هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

2023
TP-150
L6

Consistency with National Qualifications Framework
(Level 6 - Bachelor's Degree or Equivalent).

Institution: **Imam Mohammad Ibn Saud Islamic University**
College/Institute: **Science**
Qualification awarded (according to Graduation Certificate): **Bachelor of Science in Applied Mathematics**

The NQF-KSA constitutes a comprehensive and uniform structure for building, organizing, and categorizing qualifications into levels based on learning outcomes. Furthermore, it is a functional tool to bridge recognized national or international qualifications; (Educational and Training), with the levels of the National Qualifications Framework in Saudi Arabia.
For further information, refer to the (National Qualifications Framework).

A. Qualification Details:

Institution:	**Imam Mohammad Ibn Saud Islamic University**	
College/Institute:	**Science**	
Program Qualification (according to the Graduation Certificate)	**Bachelor of Science in Applied Mathematics**	
Qualification Name	☒ **Bachelor's degree** ☐ Higher Diploma ☐ Professional Master ☐ Applied Master	☐ Equivalent: (specify)
Area of specialization (According to Saudi Standard Classification of Educational Levels and Specializations)	**Natural Science, Mathematics, and Statistics**	
Qualification Type	☒ **Academic** ☐ Applied ☐ Vocational ☐ Technical	
Qualifications Types by Dominoes:	☒ **Primary Qualification** ☐ Additional Qualification	
Major track/pathway (if any)	**1**	

(*) "Or equivalent" means qualifications that are equivalent to qualifications in terms of **level**, may have the same name, but their type varies (academic - research - professional - applied technology) or have another name, but they meet the requirements of the **level**.

B. Early Exit Points for Educational and Training Programs:

Intermediate Exit Point	☒ **Available**	☐ Unavailable
Description of the Early Exit Point in the Program	**87 credit hours awarded from the main program**	
The Level of the Awarded Qualification	**Level Five**	
Qualification Awarded at the Exit Point (According to Graduation Certificate)	**Diploma of Science in Mathematics**	

Early Exit Points :*Qualifications that mediate long-term educational or training programs, obtained by the learner or trainee from an awarding body if he or she achieves the target learning outcomes and the qualification placements required for a specific level. This awarded qualification does not correspond to the program's initial qualification it offers.*

C. General Requirements for Qualification Placement

1. Official Approval		
The awarding institution granted official approval from the relevant education or training authority.	☒ **Applicable**	☐ Not applicable
Program Approval		

2. Stakeholder Engagement		
The qualified programs are designed and reviewed with the participation of Stakeholders, employers, and field experts.	☒ **Applicable**	☐ Not applicable

3. Qualification Objectives

G1. Exhibit positive attitudes and national and institutional values toward applied mathematics, to contribute to an increasingly dynamic society.
G2. Think critically, master problem-solving skills and communicate clearly applied mathematics concepts and their impact to solve real-life problems.
G3. Maintain the essence of mathematical knowledge in line with technological changes to provide a solid foundation for lifelong learning in the future.
G4. Have an appropriate package of professional skills to ensure a productive career that uses mathematics.
G5. Develop the creative potential of the students through research.

4. Qualification Title	**Bachelor of Science in Applied Mathematics**

5. Qualification Components:

Item	Requirements according to NQF	Program	Level of Compliance (to be completed by NCAAA Consultant)
Minimum credit hours (units) required	- Completion of a minimum of (120) credit hours (units) for Bachelor's qualification or equivalent. -Completion of a minimum of (24) credit hours (units) including advanced courses on a specific academic or vocational specialty after a Bachelor's Degree	**174 credit hours**	☒ **The program meets the minimum of credit hours required.**
Program duration (Minimum number of years)	- The study duration to obtain the qualification is usually four years or a minimum of three (3) years for Bachelor or equivalent. - The study duration to obtain the qualification is one full-time year or equivalent.	**4 years**	☒ **The program meets the minimum duration required in years.**

Minimum Actual (contact) hours	1800 contact hours for Bachelor's degree. 24 contact hours for Higher Diploma, Professional Master and Applied Master.	2472 contact hours	☒ The program meets the minimum actual (contact) hours required.
Enrollment conditions (According to NQF)	- Obtaining a Secondary education qualification or equivalent. - Obtain a bachelor's degree or equivalent.	Same conditions plus General Aptitude Test (GAT) and Academic Achievement Test	☒ The Program meets the minimum requirements for students' enrolment at level 4 qualification.

6. Learning Outcomes Assessment:

1. Learning Outcomes

Code	Program Learning Outcomes (PLOs)	NQF Level Descriptors of Learning Outcomes – Level 6
1	Knowledge and understanding	
1.1	Understand the fundamentals of Mathematics as a rigorous living discipline in its own right.	• Broad in-depth integrated body of knowledge and comprehension of the underlying theories, principles, and concepts in one or more disciplines or field of work. • In-depth knowledge and comprehension of processes, materials, techniques, practices, conventions, and/or terminology.
1.2	Describe and outline the development of the application of Mathematics as a language in a wide range of situations relevant to research and industry.	• A broad range of specialized knowledge and understanding informed by current developments of a discipline, profession, or field of work. • Knowledge and comprehension of research and inquiry methodologies.
2	Skills	
2.1	Develop critical abilities of an analytical, creative and problem-solving nature.	• Solve problems in various complex contexts in one or more disciplines or fields of work. • Use critical thinking and develop creative solutions to current issues and problems, in various complex contexts, in a discipline, profession or field of work. • Conduct inquiries, investigations, and research for complex issues and problems.
2.2	Design mathematical models of real-life problems.	• Apply integrated theories, principles, and concepts in various contexts, related to a discipline, profession, or field of work . • Use and adapt advanced processes, techniques, tools, instruments, and/or materials in dealing with various complex practical activities. • Carry out various complex practical tasks and procedures related to a discipline, professional practice, or field of work.
2.3	Develop critical skills with regard to literature searching, appraising and evaluating from a variety of sources and synthesizing the results.	Use mathematical operations and quantitative methods to process data and information in various complex contexts, related to a discipline or field of work.
2.4	Communicate mathematical ideas orally and in writing, with precision and clarity.	Communicate effectively to demonstrate theoretical knowledge comprehension and

Code	Program Learning Outcomes (PLOs)	NQF Level Descriptors of Learning Outcomes – Level 6
		specialized transfer of knowledge, skills, and complex ideas to a variety of audiences.
2.5	Make efficient use of computer technology and software in solving mathematical problems.	• Use mathematical operations and quantitative methods to process data and information in various complex contexts, related to a discipline or field of work , • Select, use, and adapt various standard and specialized digital technological and ICT tools and applications to process and analyze data and information to support and enhance research and/or projects.
3	Values, Autonomy and Responsibility	
3.1	Demonstrate integrity, professional and academic ethics, participation in finding constructive solutions to some societal issues, and a commitment to responsible citizenship.	Demonstrate commitment to professional and academic values, standards, and ethical codes of conduct, and represent responsible citizenship and coexistence with others.
3.2	Self-evaluate of the level of learning and performance, insist on achievement and excellence, and make logical decisions supported by evidence and arguments independently.	• Effectively plan for and achieve academic and/or professional self-development, assess own learning and performance, and autonomously make decisions regarding self-development and/or tasks based on convincing evidences. • Autonomously and professionally manage tasks and activities related to the discipline and/or work
3.3	Lead teamwork with functional flexibility and effectiveness, and take responsibility for professional development, participating in developing the group's performance, and enhancing the quality of life.	• Collaborate responsibly and constructively on leading diverse teams to perform a wide range of tasks while playing a major role in planning and evaluating joint work. • Actively participate in advancing the discipline and society.

2. Learning Outcomes Assessment		
Transparent and measurable evaluation criteria are implemented to ensure that Learning Outcomes have been achieved in the academic/training programs.	☒Available	☐Unavailable
Learning Outcomes Assessment Plan		