Ministry of Higher Education and Scientific Research Scientific Supervision and Scientific Evaluation Apparatus Directorate of Quality Assurance and Academic Accreditation Accreditation Department



# Academic Program and Course Description Guide

## **Introduction:**

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning
of the educational process.

## Concepts and terminology:

**Academic Program Description:** The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

<u>Course Description</u>: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

<u>Program Vision:</u> An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

<u>Program Mission:</u> Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

<u>Program Objectives:</u> They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

<u>Curriculum Structure:</u> All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

**Learning Outcomes:** A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

<u>Teaching and learning strategies:</u> They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extracurricular activities to achieve the learning outcomes of the program.

# **Academic Program Description Form**

University Name: University of Basr	ah
Faculty/Institute: College of engineer	ring
Scientific Department: Materials en	igineering department
Academic or Professional Program	Name: Bachelor of Science in Materials Engineering
Final Certificate Name: B.Sc. in M	laterials Engineering
Academic System: Polona System	
<b>Description Preparation Date: Septe</b>	ember 2025
File Completion Date: September 2	2025
Signature:	Signature:
<b>Head of Department Name:</b>	Scientific Associate Name:
Assist.Prof.Dr.Haider mahdi laath	Prof. Dr. Muneer A. Ismael
Date:	Date:
The file is checked by:	
Department of Quality Assurance and	University Performance
Director of the Quality Assurance and	<b>University Performance Department:</b>
Date:	
Signature:	
	Approval of the Dean
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## 1. Program Vision

The vision of the Department of Materials Engineering lies in being one of the departments concerned with developing the engineering reality in Iraq by creating renewable and distinguished programs that are recognized locally and globally. Also, the department's vision is to provide a high-quality engineering and educational environment and scientific research that enriches this specialization engineer that contributes to building and serving the country.

## 2. Program Mission

Preparing qualified engineering equipped with modern knowledge and technology in various engineering fields. Associated with academic education and a research environment under international standards and effective community partnership. The institutional values espoused by the College of Engineering:

- 1. Professional
- 2. Responsibility
- 3. Justice
- 4. honesty
- 5. Transparency
- 6. Creativity
- 7. Teamwork

## 3.Program Objectives

The department aims to prepare an engineer to work and participate in the following fields:

- 1- Preparing an engineer who can deal with metallic and non-metallic materials successfully, and has knowledge of the sciences and techniques of their manufacture and uses.
- 2- Leading the production processes at the initial and final operations in factories, especially:
- Factories for extracting aluminum, sulfur, and phosphate.
- Steel manufacturing plants.
- Steel Pipe industry and plastic pipe manufacturing plants.
- Oil industries, including production and refining.
- Cement industry.
- Manufacture of glass, ceramics, plastics, and polymers.
- General periodic maintenance and engineering inspection.
- 3- Standardization and quality control of the product of various industrial processes that include water, various liquids, and solids, and calibrating them according to

scientific standardization systems through conducting destructive and non-destructive tests for different materials in laboratories or at work sites.

- 4- Supervising on casting works for metallic and non-metallic materials and metal cutting operations.
- 5- Supervising the implementation of heat treatment programs for different metals.
- 6- Designing of cathodic protection systems.
- 7- Study the problems of mechanical and chemical corrosion of different equipment.
- 8- Studying cases of mechanical failure of various industrial equipment, such as: -
- Heat exchangers and pumps.
- Boilers and turbines.
- RO reverse osmosis units.
- Ion exchange units (salt removers).
- 9- Providing engineering advice in the design and selection of appropriate metallic and non-metallic materials for engineering applications.

## 4.Program Accreditation

The Department of Materials has not yet obtained program accreditation.

#### 5. Other external influences

#### **Global Technological Development:**

The need to update curricula to keep pace with advances in advanced fields, technological diversity, and smart technologies.

#### **Labor Market Needs:**

Demand for engineering materials is growing in the oil, gas, metals, energy, aviation, and medical industries.

#### **Economic Contribution:**

Integrating infrastructure for investment opportunities and national and regional industrial projects.

## **Research and Scientific Directions:**

The Department's role in promoting applied scientific research, including new advances, with national priorities.

#### Academic-like and Global Quality:

It must adhere to academic accreditation standards in addition to quality in engineering education.

## **Social Factors:**

Working with sustainability, environmental protection, and addressing issues related to the impact of industrial alcohol and wine.

6. Program Structure											
Program Structure	Number of	Credit hours	Percentage	Reviews*							
	Courses										
University Requirements	8	18	7.5%								
College	10	55	22.92%								
Requirements											

Department	29	167	69.58%							
Requirements										
Summer Training	Summer Training The Materials Engineering curriculum requires students to									
			at private industries							
	firms. This training	is a compulsory com	ponent of graduation	requirements. It is						
	supervised by the S	ummer Training Con	nmittee of the departs	ment.						
Other	MAE Curriculum /	Units Requirements								
	4 - Years Program (	Full - Time Study)								
	240 ETCs for the M	laterials Engineering	included:							
	Mathematics and ba	sic Science: 42 ETC	s. Engineering To	opics: 180 ETCs.						
	General Education:	: 18 ETCs.		-						

7. Program Description											
Year/Level	Course Code	Course Name	Credit Hours								
			theoretical	practical							
I <sup>st</sup> Year	E111	Mathematics (I)	4	2							
1 <sup>st</sup> Year	E112	Engineering Drawing	2	3							
l <sup>st</sup> Year	E113	Applied Sciences	3	2							
1 <sup>st</sup> Year	MAE111	Engineering Mechanics / Static	4	2							
1 <sup>st</sup> Year	MAE112	Production Engineering	1	3							
1 <sup>st</sup> Year	UOB102	Democracy and Human Rights	2								
l <sup>st</sup> Year	UOB104	Arabic Language I	2								
1 <sup>st</sup> Year	E121	Mathematics (II)	5	2							
1 <sup>st</sup> Year	MAE121	Engineering Mechanics / Dynamic	5	2							
1 <sup>st</sup> Year	MAE122	Materials Extraction Technology	5	2							
1 <sup>st</sup> Year	MAE123	Electrical and electronic materials	2	2							

1st Year	UOB103	Computer I	1	2	
1 <sup>st</sup> Year	UOB101	English Language I	2		
2 <sup>nd</sup> Year	E231	Applied Mathematics	4	2	
2 <sup>nd</sup> Year	MAE231	Physical Metallurgy	2	3	
2 <sup>nd</sup> Year	MAE232	Mechanics of Material	s3	3	
2 <sup>nd</sup> Year	MAE233	Thermodynamics and Fluid Mechanics	2	3	
2 <sup>nd</sup> Year	MAE234	Mechanical Drawing	1	3	
2 <sup>nd</sup> Year	UOB205	Crimes of Baath Party	2		
2 <sup>nd</sup> Year	UOB204	Arabic Language II	2		
2 <sup>nd</sup> Year	E241	Applied Mathematics (II)	4	2	
2 <sup>nd</sup> Year	UOB203	Computer II	1	2	
2 <sup>nd</sup> Year	MAE242	Engineering Metallurg	y 2	2	
2 <sup>nd</sup> Year	MAE243	Strength of Materials	3	2	
2 <sup>nd</sup> Year	MAE232	Chemical Metallurgy	2	2	
2 <sup>nd</sup> Year	MAE244	Autocad	1	3	
2 <sup>nd</sup> Year	UOB201	English Lanquage II	2		

## Expected learning outcomes of the program

#### Knowledge

Knowledge Understanding A1. An ability to apply knowledge of mathematics, science, and engineering A2. An ability to design and conduct experiments, as well as to analyze and interpret data. A3. An ability to identify, formulate, and solve engineering problems. A4. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

and By the end of the program, the student will be able to:

- 1. Apply fundamental knowledge of mathematics, science, and engineering in solving engineering problems.
- 2. Design and conduct experiments, and effectively analyze and interpret data to draw meaningful conclusions.
- 3. Identify, formulate, and solve a wide range of engineering problems using systematic approaches.
- 4. Utilize modern engineering tools, techniques, and skills essential for professional engineering practice.

#### Skills

- B. Subject-specific skills B1. The By the end of the program, the student will be able to: ability to select engineering materials for scientific and industrial applications. B2. The ability to think about solving problems related to the use of engineering materials and methods of avoiding them. B3. Writing scientific reports, reading
  - - 1. Select appropriate engineering materials for various scientific and industrial applications.
    - 2. Analyze and solve problems related to the use of engineering materials and propose effective methods to avoid them.
    - 3. Prepare scientific reports, accurately interpret blueprints, and analyze the properties of engineering materials.

blueprints	and	anal	yzing								
engineering	materia	ls. B4.	The								
ability to	keep	pace	with								
development	s in	engine	ering								
materials and their properties.											

4. Keep up with advancements in engineering materials and their properties, and apply this knowledge in practical contexts.

#### **Ethics**

An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

An ability to recognize ethical and By the end of the program, the student will be able to:

 Recognize ethical and professional responsibilities in engineering practice, and make well-informed judgments that consider the global, economic, environmental, and societal impacts of engineering solutions.

## 9. Teaching and Learning Strategies

1- Explanation and clarification through lectures. 2- Display scientific materials with projectors: data show, smart boards, plasma screens. 3- Self-learning through homework and mini-projects within the lectures. 4- Laboratories. 5- Graduation projects. 6- Scientific visits. 7- Seminars held in the department. 8- Summer training

#### 10. Evaluation methods

1- Short exams (Quiz). 2- Homework. 3- Semester and final exams for theoretical and practical subjects. 4- Small projects within the lesson. 5- Interaction within the lecture. 6- Reports.

# 11. Faculty

#### **Faculty Members**

Academic Rank	Specializ	ation	Special Requirements/Skills (if applicable)		Number of the	teaching staff
	General	Special			Staff	Lecturer
Professor	4				4	
Assist. Prof.	6				6	2
Lecture	9				9	5
Assist. Lecturer	2				2	

<sup>\*</sup> This can include notes whether the course is basic or optional.

#### **Professional Development**

#### Mentoring new faculty members

1.Orientation Phase (First Week)

o Introduction to the Department and Program:

Introduce the department structure and objectives of the Materials Engineering program.

Introduce the students to ABET standards and their importance to the program.

Present the program plan and learning outcomes.

o Available Resources:

☐ Introduce the students to the laboratories, equipment, and available software (such as MATLAB, scanning devices).

Provide a guide to using the library and electronic resources.

o Administrative Procedures:

How to obtain system privileges (email, system login).

Introduce the students to the university and department systems.

2. Academic Training Phase (Two Weeks)

o Teaching Methods:

A workshop on the teaching strategies applied in the department (lectures, active learning, projects).

Training on the use of e-learning tools (Moodle, Google Classroom).

o Assessment and Measurement:

How to design tests and assessments aligned with learning outcomes.

Use various assessment tools (exams, projects, reports, participation).

o Student Support:

Mechanisms for dealing with students with special needs.

How to provide academic advising.

3. Practical Application Phase (During the First Semester)

o Laboratory Training:

Familiarizing them with laboratory equipment and how to conduct experiments (e.g., tensile tests, hardness, electron microscopy).

Laboratory Safety.

o Participation in Scientific Research:

Familiarizing them with the department's research areas (e.g., corrosion, nanomaterials, heat treatments).

Encouraging them to participate in research projects or publish papers.

o Field Visits:

Arranging visits to industrial companies (e.g., oil refineries, ceramic factories) to connect teaching with practical realities.

4. Continuous Follow-up and Support Phase

o Academic Advisor:

Assigning a senior faculty member as a "mentor" to each new faculty member for one academic semester.

#### Professional development of faculty members

Objectives:

- Enhancing the quality of teaching and scientific research.
- Keeping pace with developments in the field of materials engineering.
- Meeting academic accreditation requirements (such as ABET).
- Linking skills to labor market needs.

Main Strategic Plan for Departmental Development

1. Teaching Development

Training Workshops:

Active learning strategies (Project-Based Learning, Case Studies)

Use of modern educational technologies (Virtual Reality, Simulations)

Designing assessments aligned with learning outcomes

Training on E-Learning Platforms:

Moodle, Google Classroom, and remote interaction tools

Peer Observation:

Classroom visits among faculty members to provide constructive feedback

2. Research Development

Research Paper Writing Workshops:

How to publish in indexed journals (Scopus, Web of Science)

Applying for Research Grants:

Writing competitive research proposals

Establishing Research Groups:

Encouraging collaboration among members in fields such as:

Nanomaterials

Corrosion resistance

Alloy development

3. Industry and Community Engagement

Field Visits to Factories:

Oil refineries, production labs, petrochemical companies

Hosting Industry Experts:

Joint lectures on industrial challenges and solutions

Applied Projects with the Private Sector:

Designing graduation projects addressing real industrial problems

4. Participation in Conferences and Workshops

Financial Support for Attending International Conferences:

Partial or full funding for participation

Organizing an Annual Departmental Conference:

Showcasing achievements of faculty and students

5. Language and Professional Development

Academic English Courses:

Improving writing and publication skills

Specialized Professional Certifications:

Fields such as:

NACE Certified Corrosion Technician

6. Evaluation and Follow-Up

Annual Performance Evaluation:

Based on clear criteria: teaching, research, community engagement

Student Feedback:

Periodic surveys to measure student satisfaction

Individual Development Plan (IDP):

Tailored for each member according to their needs and goals

## 12. Acceptance Criterion

- The standard indicates that admission to the program is highly competitive, requiring a high GPA (90 or above).
- The number of students is very limited (only 50 students per year), reflecting the program's focus on quality over quantity.
- Reliance on ABET standards demonstrates the program's commitment to achieving global quality benchmarks.

## 13. The most important sources of information about the program

- 1. Websites of Iraqi and foreign universities
  - To review curricula and program requirements of similar programs and make comparisons.
- 2. Workshops organized by the Ministry of Higher Education and Scientific Research
  - o To follow the latest academic guidelines and standards issued by the Ministry.
- 3. Standards of the Ministry of Higher Education and Scientific Research
  - o To comply with local regulations and standards for engineering education.
- 4. ABET (Accreditation Board for Engineering and Technology) program
  - As a primary reference to ensure program quality and adherence to international standards.

#### 14. Program Development Plan

#### 1. Curriculum and Course Development

Review current courses annually to align with ABET standards and labor market requirements. Introduce new courses in advanced fields such as: Nanomaterials, Advanced Manufacturing Technologies (Additive Manufacturing), Polymers & Composites

Enhance practical skills by increasing laboratory and hands-on training hours.

2. Infrastructure and Laboratory Development

Upgrade laboratory equipment and provide advanced testing and analysis devices (e.g., SEM, XRD, Mechanical Testers).

Provide specialized simulation software (e.g., ANSYS, MATLAB for materials modeling).

Create interactive learning spaces equipped with smart boards and modern projectors.

3. Practical Training and Industry Linkage

Strengthen the summer training program through partnerships with factories and companies (e.g., oil, petrochemical, and metal production companies).

Organize regular field visits to industrial facilities to apply theoretical knowledge.

Host engineers and industry experts for lectures and workshops.

4. Faculty Development

Encourage faculty members to participate in international conferences and workshops.

Utilize academic exchange programs with foreign universities to enhance staff competencies.

Develop teaching skills using modern technologies and e-learning methods.

5. Quality Assurance and Accreditation

Continuously follow international accreditation requirements (ABET) and implement its recommendations.

Conduct periodic surveys for students and graduates to evaluate the program and identify areas for improvement.

Maintain ongoing documentation of program activities and quality reports.

6. Supporting Scientific Research

Encourage undergraduate students to participate in scientific research projects.

Provide small grants to fund outstanding graduation projects.

Establish an academic journal for the Department of Materials Engineering to publish research.

7. E-Learning and Blended Learning

Develop electronic course content (videos, recorded lectures, interactive exercises).

Use learning platforms such as Moodle or Google Classroom to manage courses.

Implement blended learning to enhance the learning experience.

8. Alumni Follow-Up

Create a database of graduates to monitor their performance in the labor market.

Organize employment forums in collaboration with industrial companies.

Survey alumni opinions on the program's relevance to job market requirements.

Required program Learning outcomes																
Year/L evel	- I		Basic or	Kno	Knowledge				Skills				Ethics			
6761	Code	, italiic	optional	A1	A2	A3	<b>A4</b>	B1	B2	B3	B4	C1	<b>C2</b>	С3	C4	
1st year	E111	Mathematics (I)	Basic	<b>✓</b>	<b>√</b>		<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>		
l <sup>st</sup> year	E112	Engineering Drawing	Basic	<b>√</b>	<b>√</b>		<b>√</b>	✓	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>		
l <sup>st</sup> year	E113	Applied Sciences	Basic	✓	<b>√</b>		<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>		
1 <sup>st</sup> year	MAE111	Engineering Mechanics / Static	Basic	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	✓	<b>✓</b>	
1 <sup>st</sup> year	MAE112	Production Engineering	Core		<b>✓</b>	<b>✓</b>		<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>/</b>	<b>√</b>	<b>✓</b>	
1 <sup>st</sup> year	UOB102	Democracy and Human Rights	Basic	✓	✓		<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>		<b>✓</b>			<b>✓</b>	
l <sup>st</sup> year	UOB104	Arabic Language I	Basic	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>~</b>	✓	<b>√</b>	
l <sup>st</sup> year	E121	Mathematics (II)	Basic	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>		<b>√</b>	<b>√</b>	<b>✓</b>	<b>✓</b>		
l <sup>st</sup> year	MAE121	Engineering Mechanics / Dynamic	Basic	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>		<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>		
1 <sup>st</sup> year	MAE122	Materials Extraction Technology	Core	<b>√</b>	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>√</b>	<b>√</b>		
1 <sup>st</sup> year	MAE123	Electrical and electronic materials	Basic	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>√</b>		<b>✓</b>	<b>√</b>	<b>✓</b>	<b>√</b>		
1 <sup>st</sup> year	UOB103	Computer I	Basic	<b>✓</b>	<b>√</b>		<b>✓</b>	<b>✓</b>	<b>√</b>	<b>√</b>		<b>✓</b>	<b>✓</b>	<b>✓</b>		
l <sup>st</sup> year	UOB101	English Language I	Basic	<b>✓</b>	<b>√</b>		<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>~</b>	<b>√</b>		
2 <sup>nd</sup> year	E231	Applied Mathematics (I)	Basic	✓	<b>√</b>	<b>√</b>		<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>√</b>	
2 <sup>nd</sup> year	MAE231	Physical Metallurgy	Core	✓	✓		<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>		
2 <sup>nd</sup> year	MAE232	Mechanics of Materials	Basic	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	
2 <sup>nd</sup> year	MAE233	Thermodynami cs and Fluid Mechanics	Basic	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	

2 <sup>nd</sup> year	MAE234	Mechanical Drawing	Basic	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>√</b>							
2 <sup>nd</sup> year	UOB205	Crimes of Baath Party	Basic	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>~</b>							
2 <sup>nd</sup> year	UOB204	Arabic Language II	Basic	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>✓</b>							
2 <sup>nd</sup> year	E241	Applied Mathematics (II)	Basic	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>√</b>	<b>√</b>
2 <sup>nd</sup> year	UOB203	Computer II	Basic	<b>√</b>	✓	<b>√</b>	✓	<b>√</b>	✓	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>
2 <sup>nd</sup> year	MAE242	Engineering Metallurgy	Basic	<b>√</b>	<b>✓</b>										
2 <sup>nd</sup> year	MAE243	Strength of Materials	Basic	<b>√</b>	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>
2 <sup>nd</sup> year	MAE232	Chemical Metallurgy	Basic	<b>√</b>	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>
2 <sup>nd</sup> year	MAE244	Autocad	Basic	<b>√</b>	✓	<b>√</b>	✓	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>
2 <sup>nd</sup> year	UOB201	English Lanquage II	Basic	<b>√</b>	✓	<b>√</b>	✓	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>

• Please tick the boxes corresponding to the individual program learning outcomes under evaluation.