Ministry of Higher Education and Scientific Research

Supervision and Scientific Evaluation Body

Quality Assurance and Academic Accreditation Office

Course Description Sample

Subject: Workshops

1. Educational Institution	Shatt Al Arab University College
2. Department / Center	Mechanical Power Engineering.
3. Course Title /Code	Workshops/PMAC102
4. Lecturer Name	Adil Kadhim Abdul Abbas
5. Type of Teaching	Practical
6. Academic Year /Term	First Stage/First term
7. Total No. of Teaching Hours	112
8. Date of Preparing this Course	20/11/2023
Description	

9. Course Objectives

Identify the students on the gain of the manual skills by preceding the operations and manufacturing processes.

Training on Files and the cold process: types and specifications of files.

Training on Saw cutting: hand saw, saw weapon, saw weapon installation.

Training on Lathe: specifications, use, accessories and installation methods - forming the lathe - types of lathe pens and the use of measuring tools.

Practical exercises for welding opposite surfaces, perpendicular surfaces, inclined surfaces and circuit welding, longitudinal and transverse cutting - cutting: circle, irregular shapes.

10. Course Output, Methodology and Evaluation

(A) Cognitive Objectives

Training and doing manual operation. Also, doing the maintenance by using different manual tools and measuring instruments

(B) Skill Objectives Related to the Program:

By the end of the engineering mechanics module, students should be able to: preceding the operations and manufacturing processes, and doing the maintenance by using different manual tools and measuring instruments

Methods of Teaching and Learning

The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, and hand-in assignments.

Methods of Evaluation

Number	calendar element	degree
1	Reports	60%
2	Quizzes	40%

(C) Sentimental and Value Objectives

Expending the student critical thinking skills

Methods of Teaching and Learning

Theoretical explanation for each workshop and explaining different tools and machines with the practical exercise.

Methods of Evaluation

Development the student skills by doing the written exam, Case studies, Quizzes, seminars, Practical testing, and Online testing.. This exams have achieved through classes and interactive tutorials.

D) General and Qualitative Skills (other skills related to the ability of employment and personal development)

Achieve a practical exercise on different machines and manual tools.

11. Course Structure

Week	No of	Required Learning	Title of Subject	Teaching	Evaluation
	Hours	Output		Method	
1	6	100%	Industrial Safety	practical	
2	6	100%	Measurement Tools: Vernier	practical	
3	6	100%	Measurement Tools: Micrometer	practical	
4	6	50%	Grinding	practical	
5	6	50%	Sawing	practical	
6	6	50%	Drilling	practical	
7	6	50%	Carpentry	practical	
8	6	100%	Lathe parts and tools	practical	
9	6	100%	Turning training	practical	
10	6	100%	manual Welding	practical	
11	6	100%	Welding training	practical	
12	6	100%	MIG and TIG Welding	practical	
13	6	100%	Point welding	practical	
14	6	100%	SAW welding	practical	
15		100%	Gas Welding	practical	

	6				
16	6	100%	Gas Cutting	practical	
17	6	100%	Shaping Machine	practical	
18	6	100%	Casting I	practical	
19	6	100%	Casting II	practical	
20	6	100%	Forging	practical	

12.Infrastructure

a. Textbooks	العزاوي عبد فارس علي, الورش الهندسية, جامعة تكريت, كلية الهندسة,
	2022.
	Khalid Ayob, Salman Dawod, Engineering Workshops
	manual, Basra University, College of Engineering, 1986.
b. References	Sing, Rajendar, Introduction to Basic Manufacturing
	Process Workshop Technique; Publication date. January 1,
	2010.
c. Recommended	1. Tate, M. L. (2009). Workshops. The Learning
books and	Professional, 30(1), 44.
periodicals	2. Mgreen, R., & Levinsen, K. T. (2017). Workshops as a
(journals, reports,	research methodology. Electronic Journal of E-learning,
etc.)	15(1), 70-81.
d. Electronic	https://themeforest.net/search/mechanical%20workshop
references, internet	https://tapintosafety.com.au/mechanical-workshop/
websites, etc	

13. The Plan of Improving the Course

The course should be improved by increasing of training the experiments on each machine and developing the ability of the students to achieve different manual operations.