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 **Signature**
Name of Head of Department:

Asst. Lecturer Nabeel Najm Abdullah **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

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	**Computer applications-1**
4. Modes of Attendance offered	Class attendance
5. Semester/Year	1st semester / 3rd 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- Cognitive objectives
A1- Learn about engineering programs and their types
A2- Know the sources of obtaining programs
A3- Know the basics of engineering programs
B- Skill objectives specific to the course.
B1- Learn to choose the appropriate program
B2- Know how to provide the information required to feed the program
B3- Know how to open the program and enter information
B4- Learn to conduct analysis and obtain results

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	Engineering Programs	Engineering Programs	Practical	Practical exam
2	2	Epanet Basics	Epanet Program	Practical	Practical exam
3	2	Learn to Draw Water Network Components	Drawing Water Network Components	Practical	Practical exam
4	2	How to Determine Contract Levels, Tanks, and Pipe Diameters	Determining Contract Levels, Tanks and Pipe Diameters Pump Information	Practical	Practical exam
5	2	Enter Pump Information	Network Analysis	Practical	Practical exam

6	2	Conduct Network Analysis	Review Results	Practical	Practical exam
7	2	How to Review Results	Entering Time-Variable Information	Practical	Practical exam
8	2	How to Enter Time-Variable Information	Conducting Analysis and Displaying Results	Practical	Practical exam
9	2	How to Conduct Analysis and Display Results	MS-Project Introduction to the Program	Practical	Practical exam
10	2	Definition of MS-Project Program	Dividing the Project into Sub-Activities	Practical	Practical exam
11	2	Introduction to the Program	Entering Activity Names and Time for Each Activity	Practical	Practical exam
12	2	Learn to Break Down the Project into Sub-Activities	How to Link Activities with Time Relationships	Practical	Practical exam
13	2	Learn to Enter Activity Names and Time for Each Activity	Critical Path Method	Practical	Practical exam
14	2	Learn How to Link Activities with Time Relationships	Resources	Practical	Practical exam
15	2	Learn the Critical Path Method	Resources	Practical	Practical exam

11. Infrastructure	
1- Required reading: · Books · COURSE MATERIALS · OTHER	Epanet Program Guide MS Project Program Guide
2. Key references (sources)	Epanet Program Guide MS Project Program Guide
A- Recommended books and references (scientific journals, reports ,....	

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