

Professional Development Program

Program Title

Mathematical Pioneers: From the Classroom to Professional Excellence

This program is aimed at undergraduate female students in mathematics and statistics at Imam Mohammad Ibn Saud Islamic University.

N o.	Lecture Title	Date	Duration	Speaker	Position	Institution
1	Professional Fields Available for Mathematics Graduates	Wednesday 21-05-2025	2 hours	Dr. Hanaa Al-Hamrani	Director of Program Analysis and Planning	National Institute for Professional Educational Development
2	Professional Certifications	Monday 08-09-2025	2 hours	Dr. Hessa Al-Qahtani	Associate Professor	King Abdulaziz University – Rabigh
3	LinkedIn and Professional Marketing	Wednesday 11-12-2025	2 hours	Dr. Eman Al-Nuwayşir	Assistant Professor	Shaqra University

Guest Lecture Template – Undergraduate/Graduate Program

item	Required Information
Program	BSc Applied Mathematics
Academic Year	2025-2026
Semester	Fall
Date of Lecture	11/12/2025
Lecture Title	LinkedIn and Professional Marketing
Guest Speaker Name	Dr. Eman Al-Nuwaysir
Position and Affiliation	Assistant Professor - Shaqra University
Lecture Overview / Abstract	How to use LinkedIn platform to promote yourself for best jobs.
Coordinating Faculty Member	Dr. May Al-Hamrani
Target Audience	all undergraduates
Delivery Format	Online
Venue / Platform	Zoom
Learning Outcomes Addressed	<ul style="list-style-type: none">- K2: Describe and outline the development of the application of Mathematics as a language in a wide range of situations relevant to research and industry.- S4: Make efficient use of computer technology and software in solving mathematical problems.- V1: Evaluate and apply ethical considerations in mathematical decision-making and research, ensuring that their work adheres to professional standards and contributes positively to society.

Post-Lecture Documentation Checklist

Documentation Item	Submission Status
Speaker invitation and confirmation emails	[]
Event agenda and promotional materials	[]
Attendance sheet	[]
Feedback forms from participants	[]
Certificate of appreciation (copy)	[]
Event photos or recordings (if applicable)	[]

Signature:

Head of department name and date:

Dr.Ibtisam Aldawish 19-6-2025



Guest Lecture Template – Undergraduate/Graduate Program

item	Required Information
Program	BSc Physics / MSc Physics]
Academic Year	2025-2026
Semester	Fall
Date of Lecture	25/09/2025
Lecture Title	Magnetic Properties of Cobaltferrite nanoparticles
Guest Speaker Name	Prof. Marzook Alshammari
Position and Affiliation	Senior Researcher at KACST
Lecture Overview / Abstract	The study of magnetic properties of cobalt ferrite nanoparticles holds strong educational value for both BSc and MSc Physics programs. For BSc students, it introduces fundamental concepts in magnetism, crystallography, and materials science, helping them understand how magnetic behavior emerges from atomic-scale interactions. For MSc students, the topic provides a more advanced framework to explore superparamagnetism, anisotropy, magnetic hysteresis, and their dependence on synthesis methods and nanostructure.
Coordinating Faculty Member	Prof. Mohamed Lemine
Target Audience	4rd-year students, postgraduate students Faculty members
Delivery Format	[In-person / Online / Hybrid]
Venue / Platform	Building 313A/ Room 3-033A
Learning Outcomes Addressed	<ul style="list-style-type: none"> - K2: Outline a knowledge and specialized understanding of processes, tools, methods, and practices based on recent developments in physics. - S2: Practice statistical methods and analysis in investigating different issues and case study research. - S5: Choose and use a variety of digital technology, information, communication technology tools, to process, analyze and produce data and information; to support and promote specialized research and projects.

item	Required Information
Program	BSc Physics / MSc Physics]
Academic Year	2025-2026
Semester	Fall
Date of Lecture	27/11/2025
Lecture Title	Introduction to the international measurement system for ionizing radiation
Guest Speaker Name	Prof. Mehenna Achour Said ARIB
Position and Affiliation	Senior Health Physicist at KFSHRC
Lecture Overview / Abstract	This topic bridges theoretical knowledge with critical real-world applications in science and industry. For BSc students, it provides essential exposure to the principles of radiation physics, units of measurement (such as Gray, Sievert, and Becquerel), and the significance of standardization in scientific practice. For MSc students, it deepens understanding of radiation dosimetry, calibration protocols, and international metrology standards, which are crucial in fields like medical physics, nuclear energy, radiation protection, and environmental monitoring.
Coordinating Faculty Member	Prof Kamal Berrada
Target Audience	4rd-year students, postgraduate students Faculty memmbers
Delivery Format	[In-person / Online / Hybrid]
Venue / Platform	Building 313A/ Room 3-033A
Learning Outcomes Addressed	<ul style="list-style-type: none"> - K2: Outline a knowledge and specialized understanding of processes, tools, methods, and practices based on recent developments in physics. - S2: Practice statistical methods and analysis in investigating different issues and case study research. - S5: Choose and use a variety of digital technology, information, communication technology tools, to process, analyze and produce data and information; to support and promote specialized research and projects.

item	Required Information
Program	BSc Physics / MSc Physics]
Academic Year	2025-2026
Semester	Spring
Date of Lecture	20/01/2026
Lecture Title	The KFSHRC Secondary Standards Dosimetry Laboratory and its contribution to practical training and supervising students
Guest Speaker Name	Prof Mehenna Achour Said ARIB
Position and Affiliation	Senior Health Physicist at KFSHRC
Lecture Overview / Abstract	The KFSHRC Secondary Standards Dosimetry Laboratory (SSDL) plays a vital role in advancing practical education and research in medical and radiation physics. As a nationally recognized facility for ionizing radiation measurement and calibration, the SSDL provides students—particularly those enrolled in BSc and MSc Physics programs—with unique hands-on training in dosimetry techniques and instrumentation. The laboratory actively contributes to capacity building by supervising student projects, offering internships, and supporting thesis research, thereby bridging the gap between theoretical knowledge and applied radiological science.
Coordinating Faculty Member	Prof Kamal Berrada
Target Audience	4rd-year students, Postgraduate students Faculty memmbers
Delivery Format	[In-person / Online / Hybrid]
Venue / Platform	Building 313A/ Room 3-033A
Learning Outcomes Addressed	- K2: Outline a knowledge and specialized understanding of processes, tools, methods, and practices based on recent developments in physics. - S2: Practice statistical methods and analysis

	<p>in investigating different issues and case study research.</p> <p>- S5: Choose and use a variety of digital technology, information, communication technology tools, to process, analyze and produce data and information; to support and promote specialized research and projects. _____</p>
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Event photos or recordings (if applicable)	[]

Signature:



Head of department name and date

Ahmed M. Alkaoud

19/06/2025

Guest Lecture Template – Undergraduate/Graduate Program

item	Required Information
Program	BSc Chemistry
Academic Year	2025–2026
Semester	First semester 2025/2026
Date of Lecture	3 / 11 /2025
Lecture Title	Manufacturing quality
Guest Speaker Name	Fawaz bin Abdullah Al-Otaibi
Position and Affiliation	General Authority for Food and Drug- Riyadh
Lecture Overview / Abstract	Highlight the positives that can boost students' morale and motivate them to work in the private sector in general and in the field of manufacturing quality in particular.
Coordinating Faculty Member	Prof. Dr. Noufel Benhamadi
Target Audience	3rd-year students, all undergraduates, graduates, and postgraduate students
Delivery Format	In-person
Venue / Platform	Room SR-78A, Building 313A, Zoom for female section
Learning Outcomes Addressed	<p>K1: Recall the fundamentals and application of all topics of chemistry and their relevant.</p> <p>K4: Recognize personal safety and the environment emergency responses and outline the routes of exposure to hazards to minimize and control them at the personal and societal level.</p> <p>S3: Reorganize a well -developed skills for analysis and evaluation of the complex scientific problem.</p>

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Signature:



Head of department: **Dr. Faisal Algethami**

Date: **12/ 5/ 2025**

Guest Lecture Template – Undergraduate/Graduate Program

item	Required Information
Program	BSc Chemistry
Academic Year	2025–2026
Semester	Second semester 2025/2026
Date of Lecture	25 / 2 /2026
Lecture Title	Food and pharmaceutical industries and manufacturing: a new challenge
Guest Speaker Name	Fawaz bin Abdullah Al-Otaibi
Position and Affiliation	General Authority for Food and Drug- Riyadh
Lecture Overview / Abstract	Highlights on their importance to the KSA 2030 Vision. Required skills to take a role in the Saudi food and pharmaceutical industries. Boost students' morale and motivate them to work in the private sector in general and in the field of manufacturing quality
Coordinating Faculty Member	Prof. Dr. Noufel Benhamadi
Target Audience	3rd-year students, all undergraduates, graduates, and postgraduate students
Delivery Format	In-person
Venue / Platform	Room SR-78A, Building 313A, Zoom for female section
Learning Outcomes Addressed	K1: Recall the fundamentals and application of all topics of chemistry and their relevant. K4: Recognize personal safety and the environment emergency responses and outline the routes of exposure to hazards to minimize and control them at the personal and societal level. S3: Reorganize a well -developed skills for analysis and evaluation of the complex scientific problem.

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Event agenda and promotional materials	[]
Attendance sheet	[]
Feedback forms from participants	[]
Certificate of appreciation (copy)	[]
Event photos or recordings (if applicable)	[]

Signature:



Head of department: **Dr. Faisal Algethami**

Date: **12/ 5/ 2025**

Guest Lecture Template – Undergraduate/Graduate Program

item	Required Information
Program	BSc Chemistry
Academic Year	2025–2026
Semester	First semester 2025/2026
Date of Lecture	22 / 10 /2025
Lecture Title	Food quality and safety
Guest Speaker Name	Mr. Yasser Saad Al-Dosari
Position and Affiliation	Analyst - IDAC Myrio Nutrisciences Company - Riyadh
Lecture Overview / Abstract	Food safety and quality are guaranteed across the food supply chain using a variety of specialized tests used in food analysis and quality monitoring. These tests fall into several general categories, including molecular and environmental monitoring, as well as microbiological, chemical, physical, and sensory assessments.
Coordinating Faculty Member	Prof. Dr. Noufel Benhamadi
Target Audience	3rd-year students, all undergraduates, graduates, and postgraduate students
Delivery Format	In-person
Venue / Platform	Room SR-78A, Building 313A, Zoom for female section
Learning Outcomes Addressed	<p>K1: Recall the fundamentals and application of all topics of chemistry and their relevant.</p> <p>K4: Recognize personal safety and the environment emergency responses and outline the routes of exposure to hazards to minimize and control them at the personal and societal level.</p> <p>S3: Reorganize a well -developed skills for analysis and evaluation of the complex scientific problem.</p>

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Head of department: **Dr. Faisal Algethami**


Date: **12/ 5/ 2025**

Guest Lecture Template – Undergraduate/Graduate Program

item	Required Information
Program	BSc Chemistry
Academic Year	2025–2026
Semester	Second semester 2025/2026
Date of Lecture	6 / 4 /2026
Lecture Title	Research development and Food quality
Guest Speaker Name	Mr. Yasser Saad Al-Dosari
Position and Affiliation	Analyst - IDAC Myrio Nutrisciences Company - Riyadh
Lecture Overview / Abstract	<p>The rapid advancements in digital technologies and other cutting-edge technological advancements are contributing to the rapid growth of food quality and the Fourth Industrial Revolution.</p> <p>Encourage the audience, which consists of undergraduates and graduates, to improve their digital technology, logical scientific thinking, and communication abilities. KSA food quality system examples</p>
Coordinating Faculty Member	Prof. Dr. Noufel Benhamadi
Target Audience	3rd-year students, all undergraduates, graduates, and postgraduate students
Delivery Format	In-person
Venue / Platform	Room SR-78A, Building 313A, Zoom for female section
Learning Outcomes Addressed	<p>K2: List principals of different instruments and their functionality and applications</p> <p>K3: Identify and elucidate chemical compounds in terms of structures, reactivity and applications.</p> <p>K4: Recognize personal safety and the environment emergency responses and outline the routes of exposure to hazards to minimize and control them at the personal and societal level.</p> <p>S4: Demonstrate effectively on advanced techniques and chemistry experiments for developing and solving solutions to complex problems related to a professional target. And applying all fundamental principles for the complex field tasks.</p>

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Head of department: **Dr. Faisal Algethami**

Date: **12/ 5/ 2025**

Guest Lecture Template – Undergraduate/Graduate Program

item	Required Information
Program	BSc Applied Mathematics
Academic Year	2024-2025
Semester	Spring
Date of Lecture	21/05/2025
Lecture Title	Professional Fields Available for Mathematics Graduates
Guest Speaker Name	Dr. Hanaa Al-Hamrani
Position and Affiliation	Director of Program Analysis and Planning - National Institute for Professional Educational Development
Lecture Overview / Abstract	Needed skills and training for undergraduate Mathematics students to get advanced jobs
Coordinating Faculty Member	Dr. May Al-Hamrani
Target Audience	all undergraduates
Delivery Format	Online
Venue / Platform	Zoom
Learning Outcomes Addressed	<ul style="list-style-type: none">- K2: Describe and outline the development of the application of Mathematics as a language in a wide range of situations relevant to research and industry.- S2: Design mathematical models of real-life problems.- V1: Evaluate and apply ethical considerations in mathematical decision-making and research, ensuring that their work adheres to professional standards and contributes positively to society.

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Event photos or recordings (if applicable)	[✓]

Signature:

Head of department name and date:

Dr.Ibtisam Aldawish

20-5-2025



Guest Lecture Template – Undergraduate/Graduate Program

item	Required Information
Program	BSc Applied Mathematics
Academic Year	2025-2026
Semester	Fall
Date of Lecture	08/09/2025
Lecture Title	Professional Certifications
Guest Speaker Name	Dr. Hessa Al-Qahtani
Position and Affiliation	Associate Professor - King Abdulaziz University – Rabigh
Lecture Overview / Abstract	Main additional certifications for undergraduate Mathematics students to get jobs in finance, data analysis, and related sectors.
Coordinating Faculty Member	Dr. May Al-Hamrani
Target Audience	all undergraduates
Delivery Format	Online
Venue / Platform	Zoom
Learning Outcomes Addressed	<ul style="list-style-type: none"> - K2: Describe and outline the development of the application of Mathematics as a language in a wide range of situations relevant to research and industry. - S2: Design mathematical models of real-life problems. - V1: Evaluate and apply ethical considerations in mathematical decision-making and research, ensuring that their work adheres to professional standards and contributes positively to society.

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Dr.Ibtisam Aldawish

19-6-2025

