

# TEMPLATE FOR COURSE SPECIFICATION

## HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

The course provides general information for using the tools and concept of engineering drawing, teaching drawing lines, their types and use, and drawing geometric shapes with the method of placing dimensions. The course contributes to reading engineering plans and how to deduce details and measurements of work from the course using the paper plan or using computer-aided engineering drawing programs.

1. Teaching Institution	Shatt Al-Arab University College
2. University Department/Centre	Civil Engineering Department
3. Course title/code	Engineering Drawing 1
4. Modes of Attendance offered	Class attendance
5. Semester/Year	1 <sup>st</sup> semester / 1 <sup>st</sup> year
6. Number of hours tuition (total)	90 hrs
7. Date of production/revision of this specification	2022
8. Aims of the Course	<ul style="list-style-type: none"><li>It is noticeable that facilities, buildings and construction projects have developed significantly in recent years, and accordingly, the methods of presenting ideas and engineering plans have evolved, and a great deal has been relied on modern technologies such as computers and engineering programs in the presentation of engineering plans. Therefore, this course aims to introduce the student to the methods and tools of paper engineering drawing, how to read diagrams, and ways to find dimensions or shapes that are not shown in the diagram through some of the engineering processes and ideas of engineering drawing. This course is also an important introduction to computer applications of engineering drawing, as the civil engineering specialist will not be able to make the most of the computer unless he is fully familiar with the subject of engineering drawing.</li></ul>

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

### A- Knowledge and Understanding

- A1- Clarify the basic concepts of engineering drawing by defining the tools for drawing and how to use them and how to deduce civil dimensions and shapes from drawings and diagrams.
- A2- Acquisition of skills in addressing site engineering problems.
- A3- Acquiring basic skills as an introduction to building a successful civil engineer.
- A4- Gain a basic understanding of engineering designs and their various industrial and construction applications.

### B. Subject-specific skills

- B1 - The ability to draw sections and geometric shapes.
- B2 - The ability to think about finding dimensions and deducing missing shapes for any structure or geometric shape.
- B3 - Writing detailed scientific reports for engineering plans.
- B4 - The ability to gain experience in dealing with executive engineering plans.

### Teaching and Learning Methods

- Readings, self-learning, panel discussions.
- Exercises and activities in the lecture.
- Homework.
- Directing students to some websites to benefit and develop their capabilities.
- Conducting seminars to explain and analyze a specific issue and find solutions to it

### 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	6			General information for the use of tools and the concept of engineering drawing	Class work
2	6				Class work
3	6				Class work
4	6			Teaching drawing lines and their types	Class work
5	6				Class work
6	6			engineering operations	Class work
7	6				Class work
8	6				Class work
9	6			Dimensions	Class work
10	6			applications	Class work
11	6				Class work
12	6				Class work
13	6			projection drawing	Class work
14	6				Class work
15	6				Class work

11. Infrastructure	
1- Required reading: · Books · COURSE MATERIALS · OTHER	Engineering drawing written by Abdul Rasoul Al Khaffaf Descriptive geometry written by Jassim Shehab
2. Key references (sources)	Engineering drawing by French
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