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

Academic Program Description Form for Colleges and Institutes Academic Year

University: Shatt Al-Arab
College/Institute: Engineering
Scientific Department: Civil
Date of Form Completion: 01/09/2024

Signature
Name of Head of Department:

Asst. Lecturer Nabeel Najm Abdullah

Signature

Name of Scientific Assistant: Dr. Jawad Kadhim

Reviewed by:
Quality Assurance and University Performance Division
Name of Division Director: Dr. Jasem Mohsen Yasser

Signature:

الدكتور
جاسم محسن ياسر
Dr.Jasim Al-Battat

جامعة شط العرب
كلية الهندسة
العمادة
SHATT AL-ARAB UNIVERSITY

أ.م.د.احسان قاسم محمد
عميد كلية الهندسة

Dean's Approval

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

The model description provides a brief description of the main features of the course and the scientific outputs that the model student is expected to achieve if the student takes advantage of the learning opportunities available for the course. It should be compared with the description of the program.

1. Teaching Institution	Shatt Al-Arab University
2. University Department/Centre	Civil Engineering Department
3. Course title/code	**Engineering Management \ CE316**
4. Modes of Attendance offered	Class attendance
5. Semester/Year	1st semester / 3nd year
6. Number of hours tuition (total)	30 hrs.
7. Date of production/revision of this specification	2024
8. Aims of the Course	
Teaching undergraduate students how to deal with applied engineering programs such as the EPANET program used to analyze and For water network design, as well as the Microsoft Project program used in planning construction projects, estimating costs and project completion time, and controlling projects.	

9· Learning Outcomes, Teaching, Learning and Assessment Method

A-Learning outcome

1- Teaching students how to deal with construction programs in an integrated manner and comparing with the theoretical study to design and analyze For water network design.

2- Teaching students how to create quantity schedules for construction projects by controlling the workflow

Teaching and Learning Methods

•Theoretical lectures, practical lectures, small discussion groups, presentation of scientific films, and writing reports.

Assessment methods

- Interacting within the lecture.
- Homework and reports.
- Short exams (quizzes).
- Semester and final exams.

C. Thinking Skills

C1- Attention: Arousing the students' attention by implementing one of the applied programs on the display screen in the hall.

C2- Response: Follow up the student's interaction with the material displayed on the screen.

C3- Attention: Follow up on the interest of the student who interacted more with the presented material, by increasing this interaction by requesting other programs and applications to display.

C4 - Forming the direction: meaning that the student is sympathetic to the presentation and may have an opinion about the direction of the presented topic and defend it.

C 5- Formation of value behavior: meaning that the student reaches the top of the emotional ladder, so that he has a stable level in the lesson and does not become lazy or fidgety.

Teaching and Learning Methods

- The usual theoretical presentation method using the writing board and depending on the style (how and why) of the subject and according to the curriculum of the subject.
- The theoretical presentation method using the (data show) device and depending on the method (how and why) of the subject and according to the subject curriculum.
- The method of laboratory display using special devices for measuring the different properties of the substance under experiment.

Assessment methods
• Direct questions in a manner (how and why) for the subject during the theoretical and practical lecture. • Sudden exams during the theoretical and practical lecture. • Quarterly exams for the theoretical and practical side.
• Final exams for the theoretical and practical side.
D. General and Transferable Skills (other skills relevant to employability and personal development) D1- Develop the student's ability to perform the duties and deliver them on time D2 - Logical and programmatic thinking to find programmatic solutions to various problems D3 - developing the student's ability to dialogue and debate D4 - Develop the student's ability to deal with modern technology, especially the Internet

10. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Learn about engineering management	Introduction to project management	Th. Lecture	Written exam
2	2	Learn about project planning methods	Project planning	Th. Lecture	Written exam
3	2	Learn about project planning methods	Project planning	Th. Lecture	Written exam
4	2	How to draw using a Gantt chart	Bar chart (Gantt chart)	Th. Lecture	Written exam
5	2	How to draw using a Gantt chart	Bar chart (Gantt chart)	Th. Lecture	Written exam
6	2	How to draw a network analysis method (arrow method)	network analysis method (arrow method)	Th. Lecture	Written exam

7	2	How to draw a network analysis method (Rectangles method)	network analysis method (Rectangles method)	Th. Lecture	Written exam
8	2	How to find critical path activities	Critical Path Method (CPM)	Th. Lecture	Written exam
9	2	Project Resource Management (Leveling)	How to manage project resources in a (Leveling)	Th. Lecture	Written exam
10	2	Project Resource Management (Scheduling)	How to manage project resources in a (Scheduling)	Th. Lecture	Written exam
11	2	Program Evaluation and Review Technique (PERT)	How to solve the diagram in a way (PERT)	Th. Lecture	Written exam
12	2	Program Evaluation and Review Technique (PERT)	How to solve the diagram in a way (PERT)	Th. Lecture	Written exam
13	2	Repetitive Projects Planning by Line of Balance (LOB)	How to draw recurring charts LOB method	Th. Lecture	Written exam
14	2	Repetitive Projects Planning by Line of Balance (LOB)	How to draw recurring charts LOB method	Th. Lecture	Written exam
15	2	Repetitive Projects Planning by Line of Balance (LOB)	How to draw recurring charts LOB method	Th. Lecture	Written exam

11. Infrastructure	
1- Required reading: · Books · COURSE MATERIALS · OTHER	A Guide to the project management body of knowledge - PMI
2. Key references (sources)	1. Project Management, A Systems Approach to Planning, Scheduling, and Controlling, 10th edition, KERZNER 2. Principles of Construction management By: Roy Pitcher 3. Construction Planning, Programming and Control by Brian Cooke 4. Operations Management Creating Value Along the Supply Chain Russell - Chapter 9: Project management
A- Recommended books and references (scientific journals, reports ,....	Library locations in some international universities.
B- Electronic references, websites	Reputable websites. Libraries sites in some international universities.

12. Course development plan
Adding new subjects to the curricula within the development of the course by no more than 5%. Adding new references