the knowledge and skills to achieve military tasks entrusted to military sectors and qualifying him to perform leadership functions at the tactical, operational and strategic levels.

Other Specializations Included In The Definition

- Special Operations And Informal War

Important Courses Under This Specialization

- Operations and communications
- Military strategies
- Fighters Direction
- Weapons science and armament systems

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

Detailed
Field

Military And Defense (1031)

Specialization
Name

Air Sciences (103102)

Definition

This specialization aims to provide the student with the knowledge and skills to lead and direct various types of military aircraft, carry out military maneuvers and to take the appropriate decision to achieve specified goals.

Other Specializations Included In The Definition

- Directing The Fighters

Important Courses Under This Specialization

- Fundamentals of Aeronautical Engineering
- Command of military aircraft
- Air martial arts
- Directing military aircraft

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

Detailed
Field

Military And Defense (1031)

Specialization
Name

Technical Air Sciences (103103)

Definition

This specialization aims to provide the student with the knowledge and skills to operate and administer the work of devices and electronic equipment of the combat aircraft.

Other Specializations Included In The Definition

- Operation Of The Armament Systems
- Operation Of The Drone Systems
- Arming The Aircraft
- Operating Air Alarming Devices
- Ammunition Maintenance
- Maintenance Of Parachutes And Rescue Methods

Important Courses Under This Specialization

- Fundamentals of Aeronautical Engineering
- Air Traffic control devices
- Air alarm systems
- Aircraft Arming

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

Detailed
Field

Military And Defense (1031)

Specialization
Name

Marine Science (103104)

Definition

This specialization aims to provide the student with the knowledge and skills to carry out military tasks entrusted with the navy. It also develops managerial and leadership skills and studies basic marine science and marine techniques.

Other Specializations Included In The Definition

- Marine Arts

Important Courses Under This Specialization

- Fundamentals in marine science
- Operations and communications
- Naval military strategies
- Command of warships

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

Detailed
Field

Protection Of Persons And Property (1032)

Specialization
Name

Security Sciences (103201)

Definition

This specialization aims to provide the student with the knowledge and skills to study security, criminal and intelligence fields, analyze their problems and develop innovative solutions for them, using modern tools and applications. It also develops skills of officers in the real work environment, in addition to developing skills to lead the team effectively in different circumstances, and to act legally and ethically as a security officer in various security sectors.

Other Specializations Included In The Definition

- Public Security
- Security Studies
- Aviation Security
- Narcotics Control
- Counterfeiting Control
- Facility Security
- Police Sciences
- Intelligence
- Internal Security
- Customs Control

Important Courses Under This Specialization

- Intelligence studies
- Examining weapons and machines
- Criminal systems
- Drugs and methods of combating
- Forensic medicine and toxicology

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

Detailed
Field

Protection Of Persons And Property (1032)

Specialization
Name

Anti-Terrorism Strategy And Policy (103202)

Definition

This specialization aims to provide the student with the knowledge and skills to identify the nature, dynamics, methods of terrorist organizations, terrorist operations and formulation of anti-terrorist policies. It also studies financing of terrorism, accompanying legal developments, intelligence and military role in countering terrorism.

Important Courses Under This Specialization

- An introduction to terrorism
- Terrorist financing methods
- Counter-terrorism methods
- The military role in combating terrorism

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

Detailed
Field

Protection Of Persons And Property (1032)

Specialization
Name

Ideological Security (103203)

Definition

This specialization aims to provide the student with the knowledge and skills to identify the concept of intellectual security, its legal basis, importance, goals, components, fields and what threatens it. It also deals with intellectual deviation, its causes, risks, methods of discovery, ways to prevent, combating and explain suspicions adopted by the misguided group in the Kingdom and response to them based on texts of The Qur'an and Sunnah, in addition to introducing some contemporary groups and intellectual currents.

Important Courses Under This Specialization

- Intellectual Security concept and its fundamental
- Intellectual deviation
- Misconceptions of stray group and responses
- Contemporary intellectual Doctrines

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

Detailed
Field

Protection Of Persons And Property (1032)

Specialization
Name

Industrial Security (103204)

Definition

This specialization aims to provide the student with the knowledge and skills to study the industrial safety concept, approved safety laws and standards and how to apply them. It also addresses safety requirements in industrial facilities, their application procedures, and methods of protection against various risks and radiations to protect lives and public and private property.

Important Courses Under This Specialization

- Fundamentals of industrial security
- Industrial Facility Construction
- Industrial hazards prevention
- Occupational safety measures

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

Detailed
Field

Protection Of Persons And Property (1032)

Specialization
Name

Border Security (103205)

Definition

This specialization aims to enable the student to understand strategies used in securing and protecting borders, in addition to developing skills for using weapons, carrying out investigations, inspections, communications, knowing operational procedures and rules of engagement in situations and border crises.

Important Courses Under This Specialization

- Fundamentals of border security
- Military training
- Regulations and legislation of border security
- Rules of engagement in border security

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

Detailed
Field

Protection Of Persons And Property (1032)

Specialization
Name

Civil Defense (103206)

Definition

This specialization aims to provide the student with the knowledge and skills to plan, deliver, follow-up and evaluate services that protect the population and public and private property from dangers of fire, disasters, wars and various accidents, relief for afflicted and secure transportation and communications safety and workflow in public facilities.

Other Specializations Included In The Definition

- Crisis And Disaster Management
- Security Crisis And Disaster Management
- Emergency Management
- Fire And Rescue

Important Courses Under This Specialization

- Response in emergency and crisis
- Security rules and means and Industrial safety
- Hazard warning devices
- Fire fighting

Broad field: **Services (10)**

Narrow field: **Security Services (103)**

**Detailed
Field**

**Other Programs In Security Services Not Further Defined
(1039)**

**Specialization
Name**

**Other Specialization In Security Services Not Elsewhere Classified
(103999)**

Definition

The code (Other Specialization In Security Services Not Elsewhere Classified) is used for any specialization that can be classified within the narrow field “Security Services” and has not been classified in a specific detailed field or elsewhere in the classification.

Broad field: **Services (10)**

Narrow field: **Transport Services (104)**

Detailed
Field

Transport Services (1041)

Specialization
Name

Nautical Sciences (104101)

Definition

This specialization aims to enable the student about the basics and regulations of shipping routes, the marine-based arts and duties, maritime communications, maps and navigational devices. It also deals with the principles of shipbuilding, suitability, operation, command, the safety of individuals, passengers and cargo, international maritime law, international treaties, maritime transport laws, goods circulation and environmental protection.

Important Courses Under This Specialization

- Ships building and hulls
- Meteorology
- maritime law
- Maritime Communication
- Principles of maritime safety
- Deck work

Broad field: **Services (10)**

Narrow field: **Transport Services (104)**

Detailed
Field

Transport Services (1041)

Specialization
Name

Ports And Maritime Transport (104102)

Definition

This specialization aims to provide the student with the knowledge and skills to manage, operate and plan commercial or petroleum ports, manage container terminals and navigation control systems in ports, at sea and on the coasts. It also deals with navigational accounting, maritime safety, regulations, laws, sailing procedures, transport, shipping, marine insurance, port economics, maritime transport and logistics.

Other Specializations Included In The Definition

- Marine Ports
- Ports Management And Operation

Important Courses Under This Specialization

- Shipping logistics
- Maritime law
- Economics of shipping
- Principles of maritime safety
- Shipping and unloading works
- Marine insurance

Broad field: **Services (10)**

Narrow field: **Transport Services (104)**

Detailed
Field

Transport Services (1041)

Specialization
Name

Aviation Systems (104103)

Definition

This specialization aims to provide the student with the essential knowledge and skills to work in operating and maintaining air navigation and navigation communications systems and devices used in civil aviation.

Other Specializations Included In The Definition

- Navigational Aids Systems
- Radar Systems
- Communication Systems And Voice Communication Switches
- Data Processing Systems (National Network)

Important Courses Under This Specialization

- The basics of electronics
- Standard and digital Communications
- Maintenance of aviation devices and systems
- Air Navigation Devices Safety Management Systems

Broad field: **Services (10)**

Narrow field: **Transport Services (104)**

Detailed
Field

Transport Services (1041)

Specialization
Name

Air Traffic Control (104104)

Definition

This specialization aims to provide the student with the essential knowledge and skills to direct aircraft, regulate their movement, and to ensure the safety of the airspace, and effective intervention in emergencies that may occur to the aircraft.

Other Specializations Included In The Definition

- Tower Monitoring
- Approaching Monitoring
- Area Monitoring

Important Courses Under This Specialization

- Basics of Air traffic controlling
- Meteorology
- Aviation laws and regulations
- Emergency intervention in aviation
- Communication skills

Broad field: **Services (10)**

Narrow field: **Transport Services (104)**

Detailed
Field

Transport Services (1041)

Specialization
Name

Operation And Flight Safety (104105)

Definition

This specialization aims to provide the student with the essential knowledge and skills to operate and evaluate air transport and ground services. It also deals with the operational processes of transporting individuals and goods by air, including passenger and freight, aviation, flight schedule, air services, support services in airport yards and securing the flow of air traffic according to the standards and requirements of the International Civil Aviation Organization (ICAO)

Other Specializations Included In The Definition

- Safety And Operation Of Airports
- Airplane Parking Lots
- Ancillary Ground Equipment
- Training Of Ground Services Equipment Operators

Important Courses Under This Specialization

- Ground handling services training
- Emergency procedures at airports, and handling land and air accidents
- Regulations and rules of Air transport safety
- Standard operating procedures

Broad field: **Services (10)**

Narrow field: **Transport Services (104)**

Detailed
Field

Transport Services (1041)

Specialization
Name

Aviation (104106)

Definition

This specialization aims to qualify the aviation student to obtain private aviation licenses, automatic and multi-engine aviation and the commercial pilot's license. Through this specialization, the student will acquire theoretical and practical training applied and approved by the General Authority of Civil Aviation.

Important Courses Under This Specialization

- Essentials of Aviation
- General navigation
- Flight safety
- Air law
- Practical Training

Broad field: **Services (10)**

Narrow field: **Transport Services (104)**

Detailed
Field

Transport Services (1041)

Specialization
Name

Driving The Trains (104107)

Definition

This specialization aims to provide the student with the essential knowledge and skills to drive trains to transport passengers and goods safely. It addresses technical skills of train driving, safety and security aspects and responses required in emergency or unusual circumstances.

Important Courses Under This Specialization

- Basics and concepts of the railways industry
- Basics of the principles of security and safety in the railway
- Firefighting skills and dealing with fires
- Communications and signals
- Safety on train
- Foundations of train maintenance

Broad field: **Services (10)**

Narrow field: **Transport Services (104)**

Detailed
Field

Transport Services (1041)

Specialization
Name

Station And Passenger Services (104108)

Definition

This specialization aims to provide the student with the essential knowledge and skills related to occupational health and safety in the workplace, communications, and customer service related to passenger transport operations on railways. It also deals with workplace fires, emergency response, passenger assistance and service provision.

Important Courses Under This Specialization

- The principles of security and safety in the railway
- Basics of railway operations
- Firefighting skills and dealing with fires
- Skills and concepts of Emergency rescue and evacuation
- Concepts and skills of Incident management
- Booking and ticketing techniques
- Skills in dealing with dangerous materials

Broad field: **Services (10)**

Narrow field: **Inter-Disciplinary Programs And Qualifications Involving Services (108)**

Detailed
Field

Inter-Disciplinary Programs And Qualifications Involving Services (1088)

Specialization
Name

Inter-Disciplinary Programs And Qualifications Involving Services (108888)

Definition

The code of “Inter-Disciplinary Programs And Qualifications Involving Services” is used in any Inter-disciplinary programs that majority of the teaching time is devoted to “Services”

Broad field: **Services (10)**

Narrow field: **Other Programs In Services Not Elsewhere Classified (109)**

Detailed
Field

Other Programs In Services Not Elsewhere Classified (1099)

Specialization
Name

Other Specializations In Services Not Elsewhere Classified (109999)

Definition

The code (Other Specializations in Services Not Elsewhere Classified) is used for any specialization that can be classified within the broad field “Services” and has not been classified in a specific narrow or detailed field or elsewhere in the classification.

Field (99)
Field Unknown

Field Unknown 999

Broad field: **Field Unknown (99)**

Narrow field: **Field Unknown (999)**

Detailed
Field

Field Unknown (9999)

Specialization
Name

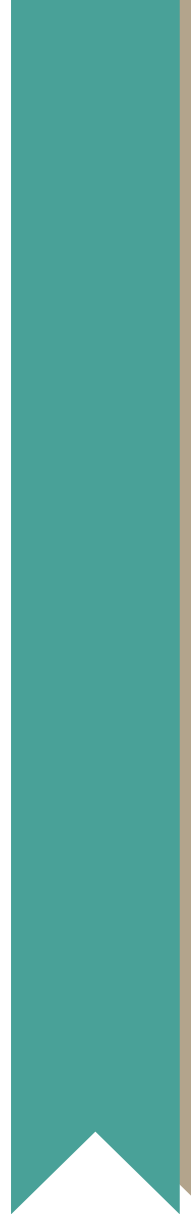
Specializations Unknown (999999)

Definition

The code (Specializations Unknown) is used for any discipline that has not been classified within the previous field and no additional information is available that helps to classify it within any specific broad, narrow or detailed field or elsewhere in the classification. This category does not form part of the classification itself, except that when collecting data. In this case, it will be needed to have (999999) for unknown or unspecified fields of education.

Appendices

- **Appendix (1):**
index of specializations according to educational fields.
- **Appendix (2):**
index of educational specializations in alphabetical order.



Appendix (1): index of specializations according to educational fields

00 Generic Programs And Qualifications

001 Basic Programs And Qualifications

0011 Basic Programs And Qualifications

- 001101 Early Childhood Education (Nursery)
- 001102 Early Childhood Education (Kindergarten)
- 001103 Primary Education
- 001104 Intermediate Education (General)
- 001105 Intermediate Education (Vocational)
- 001106 Secondary Education (General)
- 001107 Secondary Education (Vocational)
- 001108 Audio And Video Devices
- 001109 Photography
- 001110 Photographic Photography
- 001111 Design And Printing Layout
- 001112 Offset Printing
- 001113 Automatic Printing
- 001114 Binding
- 001115 Office Devices And Machines
- 001116 Operating Computer Numerical Control (Cnc) Machines
- 001117 Operating Production Machines
- 001118 Structural Electricity
- 001119 Industrial Electricity
- 001120 Electric Elevators
- 001121 Electronics
- 001122 Computer Maintenance And Extension Of Computer Network Cables
- 001123 Car Mechanics
- 001124 Cooling And Air Conditioning
- 001125 Metal Plates
- 001126 Mobile Devices Maintenance
- 001127 Welding
- 001128 Aluminum
- 001129 General Carpentry
- 001130 Haircutting
- 001131 Auto Tinsmithing
- 001132 Car Painting And Polishing
- 001133 Transport Vehicles

- 001134 Men's Sewing
- 001135 Sanitary Supplies
- 001136 Surveying
- 001137 Civil Observation
- 001138 Architectural Drawing
- 001139 Architectural Observation
- 001140 Heavy Equipment
- 002 Literacy And Numeracy**
- 0021 Literacy And Numeracy**
- 002101 Literacy And Numeracy
- 003 Personal Skills And Development**
- 0031 Personal Skills And Development**
- 003101 Personal skills and development

01 Education

011 Education

0111 Education Science

- 011101 Islamic Education
- 011102 Fundamentals Of Education
- 011103 Educational Measurement And Evaluation
- 011104 Curricula And Teaching Methods
- 011105 Educational Technologies
- 011106 Learning Resources
- 0112 Training For Pre-School Teachers**
- 011201 Early Childhood
- 0113 Teacher Training Without Subject Specialization**
- 011301 Language And Communication Disorders
- 011302 Behavior Disorders And Autism
- 011303 Emotional And Behavioral Disorders
- 011304 Visual Impairment
- 011305 Hearing Impairment
- 011306 Mental Retardation
- 011307 Early Intervention
- 011308 Special Education
- 011309 Learning Difficulties
- 011310 Mental Excellence And Innovation
- 011311 Multi Impairments

011312	Applied Behavior Analysis	021102	Graphic Design And Digital Media
011313	Primary Education	021103	Music Production
011314	Adult And Continuing Education	021104	Advertising Creative Design
0114	Teacher Training With Subject Specialization	021105	Photography.
011401	Primary Education (Early Grades)	021106	Digital And Visual Production
011402	Primary Education (Upper Grades)	021107	Printing And Wrapping
011403	Social Sciences (Educational)	0212	Fashion, Interior And Industrial Design
011404	Home Economics (Educational)	021201	Interior Design
011405	School Activities	021202	Product Design
011406	Physical Education	021203	Jewelry Design
011407	Primary Education (Islamic Studies)	021204	Fashion Design & Textile
011408	Primary Education (Mathematics)	021205	History Of Clothing And Embroidery
011409	Primary Education (Science)	0213	Fine Arts
011410	Primary Education (Arabic Language)	021301	Drawing And Arts
011411	Biology (Educational)	021302	Engraving, Sculpture And Decoration
011412	Mathematics (Educational)	0214	Handicrafts
011413	Science (Educational)	021401	Artwork
011414	Physics (Educational)	021402	Tailoring & Dressmaking
011415	Chemistry (Educational)	0215	Music And Performing Arts
011416	Computer Science (Educational)	021501	Cinema And Theatre
011417	History And Civilization (Educational)	021502	Music
011418	Art Education	022	Humanities (Except Languages)
011419	Geography (Educational)	0221	Religion And Theology
011420	Interpretation And Quran Sciences (Educational)	022101	Islamic Studies
011421	Islamic Culture (Educational)	022102	Islamic Culture
011422	The Holy Quran And Islamic Studies (Educational)	022103	The Holy Qur'An And Its Sciences
011423	Sciences Of Hadith (Educational)	022104	Prophetic Sunnah And Its Sciences
011424	Creed (Educational)	022105	Creed
011425	Islamic Law And Its Foundations (Educational)	022106	Da'wa
011426	English Language (Educational)	022107	Hesbah
011427	Arabic Language (Educational)	022108	Fundamentals Of Religion
011428	Psychology (Educational)	0222	History And Archaeology
0119	Other Programs In Education Not Elsewhere Classified	022201	Archaeology
011901	Preparation Of School Laboratories	022202	History
		0223	Philosophy And Ethics
		022301	Philosophy
02	Arts And Humanities	023	Languages
021	Arts	0231	Language Acquisition
0211	Audio-Visual Techniques And Media Production	023101	English (General)
021101	Radio, Television And Film	023102	English Language And Its Literature
		023103	English Language And Translation

023104 French Language And Translation
 023105 Turkish Language
 023106 Chinese Language
 023107 Hebrew Language
 023108 Persian Language
 023109 Japanese Language
 023110 Spanish Language
 023111 German Language
 023112 Russian Language
 023113 Linguistic Studies
 023114 Arabic Language For Non-Native Speakers
 023115 Translation
 023116 Applied Linguistics
0232 Literature And Linguistics
 023201 Arabic Morphology And Syntax
 023202 Literature, Criticism And Rhetoric
 023203 Arabic Language And Literature
 023204 Arabic Linguistics
 023205 Computational Linguistics
0239 Other Programs In Languages Not Elsewhere Classified
 023901 Italian Language
 023902 Bengali Language
 023903 Punjabi Language
 023904 Urdu Language
 023905 Pashtu Language

03 Social Sciences, Journalism And Information

031 Social And Behavioral Sciences
0311 Economics
 031101 Macroeconomics
 031102 Business Economics
 031103 Islamic Economics
 031104 International Economics
0312 Political Sciences And Civics
 031201 Political Sciences
 031202 Strategic Studies
 031203 Human Rights
0313 Psychology

031301 Psychology
 031302 Counseling Psychology
 031303 Clinical Psychology
 031304 Educational Psychology
 031305 School Psychology
 031306 Developmental Psychology
 031307 Personality And Social Psychology
 031308 Measurement And Evaluation
0314 Sociology And Cultural Studies
 031401 Sociology
 031402 Anthropology
 031403 Human Geography
 031404 Women's Studies
 031405 Criminology
032 Journalism And Information
0321 Journalism And Reporting
 032101 Media
 032102 Electronic Mass Media
0322 Library, Information And Archival Studies
 032201 Library And Information Sciences
 032202 Records Management And Electronic Keeping
 032203 Information Sources Management And Related Services

04 Business, Administration And Law

041 Business And Administration
0411 Accounting And Taxation
 041101 Accounting
 041102 Accounting Information Systems
0412 Finance, Banking And Insurance
 041201 Financial Management
 041202 Islamic Financial Management
 041203 Finance And Investment Management
 041204 Banking And Financial Markets Management
 041205 Risk Management And Insurance
0413 Management And Administration
 041301 Public Administration
 041302 Human Resources

041303 Business Management
 041304 Management Information System
 041305 Health Services Management
 041306 Health Information Management
 041307 Warehouse Management
 041308 Managing Of Hajj (Pilgrimage) And Umrah
 041309 International Business Management
 041310 Aviation Management
 041311 Project Management
 041312 Quality Management
 041313 Real Estate Management And Development
 041314 Supply Chain Management
 041315 Industrial Management
 041316 Food Services Management
 041317 Educational Leadership
 041318 Management And Supervision Of Special Education Institutions
 041319 Sports And Recreation Administration
 041320 Office Management
 041321 Organizing & Administrative Development
0414 Marketing And Advertising
 041401 Marketing
 041402 Advertising And Marketing Communications
 041403 E-Commerce
 041404 Public Relations
 041405 Customers Service
0415 Secretarial And Office Work
 041501 Executive Secretary
 041502 Medical Secretary
0416 Wholesale And Retail Sales
 041601 Sales Management
0417 Work Skills
 041701 Communication Skills
042 Law
0421 Law
 042101 Law
 042102 Public Law
 042103 Private Law
 042104 Criminal Law
 042105 Criminal Investigation
 042106 Commercial Law
 042107 International Law

042108 Judicial Studies
 042109 Shari'ah

05 Natural Sciences, Mathematics And Statistics

051 Biological And Related Sciences

0511 Biology

051101 Microbiology
 051102 General Biology
 051103 Arthropods And Parasites
 051104 Molecular And Cellular Biology
 051105 Botany
 051106 Zoology
 051107 Ornithology
 051108 Genetics
 051109 Immunology
 051110 Mycology

0512 Biochemistry

051201 Biochemistry
 051202 Toxicology
 051203 Pharmacology
 051204 Biotechnology
 051205 Viruses
 051206 Forensic Evidences

052 Environment

0521 Environmental Sciences

052101 Environmental Science
 052102 Environmental Health Sciences

0522 Natural Environments And Wildlife

052201 Environment Protection

053 Physical Sciences

0531 Chemistry

053101 Chemistry
 053102 Industrial Chemistry
 053103 Organic Chemistry
 053104 Analytical Chemistry
 053105 Physical Chemistry
 053106 Polymer Chemistry
 053107 Inorganic Chemistry

0532 Earth Sciences

- 053201 Geography
- 053202 Sciences And Management Of Water Resources Science
- 053203 Geographical Information Systems
- 053204 Geophysics
- 053205 Geology
- 053206 Meteorology
- 053207 Geomatics

0533 Physics

- 053301 Physics
- 053302 Nuclear Physics
- 053303 Condensed State Physics
- 053304 Chemical Physics
- 053305 Optics Physics
- 053306 Astronomy
- 053307 Nanoscience And Science
- 053308 Medical Physics

054 Mathematics And Statistics**0541 Mathematics**

- 054101 Mathematics
- 054102 Mathematical Operations Research

0542 Statistics

- 054201 Statistics
- 054202 Medical Statistics
- 054203 Actuarial Science
- 054204 Quantitative Methods
- 058801 Bioinformatics

06 Information And Communication Technologies (ICTs)**061 Information And Communication Technologies (ICTs)****0611 Computer Use**

- 061101 Desktop Applications And Computer Maintenance For The Hearing Impaired
- 061102 Office Applications For The Visually Impaired

0612 Database And Network Design And Administration

- 061201 Network Systems Administration
- 061202 Technical Support
- 061203 Information Security

0613 Software And Applications Development And Analysis

- 061301 Programming And Computer Sciences
- 061302 Software Engineering
- 061303 Information Technology
- 061304 Information Systems

0619 Other Programs In Information And Communication Technologies (ICTs) Not Elsewhere Classified

- 061901 Artificial Intelligence
- 061902 Data Sciences
- 068801 Health Informatics

07 Engineering, Manufacturing And Construction**071 Engineering And Engineering Trades****0711 Chemical Engineering And Processes**

- 071101 Chemical Engineering
- 071102 Chemical Engineering Technology
- 071103 Materials Engineering
- 071104 Material Engineering Technology
- 071105 Nuclear Engineering
- 071106 Nuclear Engineering Technology

0712 Environmental Protection Technology

- 071201 Environmental Engineering

0713 Electricity And Energy

- 071301 Electrical Engineering
- 071302 Energy Engineering
- 071303 Energy Engineering Technology
- 071304 Electrical Engineering Technology

0714 Electronics And Automation

- 071401 Electronic Engineering
- 071402 Electronics And Communication Engineering Technology
- 071403 Control & Instrumentation Systems Engineering
- 071404 Control And Automation Engineering Technology
- 071405 Computer Engineering
- 071406 Computer Engineering Technology
- 071407 Network Engineering
- 071408 Network Engineering Technology

0715 Mechanics And Metal Trades

- 071501 Mechanical Engineering

071502	Mechanical Engineering Technology	073108	Marine Surveying
0716	Motor Vehicles, Ships And Aircraft	0732	Building And Civil Engineering
071601	Aviation Engineering	073201	Civil Engineering
071602	Marine Engineering	073202	Civil Engineering Technology
071603	Marine Engineering Technology	073203	Structural Engineering
071604	Engines And Vehicles	073204	Structural Engineering Technology
071605	Vehicle Engineering Technology	073205	Geotechnical Engineering
719	Other Programs In Engineering And Engineering Trades Not Elsewhere Classified	073206	Water Resources Engineering
071901	Biomedical Engineering	073207	Transport Engineering
071902	Medical Devices Engineering Technology	073208	Transportation Engineering Technology
071903	Industrial & Systems Engineering	078	Inter-Disciplinary Programs And Qualifications Involving Engineering, Manufacturing And Construction
071904	Industrial Engineering Technology	0788	Inter-Disciplinary Programs And Qualifications Involving Engineering, Manufacturing And Construction
072	Manufacturing And Processing	078801	Engineering Management
0721	Food Processing	078802	Mechatronics Engineering
072101	Food Industry Engineering	078803	Cranes
072102	Nutrition And Food Science	08	Agriculture, Forestry, Fisheries And Veterinary
0722	Materials (Glass, Paper, Plastic And Wood)	081	Agriculture
072201	Plastic Manufacturing Technology	0811	Crop And Livestock Production
072202	Rubber Manufacturing Technology	081101	Arid Land Agriculture
072203	Paper Production And Packaging Technology	081102	Animal Production And Raising
072204	Glass Products Manufacturing	081103	Plant Production And Protection
072205	Ceramic Products Manufacturing	081104	Irrigation And Drainage Engineering
072206	Building Stone Manufacturing	081105	Agricultural Economics And Food Marketing
0723	Textiles (Clothes, Footwear And Leather)	0812	Horticulture
072301	Clothes And Fabric	081201	Horticulture And Crops
072302	Leather And Accessories Industries	0819	Other Programs In Agriculture Not Elsewhere Classified
0724	Mining And Extraction	081901	Agricultural Engineering
072401	Mining Engineering	082	Forestry
072402	Oil And Natural Gas Engineering	0821	Forestry
072403	Oil And Natural Gas Engineering Technology	082101	Rangelands And Forests
073	Architecture And Construction	083	Fisheries
0731	Architecture And Town Planning	0831	Fisheries
073101	Construction Management And Engineering		
073102	Architectural Engineering		
073103	Architectural Engineering Technology		
073104	Architecture		
073105	Urban And Regional Planning		
073106	Surveying Engineering		
073107	Surveying Engineering Technology		

083101 Fish Resources Science

084 Veterinary

0841 Veterinary

084101 Veterinary Medicine

084102 Veterinary Assistance

09 Health And Welfare

091 Health

0911 Dental Studies

091101 Conservative Dentistry

091102 Dental General Health

091103 Endodontic

091104 Forensic Dentistry

091105 General Dentistry

091106 Maxillofacial Surgery

091107 Oral And Maxillofacial Radiology

091108 Oral And Maxillofacial Diseases

091109 Oral Surgery

091110 Maxillofacial Orthodontics

091111 Periodontics Medicine

091112 Prosthetic Dentistry

091113 Dental Repairs

091114 General Advanced Dentistry

091115 Dental Anesthesia

091116 Family Dentistry

091117 Geriatric Dentistry

091118 Hospital Dentistry

091119 Oral And Facial Pain

091120 Stomatology

091121 Pediatric Dentistry

091122 Preventive Dentistry

091123 Dentistry For People With Special Needs

091124 Temporomandibular Joint Diseases

091125 Oral And Dental Health

091126 Dentist Assistant

091127 Dental Technology

0912 Medicine

091201 General Medicine Practice

091202 Pediatrics

091203 Neonatal Medicine

091204 Paediatric Neurology

091205 Internal Medicine

091206 Respiratory System Medicine

091207 Dermatology

091208 Rheumatology

091209 Neurology

091210 Family Medicine

091211 Nephrology

091212 Allergy And Immunology

091213 Psychiatry

091214 Preventive Medicine And Public Health

091215 Radiation Oncology

091216 Oncology

091217 Hematology

091218 Endocrinology

091219 Gastrointestinal Diseases

091220 Cardiovascular Medicine

091221 Medical Genetics

091222 Emergency Medicine

091223 Intensive Care Medicine

091224 Forensic Medicine

091225 General Surgery

091226 Ophthalmology

091227 Ear, Nose, Throat, Head And Neck Surgery

091228 Cardiac Surgery

091229 Cardiothoracic Surgery

091230 Vascular Surgery

091231 Neurosurgery

091232 Urology

091233 Pediatric Surgery

091234 Plastic Surgery

091235 Orthopaedic Surgery

091236 Colorectal Surgery

091237 Obstetrics And Gynecology

091238 Gastrointestinal Surgery

091239 Anesthesiology

091240 Public Health

091241 Basic Medical Sciences

0913 Nursing And Midwifery

091301 Midwifery

091302	Clinical Nursing	091413	Polysomnography
091303	Internal Medicine And Surgery Nursing	091414	Electrocardiography
091304	Diabetic Foot Care Nursing	091415	Cardiac Imaging
091305	Wound Care Nursing	091416	Echocardiography Technology
091306	Cardiovascular Care Nursing	091417	Lithotripsy
091307	Dialysis Nursing	091418	Clinical Pathology
091308	Critical Care Nursing For Adults	091419	Neuropathology
091309	Advanced Care Nursing	091420	Anatomical Pathology
091310	Pain Management Nursing	091421	Medical Microbiology
091311	Palliative Nursing, Oncology And Hematology Nursing	091422	Hematopathology
091312	Anesthesia Nursing	0915	Therapy And Rehabilitation
091313	Operations Nursing	091501	Therapeutic Nutrition
091314	Emergency Nursing	091502	Emergency Medical Services
091315	Neonatal Intensive Care Nursing	091503	Health Education
091316	Obstetrics And Gynecology Nursing	091504	Rehabilitation Medicine
091317	Paediatrics Nursing	091505	Occupational Therapy
091318	Paediatrics Critical Care Nursing	091506	Physical Therapy
091319	Geriatric Nursing	091507	Prostheses
091320	Mental Health Nursing	091508	Foot And Ankle Treatment
091321	Maternity And Childhood Nursing	091509	Respiratory Therapy
091322	Primary Care Nursing	091510	Optics
091323	Community Health Nursing /And Public Health Nursing	091511	Speech Therapy
091324	School Health Nursing	091512	Operating Rooms
091325	Nursing Research	0916	Pharmacy
091326	Nursing Education	091601	Pharmacy
091327	Forensic Nursing	091602	Pharmaceutical Sciences
091328	Quality In Nursing	091603	Pharmaceutical Care
0914	Medical Diagnostic And Treatment Technology	091604	Pharmaceutical Administration
091401	Anaesthesia Technology	0917	Traditional And Complementary Medicine And Therapy
091402	Cardiac Catheterization Technology	091701	Complementary And Alternative Medicine
091403	Cardiac Technology	0919	Other Programs In Health Not Elsewhere Classified
091404	Medical Laboratory	091901	Phlebotomy
091405	Nuclear Medicine	091902	Opticianry
091406	Radiology Technology	091903	Epidemiology
091407	Diagnostic Radiology	091904	Infection Control
091408	Therapeutic Radiology	091905	Preventive Health
091409	Ultrasound	091906	Dialysis
091410	Neurophysiology	091907	Medical Education
091411	Audiogram	091908	Medical Coding
091412	Neurogram		

091909 Medical Sterilization
 091910 Health Security
 091911 Health Promotion
092 Welfare
0921 Care Of The Elderly And Adults With Special Needs
 092101 Care For The Elderly
0922 Child Care And Youth Services
 092201 Family And Child Sciences
0923 Social Work And Counselling
 092301 Social Work

10 Services

101 Personal Services
1011 Domestic Services
 101101 Family Education
 101102 Housing And Family Institutions Management
1012 Hair And Beauty Services
 101201 Beauty
1013 Hotel, Restaurants And Catering
 101301 Hotel Management
 101302 Food And Beverage Services
 101303 Food Production (Cooking)
1014 Sports
 101401 Sport Science And Physical Activity
 101402 Sports Training
1015 Travel, Tourism And Leisure
 101501 Tourism Management
 101502 Heritage Resource Management
 101503 Tour Guide
 101504 Event Management And Organization
102 Hygiene And Occupational Health Services
1021 Community Sanitation
 102101 Environmental Technology
1022 Occupational Health And Safety
 102201 Occupational Safety And Health
103 Security Services
1031 Military And Defense

103101 Military Science
 103102 Air Sciences
 103103 Technical Air Sciences
 103104 Marine Science
1032 Protection Of Persons And Property
 103201 Security Sciences
 103202 Anti-Terrorism Strategy And Policy
 103203 Ideological Security
 103204 Industrial Security
 103205 Border Security
 103206 Civil Defense
104 Transport Services
1041 Transport Services
 104101 Nautical Sciences
 104102 Ports And Maritime Transport
 104103 Aviation Systems
 104104 Air Traffic Control
 104105 Operation And Flight Safety
 104106 Aviation
 104107 Driving The Trains
 104108 Station And Passenger Services

Appendix (2): index of educational specializations in alphabetical order

A

041101 Accounting
041102 Accounting Information Systems
054203 Actuarial Science
011314 Adult And Continuing Education
091309 Advanced Care Nursing
041402 Advertising And Marketing Communications
021104 Advertising Creative Design
081105 Agricultural Economics And Food Marketing
081901 Agricultural Engineering
103102 Air Sciences
104104 Air Traffic Control
091212 Allergy And Immunology
001128 Aluminum
091401 Anaesthesia Technology
053104 Analytical Chemistry
091420 Anatomical Pathology
091312 Anesthesia Nursing
091239 Anesthesiology
081102 Animal Production And Raising
031402 Anthropology
103202 Anti-Terrorism Strategy And Policy
011312 Applied Behavior Analysis
023116 Applied Linguistics
011427 Arabic Language (Educational)
023203 Arabic Language And Literature
023114 Arabic Language For Non-Native Speakers
023204 Arabic Linguistics
023201 Arabic Morphology And Syntax
022201 Archaeology
001138 Architectural Drawing
073102 Architectural Engineering
073103 Architectural Engineering Technology
001139 Architectural Observation
073104 Architecture
081101 Arid Land Agriculture
011418 Art Education

051103 Arthropods And Parasites
061901 Artificial Intelligence
021401 Artwork
053306 Astronomy
001108 Audio And Video Devices
091411 Audiogram
001131 Auto Tinsmithing
001113 Automatic Printing
104106 Aviation
071601 Aviation Engineering
041310 Aviation Management
104103 Aviation Systems

B

041204 Banking And Financial Markets Management
091241 Basic Medical Sciences
101201 Beauty
011302 Behavior Disorders And Autism
023902 Bengali Language
001114 Binding
051201 Biochemistry
058801 Bioinformatics
011411 Biology (Educational)
071901 Biomedical Engineering
051204 Biotechnology
103205 Border Security
051105 Botany
072206 Building Stone Manufacturing
031102 Business Economics
041303 Business Management

C

001123 Car Mechanics
001132 Car Painting And Polishing
091402 Cardiac Catheterization Technology

091415 Cardiac Imaging
 091228 Cardiac Surgery
 091403 Cardiac Technology
 091229 Cardiothoracic Surgery
 091306 Cardiovascular Care Nursing
 091220 Cardiovascular Medicine
 092101 Care For The Elderly
 072205 Ceramic Products Manufacturing
 071101 Chemical Engineering
 071102 Chemical Engineering Technology
 053304 Chemical Physics
 053101 Chemistry
 011415 Chemistry (Educational)
 023106 Chinese Language
 021501 Cinema And Theatre
 103206 Civil Defense
 073201 Civil Engineering
 073202 Civil Engineering Technology
 001137 Civil Observation
 091302 Clinical Nursing
 091418 Clinical Pathology
 031303 Clinical Psychology
 072301 Clothes And Fabric
 091236 Colorectal Surgery
 042106 Commercial Law
 041701 Communication Skills
 091323 Community Health Nursing /And Public Health Nursing
 091701 Complementary And Alternative Medicine
 023205 Computational Linguistics
 071405 Computer Engineering
 071406 Computer Engineering Technology
 001122 Computer Maintenance And Extension Of Computer Network Cables
 011416 Computer Science (Educational)
 053303 Condensed State Physics
 091101 Conservative Dentistry
 073101 Construction Management And Engineering
 071403 Control & Instrumentation Systems Engineering
 071404 Control And Automation Engineering Technology
 001124 Cooling And Air Conditioning
 031302 Counseling Psychology
 078803 Cranes

022105 Creed
 011424 Creed (Educational)
 042105 Criminal Investigation
 042104 Criminal Law
 031405 Criminology
 091308 Critical Care Nursing For Adults
 011104 Curricula And Teaching Methods
 041405 Customers Service

D

061902 Data Sciences
 022106 Da'wa
 091115 Dental Anesthesia
 091102 Dental General Health
 091113 Dental Repairs
 091127 Dental Technology
 091126 Dentist Assistant
 091123 Dentistry For People With Special Needs
 091207 Dermatology
 001111 Design And Printing Layout
 061101 Desktop Applications And Computer Maintenance For The Hearing Impaired
 031306 Developmental Psychology
 091304 Diabetic Foot Care Nursing
 091407 Diagnostic Radiology
 091906 Dialysis
 091307 Dialysis Nursing
 021106 Digital And Visual Production
 021301 Drawing And Arts
 104107 Driving The Trains

E

091227 Ear, Nose, Throat, Head And Neck Surgery
 011201 Early Childhood
 001102 Early Childhood Education (Kindergarten)
 001101 Early Childhood Education (Nursery)
 011307 Early Intervention

091416 Echocardiography Technology
 041403 E-Commerce
 041317 Educational Leadership
 011103 Educational Measurement And Evaluation
 031304 Educational Psychology
 011105 Educational Technologies
 001120 Electric Elevators
 071301 Electrical Engineering
 071304 Electrical Engineering Technology
 091414 Electrocardiography
 071401 Electronic Engineering
 032102 Electronic Mass Media
 001121 Electronics
 071402 Electronics And Communication Engineering Technology
 091502 Emergency Medical Services
 091222 Emergency Medicine
 091314 Emergency Nursing
 011303 Emotional And Behavioral Disorders
 091218 Endocrinology
 091103 Endodontic
 071302 Energy Engineering
 071303 Energy Engineering Technology
 078801 Engineering Management
 071604 Engines And Vehicles
 023101 English (General)
 011426 English Language (Educational)
 023102 English Language And Its Literature
 023103 English Language And Translation
 021302 Engraving, Sculpture And Decoration
 052201 Environment Protection
 071201 Environmental Engineering
 052102 Environmental Health Sciences
 052101 Environmental Science
 102101 Environmental Technology
 091903 Epidemiology
 101504 Event Management And Organization
 041501 Executive Secretary

F

092201 Family And Child Sciences
 091116 Family Dentistry
 101101 Family Education
 091210 Family Medicine
 021204 Fashion Design & Textile
 041203 Finance And Investment Management
 041201 Financial Management
 083101 Fish Resources Science
 101302 Food And Beverage Services
 072101 Food Industry Engineering
 101303 Food Production (Cooking)
 041316 Food Services Management
 091508 Foot And Ankle Treatment
 091104 Forensic Dentistry
 051206 Forensic Evidences
 091224 Forensic Medicine
 091327 Forensic Nursing
 023104 French Language And Translation
 011102 Fundamentals Of Education
 022108 Fundamentals Of Religion

G

091219 Gastrointestinal Diseases
 091238 Gastrointestinal Surgery
 091114 General Advanced Dentistry
 051102 General Biology
 001129 General Carpentry
 091105 General Dentistry
 091201 General Medicine Practice
 091225 General Surgery
 051108 Genetics
 053203 Geographical Information Systems
 053201 Geography
 011419 Geography (Educational)
 053205 Geology
 053207 Geomatics

053204 Geophysics
073205 Geotechnical Engineering
091117 Geriatric Dentistry
091319 Geriatric Nursing
023111 German Language
072204 Glass Products Manufacturing
021102 Graphic Design And Digital Media

H

001130 Haircutting
091503 Health Education
068801 Health Informatics
041306 Health Information Management
091911 Health Promotion
091910 Health Security
041305 Health Services Management
011305 Hearing Impairment
001140 Heavy Equipment
023107 Hebrew Language
091217 Hematology
091422 Hematopathology
101502 Heritage Resource Management
022107 Hesbah
022202 History
011417 History And Civilization (Educational)
021205 History Of Clothing And Embroidery
011404 Home Economics (Educational)
081201 Horticulture And Crops
091118 Hospital Dentistry
101301 Hotel Management
101102 Housing And Family Institutions Management
031403 Human Geography
041302 Human Resources
031203 Human Rights

I

103203 Ideological Security

051109 Immunology
071903 Industrial & Systems Engineering
053102 Industrial Chemistry
001119 Industrial Electricity
071904 Industrial Engineering Technology
041315 Industrial Management
103204 Industrial Security
091904 Infection Control
061203 Information Security
032203 Information Sources Management And Related Services
061304 Information Systems
061303 Information Technology
053107 Inorganic Chemistry
091223 Intensive Care Medicine
021201 Interior Design
001104 Intermediate Education (General)
001105 Intermediate Education (Vocational)
091205 Internal Medicine
091303 Internal Medicine And Surgery Nursing
041309 International Business Management
031104 International Economics
042107 International Law
011420 Interpretation And Quran Sciences (Educational)
081104 Irrigation And Drainage Engineering
022102 Islamic Culture
011421 Islamic Culture (Educational)
031103 Islamic Economics
011101 Islamic Education
041202 Islamic Financial Management
011425 Islamic Law And Its Foundations (Educational)
022101 Islamic Studies
023901 Italian Language

J

023109 Japanese Language
021203 Jewelry Design
042108 Judicial Studies

L

011301	Language And Communication Disorders
042101	Law
011309	Learning Difficulties
011106	Learning Resources
072302	Leather And Accessories Industries
032201	Library And Information Sciences
023113	Linguistic Studies
002101	Literacy And Numeracy
023202	Literature, Criticism And Rhetoric
091417	Lithotripsy

M

031101	Macroeconomics
041318	Management And Supervision Of Special Education Institutions
041304	Management Information System
041308	Managing Of Hajj (Pilgrimage) And Umrah
071602	Marine Engineering
071603	Marine Engineering Technology
103104	Marine Science
073108	Marine Surveying
041401	Marketing
071104	Material Engineering Technology
071103	Materials Engineering
091321	Maternity And Childhood Nursing
054102	Mathematical Operations Research
054101	Mathematics
011412	Mathematics (Educational)
091110	Maxillofacial Orthodontics
091106	Maxillofacial Surgery
031308	Measurement And Evaluation
071501	Mechanical Engineering
071502	Mechanical Engineering Technology
078802	Mechatronics Engineering
032101	Media
091908	Medical Coding
071902	Medical Devices Engineering Technology

091907	Medical Education
091221	Medical Genetics
091404	Medical Laboratory
091421	Medical Microbiology
053308	Medical Physics
041502	Medical Secretary
054202	Medical Statistics
091909	Medical Sterilization
001134	Men's Sewing
011310	Mental Excellence And Innovation
091320	Mental Health Nursing
011306	Mental Retardation
001125	Metal Plates
053206	Meteorology
051101	Microbiology
091301	Midwifery
103101	Military Science
072401	Mining Engineering
001126	Mobile Devices Maintenance
051104	Molecular And Cellular Biology
011311	Multi Impairments
021502	Music
021103	Music Production
051110	Mycology

N

053307	Nanoscience And Science
104101	Nautical Sciences
091315	Neonatal Intensive Care Nursing
091203	Neonatal Medicine
091211	Nephrology
071407	Network Engineering
071408	Network Engineering Technology
061201	Network Systems Administration
091412	Neurogram
091209	Neurology
091419	Neuropathology
091410	Neurophysiology
091231	Neurosurgery

071105 Nuclear Engineering
 071106 Nuclear Engineering Technology
 091405 Nuclear Medicine
 053302 Nuclear Physics
 091326 Nursing Education
 091325 Nursing Research
 072102 Nutrition And Food Science

O

091237 Obstetrics And Gynecology
 091316 Obstetrics And Gynecology Nursing
 021502 Occupational Health And Safety
 102201 Occupational Safety And Health
 091505 Occupational Therapy
 061102 Office Applications For The Visually Impaired
 001115 Office Devices And Machines
 041320 Office Management
 001112 Offset Printing
 072402 Oil And Natural Gas Engineering
 072403 Oil And Natural Gas Engineering Technology
 091216 Oncology
 001116 Operating Computer Numerical Control (Cnc) Machines
 001117 Operating Production Machines
 091512 Operating Rooms
 104105 Operation And Flight Safety
 091313 Operations Nursing
 091226 Ophthalmology
 091902 Opticianry
 091510 Optics
 053305 Optics Physics
 091125 Oral And Dental Health
 091119 Oral And Facial Pain
 091108 Oral And Maxillofacial Diseases
 091107 Oral And Maxillofacial Radiology
 091109 Oral Surgery
 053103 Organic Chemistry
 041321 Organizing & Administrative Development
 051107 Ornithology
 091235 Orthopaedic Surgery

P

091204 Paediatric Neurology
 091318 Paediatrics Critical Care Nursing
 091317 Paediatrics Nursing
 091310 Pain Management Nursing
 091311 Palliative Nursing, Oncology And Hematology Nursing
 072203 Paper Production And Packaging Technology
 023905 Pashtu Language
 091121 Pediatric Dentistry
 091233 Pediatric Surgery
 091202 Pediatrics
 091111 Periodontics Medicine
 023108 Persian Language
 003101 Personal Skills
 031307 Personality And Social Psychology
 091604 Pharmaceutical Administration
 091603 Pharmaceutical Care
 091602 Pharmaceutical Sciences
 051203 Pharmacology
 091601 Pharmacy
 022301 Philosophy
 091901 Phlebotomy
 001110 Photographic Photography
 001109 Photography
 021105 Photography.
 053105 Physical Chemistry
 011406 Physical Education
 091506 Physical Therapy
 053301 Physics
 011414 Physics (Educational)
 081103 Plant Production And Protection
 072201 Plastic Manufacturing Technology
 091234 Plastic Surgery
 031201 Political Sciences
 053106 Polymer Chemistry
 091413 Polysomnography
 104102 Ports And Maritime Transport
 011901 Preparation Of School Laboratories
 091122 Preventive Dentistry

091905 Preventive Health
 091214 Preventive Medicine And Public Health
 091322 Primary Care Nursing
 001103 Primary Education
 011313 Primary Education
 011410 Primary Education (Arabic Language)
 011401 Primary Education (Early Grades)
 011407 Primary Education (Islamic Studies)
 011408 Primary Education (Mathematics)
 011409 Primary Education (Science)
 011402 Primary Education (Upper Grades)
 021107 Printing And Wrapping
 042103 Private Law
 021202 Product Design
 061301 Programming And Computer Sciences
 041311 Project Management
 022104 Prophetic Sunnah And Its Sciences
 091507 Prostheses
 091112 Prosthetic Dentistry
 091213 Psychiatry
 031301 Psychology
 011428 Psychology (Educational)
 041301 Public Administration
 091240 Public Health
 042102 Public Law
 041404 Public Relations
 023903 Punjabi Language

Q

091328 Quality In Nursing
 041312 Quality Management
 054204 Quantitative Methods

R

091215 Radiation Oncology
 021101 Radio, Television And Film
 091406 Radiology Technology

082101 Rangelands And Forests
 041313 Real Estate Management And Development
 032202 Records Management And Electronic Keeping
 091504 Rehabilitation Medicine
 091206 Respiratory System Medicine
 091509 Respiratory Therapy
 091208 Rheumatology
 041205 Risk Management And Insurance
 072202 Rubber Manufacturing Technology
 023112 Russian Language

S

041601 Sales Management
 001135 Sanitary Supplies
 011405 School Activities
 091324 School Health Nursing
 031305 School Psychology
 011413 Science (Educational)
 053202 Sciences And Management Of Water Resources Science
 011423 Sciences Of Hadith (Educational)
 001106 Secondary Education (General)
 001107 Secondary Education (Vocational)
 103201 Security Sciences
 042109 Shari'ah
 011403 Social Sciences (Educational)
 092301 Social Work
 031401 Sociology
 061302 Software Engineering
 023110 Spanish Language
 011308 Special Education
 091511 Speech Therapy
 101401 Sport Science And Physical Activity
 041319 Sports And Recreation Administration
 101402 Sports Training
 104108 Station And Passenger Services
 054201 Statistics
 091120 Stomatology
 031202 Strategic Studies
 001118 Structural Electricity

073203 Structural Engineering
073204 Structural Engineering Technology
041314 Supply Chain Management
001136 Surveying
073106 Surveying Engineering
073107 Surveying Engineering Technology

T

021402 Tailoring & Dressmaking
103103 Technical Air Sciences
061202 Technical Support
091124 Temporomandibular Joint Diseases
011422 The Holy Quran And Islamic Studies (Educational)
022103 The Holy Qur'An And Its Sciences
091501 Therapeutic Nutrition
091408 Therapeutic Radiology
101503 Tour Guide
101501 Tourism Management
051202 Toxicology
023115 Translation
073207 Transport Engineering
001133 Transport Vehicles
073208 Transportation Engineering Technology
023105 Turkish Language

U

091409 Ultrasound
073105 Urban And Regional Planning
023904 Urdu Language
091232 Urology

V

091230 Vascular Surgery
071605 Vehicle Engineering Technology
084102 Veterinary Assistance
084101 Veterinary Medicine

051205 Viruses
011304 Visual Impairment

W

041307 Warehouse Management
073206 Water Resources Engineering
001127 Welding
031404 Women's Studies
091305 Wound Care Nursing

Z

051106 Zoology



وزارة التعليم
Ministry of Education

