Course Description Form

1. Course Name:

Automation and CNC Machines

2. Course Code:

ACNC1456

3. Semester / Year:

2nd Semester

4. Description Preparation Date:

25/3/2024

5. Available Attendance Forms:

Presence

6. Number of Credit Hours (Total) / Number of Units (Total)

2/45

7. Course administrator's name (mention all, if more than one name)

Name: Firas Abdulrazzaq Raheem

Email: firas.a.raheem@uotechnology.edu.iq

8. Course Objectives

Course Objectives

This course aims to acquire the students with the principle of automation, types of automation, building blocks of automation which includes, sensors, analyzers actuators and drives. Also, with mechanization of parts handling and with the automatic production concept, assembly machine and the calculation of production and throughput time.

9. Teaching and Learning Strategies

Strategy

- Lectures.
- Tutorial.
- Quizzes.

10. Course Structure

Week	Hours	Required	Unit or subject name	Learning	Evaluation
		Learning		method	method
		Outcomes			

1-2	3			duction to tomation	Lectures	Participation
3	3			ng Blocks of tion – Sensors	Lectures	Participation
4	3		tutorial Lectures P		Participation and solving sheet1	
5	3		Auto	ng Blocks of omation – nalyzers	Lectures	Participation
6	3		Building Blocks of Automation – Actuators		Lectures	Participation
7	3		tutorial		Lectures	Participation and solving sheet2
8	3				Participation	
9	3		Mechanization of Lectures Participarts Handling		Participation	
10	3		tutorial Partici solvin		Participation and solving sheet3	
11-12	3			tic Production Assembly	Lectures	Participation
13	3				Participation	
14	3		_	ming of CNC Iachine	Lectures	Participation
15	3			utorial	Lectures	Participation and solving sheet4
11.	Course Ev	aluation				
5% Qui	cumented zzes orts and ho					
12.	Learning a	and Teaching F	Resources			
Require	d textbooks	(curricular books	s, if any)	Robots and N Ray Asfahl, Jo	_	Automation , Cons, 1992.
				Manufacturin Cambridge Un	_	, Yusuf Altintas, 2012.
Main re	ferences (so	ources)				
Recomm	mended boo	ks and reference	s (scientific			

journals, reports...)

Electronic References, \	Websites		