Ministry of Higher Education and Scientific Research
Scientific supervision and evaluation device
Department of Quality Assurance and Academic Accreditation
Accreditation Department

Academic program and course

2024

the introduction :

The educational program is considered a coordinated and organized package of academic courses that includes procedures and experiences organized in the form of academic vocabulary, the main purpose of which is to build and refine the skills of graduates, making them qualified to meet the requirements of the labor market. It is reviewed and evaluated annually through internal or external audit procedures and programs such as the External Examiner Program..

The description of the academic program provides a brief summary of the main features of the program and its courses, indicating the skills that are being worked on to acquire the students, based on the objectives of the academic program. The importance of this description is evident because it represents the cornerstone of obtaining program accreditation, and the teaching staff participates in writing it under the supervision of the scientific committees in the scientific departments ..

This guide, in its second edition, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the latest developments in the educational system in Iraq, which included a description of the academic program in its traditional form (annual, quarterly), in addition to adopting the description of the academic program circulated according to the book of the Department of Studies 3/2906. On 5/3/2023 with regard to programs that adopt the Bologna Process as a basis for their work.

In this area, we can only emphasize the importance of writing descriptions of academic programs and courses to ensure the smooth conduct of the educational process.

Concepts and terminology

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

Course Description: Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be a developed, inspiring, motivating, realistic and applicable programme.

The program's mission: It briefly explains the goals and activities necessary to achieve them, and also defines the program's development paths and directions.

Program objectives: These are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum structure: All courses/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units.

Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

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Academic program description form

University name: **Al–Furat Al–Awsat Technical University**

College/Institute: **Technical Institute/Kufa**

Scientific Department: **Power Mechanics Department**

Name of the academic or professional program: **Department of Power Mechanics**

Name of final certificate: **Technical diploma**

Academic system: **annual**

Date the description was prepared:

File filling date :

the signature: :

Name of scientific assistant :**Mohammad subhee** :

the date:

the signature:

Name of department president : **imad habeeb**

the date:

Check the file before

Division of Quality Assurance and University Performance

Name of the Director of the Quality Assurance and University Performance Division :**khlood mudafar** :

the date

the signature

Authentication of the Dean

Program vision
Remember to see the program as stated in the university prospectus and website.

Program message.
State the program's mission as stated in the university's bulletin and website.

Program Goals
The Mechanics Department aims to graduate technical cadres who will be a link between the specialist and the skilled worker. The department prepares and prepares the graduate and provides him with theoretical, applied and scientific information to be able to carry out the work assigned to him..

Program accreditation
ABET Engineering specializations

Other external influences
Public sector and private sector

Program structure				
comments*	**percentage**	**Study unit**	**Number of courses**	**Program structure**
	40%	**56 unit**	**The first 10**	**Enterprise requirements**
	60%	**70 unit**	**the second 13**	
				College requirements
				Department requirements
				summer training
				Other

Program description				
Credit hours		**Name of the course or course**	**Course or course code**	**Year/level**
Practical	**theoretical**			

.1 Expected learning outcomes of the program	
Knowledge	
Statement of learning outcomes 1	Learning Outcomes1
Skills	
Statement of learning outcomes 2	Learning Outcomes 2
Statement of learning outcomes 3	Learning Outcomes 3
Value	
Statement of learning outcomes 4	Learning Outcomes 4
Statement of learning outcomes 5	Learning Outcomes5

.1 Teaching and learning strategies
Lecture, workshop, laboratory, methodological training, summer training

.2 Evaluation methods
Oral examinations, written examinations, semester examinations, final examinations, daily evaluation

education institution						
Faculty members						
Preparing the teaching staff		**Special requirements/skills (if any)**		**Specialization**		**Scientific rank**
lecturer	**cadre**			**private**	**general**	
	/			Mechanical	Mechanical	Assistant Professor Doctor
	/			IOT	computer Sciences	Teacher
	/			Conditioning and cooling	Mechanical	Teaching assistant

Professional development
Orienting new faculty members
Briefly describes the process used to orient new, visiting, full-time, and part-time faculty at the institution and department levels.
Professional development for faculty members
Briefly describe the academic and professional development plan and arrangements for faculty members such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

Acceptance standard
(**Developing regulations related to admission to the college or institute, whether central admission or others mentioned**)

The most important sources of information about the program

Program development plan

Program skills chart															
Learning outcomes required from the programme															
Value				Skills				Knowledge				Essential or optional	Course Name	Course Code	Year/level
C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1				
/	/	/	/	/	/	/	/	/	/	/	/	Basic	Mechanical		The first
/	/	/	/	/	/	/	/	/	/	/	/	Basic	Mechanical		the second

Course description form

.Course name
Internal combustion engines
1. .1Course code
2. .2Semester/year
Year
3. .3The date this description was prepared
.4Available forms of attendance
Halls, laboratories, and workshops
Number of study hours (total)/number of units (total(
4 Hours per week
4. .4Name of the course administrator (if more than one name is mentioned(
Name : Email: A.M.D. Muhannad Hamza Hussein
.5Objectives of the course
Objectives of the study material: The student will be able to identify the types of combustion engines, their parts, and the differences in… **What is between them in terms of their work, the foundations of that work, and a study of the performance parameters for each type and the influencing factors** **on those transactions**
5.

	The strategy

6. .6Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Oral + semester	Lecture and laboratory	Engine design Internal combustion	Learn the working principle Combustion engines Internal	4	1- 4
Oral + semester	Lecture and laboratory	Harmful emissio issued by engine Internal combustion	Learn how to configu Emissions inside rooms Combustion	4	8 -5
Oral + semester	Lecture and laboratory	Engine performance Its laws and methods the account	Learn about calculation methods Horsepower and torque Brake and consumption rate Fuel	4	12-9
Oral + semester	Lecture and laboratory	Engine maintenance Internal combustion	Learn the necessary methods Follow it to increase engine performance	4	16 -13
Oral + semester	Lecture and laboratory	Preserving the environment emissions from Car engines	Learn the path of dut Follow it to reduce emissions Harmful to the engin	4	20-17
Oral + semester	Lecture and laboratory	Sustainable ener And renewable	Learn about the type of fuel Alternative to engine that Operated by spark ar compression	4	24-21
Oral + semester	Lecture and laboratory	Quad motors Two-stroke and two-stroke	Learn about the type of engines	4	30-25

.Course evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, quarterly and written exams, reports, etc.

.Learning and teaching resources	
Methodical book	Required textbooks (methodology, if any(
Methodical book + Internet resources	Main references (sources(
Dr.. Adel Mahmoud Hassan, Dr. Qahtan Khalaf Al-Khazraji Principles of Production, Second Edition, University of Baghdad Higher Education Press, 1987	Recommended supporting books and references (scientific journals, reports(….
Iraqi Virtual Library, Wikipedia website	Electronic references, Internet sites