

Ministry of Higher Education and Scientific Research

Scientific supervision and evaluation device

Department of Quality Assurance and Academic Accreditation

Academic program description forms for colleges and institutes

For the year 2024

University: Al-Furat Al-Awsat Technical

College/Institute: Technical Institute/Kufa: Mechanical

Signature: Signature:

Name of the Department Head: A.M. Kazem Khayoun Kahloul

Date:

Name of scientific assistant: A.M. Muhammad Hamid Jaafar

Date:

Check the file before

Division of Quality Assurance and University Performance

Name of the Director of the Quality Assurance and University Performance Division: Kholoud Muzaffar

the date

the signature

Authentication of the Dean

Description of the academic program

The most important characteristics of the program and the learning outcomes that students are expected to This academic program description provides a summary It is accompanied by a description of each course within he made the most of the opportunities available •

Al-Furat Al-Awsat University,	1. Educational institution
Technical Institute / Kufa - Department of Mechanical Technologies / Production Branch	2. Scientific department/center 3. Name
Mechanical Technology Technical	of the academic or professional program Department of
Diploma 4. Name of the final certificate 5. Academic system: annual / courses / other annual	
system 6. Approved accreditation program 7. Other external influences 8. Date the description was	
ABET Engineering majors	prepared 9. Objectives of the academic program: The Department of
Public sector and private sector.	Mechanical Technology
11\1\2021	aims to graduate technical cadres who
are qualified for the force, both as specialists and	
skilled generalists. The department prepares and prepares the graduate and provides him with theoretical, applied and practical information so that he will be highly capable of carrying out the work assigned to him.	

10. Required program outcomes and teaching, learning and evaluation methods: A- Cognitive objectives 1- Mathematics 2- Mechanics 3- Manufacturing	
-11 Machinery parts 12	processes/ 1- 4-
Manufacturing processes 2/	Engineering
13- Maad 14-	drawing 5- Computer applications/
Occupational management and safety 15-	1- 6 Properties of materials
Computer applications/2	7- Human rights 8- Mathematics 1/ 9-
-16 Industrial drawing -17 Maami2/	English Language / 1 10 –
-18-Project 19-English	Electrical Technology. B
Language 2/	- Skills objectives of
	the program 1. Identify the basic
	principles of mechanical devices. 2. To
learn skills related to the subject of devices, machines, and mechanical properties.	
3. Identify the mechanical properties of materials. 4. How to protect and maintain	
mechanical devices	
Teaching and learning methods,	
Summer training, projects (, Workshops , laboratories (lectures).	

Evaluation methods :			
Final exams (Oral exams	Daily examinations (monthly examinations).	C- Emotional
and value-based objectives. 1. The student's ability to gain mechanical ability. 2. The student learned methods of protection for machinery and equipment. 3. The student learned mechanical calculations and knowledge of the properties of materials. Methods of teaching			
and learning laboratory.			
Summer training, projects (Workshops (Lecture,			
evaluation methods ,			
Final exams (d) General and oral examinations, daily evaluation, (monthly examinations)			

qualifying transferable skills (other skills related to employability and personal development). 1. Using ready-made systems such as (AutoCAD...).

10. Blindness on CNC programmed machines.

11. Preparing computers (formatting them) and inserting software into them.

12. Knowing the workings of mechanical testing equipment. 5. The English language

Teaching and learning

Systematic training, projects (summer training, Workshops Laboratories **methods (lectures,**

evaluation methods).

Final exams (, daily evaluation, oral exams (monthly exams).

-11 Program structure

20 credit hours per week, theoretical and practical			Name of the course or course	Course or course code	
	13		Department of Mechanical	-	The first round The
19	11		Technologies Department of	-	second round
Mechanical Technologies The technical diploma degree of the Department of Mechanical Technologies requires: $33* + 30 \ 30*30 = 1890$ credit hours				-12 certificates and credit hours	

-13 Planning for personal development

13- Admission standard (establishing regulations related to admission to the college or institute)

GPA : 55% and more: Branch graduated from: Scientific + Industrial - 15 The

most important sources of information about the program

Development plan for the Department of Mechanical Technology (prescribed curricula, lectures and Internet resources)

Curriculum skills chart																			
Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation																			
Learning outcomes required from the program me																			
General and qualifying transferable skills (other skills related to employability and personal development)				Emotional and value goals				Skills objectives of the program				Cognitive objectives				Essential or optional?	Course Name	Course Code	Year/level
D4	A3 A4	B1 B2 B3 B4	C1 C2 C3 C4 D1 D2 D3	///										A2	A1				
/	/	/	/		/	/			/		/	/	/	/	/		basic	Mechanical techniques	The first
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		basic	Mechanical techniques	the second

Course description form **Course description**

<p>This course description provides a succinct summary of the most important course characteristics and the learning outcomes the student is expected to achieve</p> <p>Learning available. It must be linked to a description of whether he made the most of the opportunities</p>	<p>Program</p> <p>proof.</p>
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Al-Furat Al-Awsat Technical University	1. Educational institution
scientific department	2. Scientific department/center
Manufacturing processes 2/	3. Course name/code
Workshops , Laboratories , Halls	4. Various forms of attendance
annual	5. Semester/year
4 hours per week.	6. Number of study hours (total)
/11 /1 2018	7. Date this description was prepared 8.

<p>Course objectives : The student will be able to work in the fields of manufacturing and production and be a professional for business.</p> <p>The</p> <p>following: 1 The ability to decompose processes into operational components.</p> <p>2 And the numbers of the technological path between productive births. 3</p> <p>Preparing operating cards and commands for generation and machine operation and for operating time elements and warm-up programs.</p> <p>For births. 4.</p> <p>Conduct preliminary calculations of operating costs.</p>
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Course outcomes and teaching, learning and evaluation methods				.10
<div>A- Cognitive objectives</div> <div>A-1- Engineering features. A-2- Metal manufacturing A-3- Turning pens. A-4- Operating cards. A-5- Operating rates. A-6- Forming the subject B-</div>				
<div>The skills objectives of the course.</div> <div>B-1- Turning andmilling workshop. B-2- Measurements Laboratory.B- 3- Programmed machines. B-4- Al-Maad Laboratory,</div>				
Teaching and Learning Methods				
summer training Workshop, laboratory, methodological training, , lecture				
Evaluation				
evaluation.	Final exams, daily	, Quarterly exams	, methods: Oral tests, written tests. C- Emotional and	
<div>value-based objectives. CNC programmedmachines. C-</div> <div>1- How to deal with them. C-2- Maintenance of lathe and milling machines. C-3- Reasons for approximate operating rates. C-4- Knowing the faults in teaching</div>				
and learning methods				
summer training . systematic training, , Laboratory , The workshop , lecture				
Evaluation methods				
evaluation.	Final exams, daily	, Quarterly exams	, Written tests D - General	, Oral exams
<div>and qualifying transferable skills (other skills related to employability and personal development).</div> <div>CNC programmed machines D - 1 - How to deal with machines D - 2 - Maintenance of machines D - 3 - Preparing the operating card for manufacturing operations D - 4 - Identifying malfunctions</div>				

.11 Course structure					
Teaching method and evaluation method	Name of the item/or subject.	Required learning outcomes	hours	week	
Daily + monthly	Lecture and laboratory	Geometric tolerances and Determinants, their types.	Introducing the student to engineering tolerances	4	1 and 4
Daily + monthly	Lecture and laboratory	Measurement. reshaping Classification of tools. Cutting pens.	Introducing the student to the classification of mathematics	4	5 and 8
Daily + monthly	Lecture and laboratory	How to make an operating card. Determine cutting	Introducing the student to the operating card	4	9 and 12
Daily + monthly	Lecture and laboratory	conditions. How to inspect automatic programmed machines and the tools used and their	Introducing the student to the types of machines and their accessories	4	13 and 16
Daily + monthly	Lecture and laboratory	accessories. Conducting milling operations.	Introducing the student to milling operations	4	17 and 20
Daily + monthly	Lecture and laboratory	Manufacturing gears. Explaining the cutting stroke process and return. Grinding and grinding used machine	Introducing the student to the planer and grinding machine	4	21 and 24
Daily + monthly	Lecture and laboratory	A theory of shaping the past (cold and hot) and traditional methods	Introducing the student to the composition of the Maad	4	25 and 30

.12 Infrastructure	
The Methodical Book	1 and the required textbooks 2 and
The Methodical Book + Internet Resources Adel	the main references (sources)
Khalaf Al-Khazraji, second edition, University Principles of Higher Education Press 1987.	Or books and references that are recommended for reports (s. scientific journals.)
B and electronic references, Internet sites, Scientific Research website, Wikipedia website, Iraqi Virtual Library	

.13 Course development plan	
Development plan for the Department of Mechanical Technologies (prescribed curricula + Internet resources)	