

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

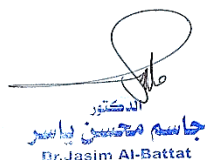


Signature

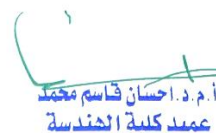
Name of Scientific Assistant: Dr. Jawad Kadhim

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

Signature:



الدكتور  
جاسم محمد ياسين  
Dr. Jasim Al-Battat



أ.م.د. احسان فاسم 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	<b>Computer applications-2</b>
4. Modes of Attendance offered	Class attendance
5. Semester/Year	2 <sup>nd</sup> semester / 3 <sup>rd</sup> year
6. Number of hours tuition (total)	30 hrs.
7. Date of production/revision of this specification	2024
8. Aims of the Course	
□The course aims to introduce the principles of structural analysis and design of buildings using ETABS software.	

#### 9. Learning Outcomes, Teaching, Learning and Assessment Method

##### A- Cognitive objectives

A1- Structural analysis and design of structures using ETABS program.

##### B- Course specific skill objectives.

B1- Using ETABS program for the purpose of analyzing and designing structures.

Teaching and Learning Methods
<ul style="list-style-type: none"> <li>•Theoretical lectures, practical lectures, small discussion groups, presentation of scientific films, and writing reports.</li> </ul>
Assessment methods
<ul style="list-style-type: none"> <li>• Interacting within the lecture.</li> <li>• Homework and reports.</li> <li>• Short exams (quizzes).</li> <li>• Semester and final exams.</li> </ul>
<p>C. Thinking Skills</p> <p>C1- Attention: Arousing the students' attention by implementing one of the applied programs on the display screen in the hall.</p> <p>C2- Response: Follow up the student's interaction with the material displayed on the screen.</p> <p>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.</p> <p>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.</p> <p>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.</p>

Teaching and Learning Methods
<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• The method of laboratory display using special devices for measuring the different properties of the substance under experiment.</li> </ul>
Assessment methods
<ul style="list-style-type: none"> <li>• Direct questions in a manner (how and why) for the subject during the theoretical and practical lecture.</li> <li>• Sudden exams during the theoretical and practical lecture.</li> <li>• Quarterly exams for the theoretical and practical side.</li> </ul>

- 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	Introduction to Etabs	Introduction to Etabs	<b>Practical</b>	Practical exam
2	2	Modelling of the Structures	Modelling of the Structures	<b>Practical</b>	Practical exam
3	2	Modelling of the Structures	Modelling of the Structures	<b>Practical</b>	Practical exam
4	2	Modelling of the Structures	Modelling of the Structures	<b>Practical</b>	Practical exam
5	2	Loading Definition	Loading Definition	<b>Practical</b>	Practical exam
6	2	Loading Application	Loading Application	<b>Practical</b>	Practical exam
7	2	Lateral Loads	Lateral Loads	<b>Practical</b>	Practical exam
8	2	Structural Analysis	Structural Analysis	<b>Practical</b>	Practical exam
9	2	Results Display	Results Display	<b>Practical</b>	Practical exam
10	2	Results Display	Results Display	<b>Practical</b>	Practical exam
11	2	Reinforced Concrete Frame Design	Reinforced Concrete Frame Design	<b>Practical</b>	Practical exam
12	2	Steel Frame Design	Steel Frame Design	<b>Practical</b>	Practical exam
13	2	Steel Frame Design	Steel Frame Design	<b>Practical</b>	Practical exam
14	2	Export and Import Files	Export and Import Files	<b>Practical</b>	Practical exam

15	2	Export and Import Files	Export and Import Files	Practical	Practical exam
----	---	-------------------------	-------------------------	-----------	----------------

11. Infrastructure	
1- Required reading: · Books · COURSE MATERIALS · OTHER	Etabs Manuals
2. Key references (sources)	
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