1. Course Name:
Environmental Engineer
2. Course Code:
CIV32206
3. Semester / Year:
Second/ Third Year
4. Description Preparation Date:
1 September 2025
5. Available Attendance Forms:
Class
6. Number of Credit Hours (Total) / Number of Units (Total)
4/5
7. Course administrator's name (mention all, if more than one name)
Name: Aya Luay Khalil E-mail: aya.luay@muc.edu.iq
8. Course Objectives

Course Objectives	Graduation of civil engineers qualified to work in their various fields of specialization: 1. Providing the student with the necessary skills and mechanisms to deal with the latest developments in scientific and technical progress in their field of specialization. 2. Special care for outstanding students and enabling them to put forward their ideas. 3. Providing the student with high skill and the ability to solve problems and teamwork. 4. - Instilling the spirit of diligence and perseverance and encouraging them to create and innovate.
9. Teaching and Learning Strategies	
Strategy	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.

1. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Introduction to global environmental ecosystem	Introduction	Theoretical	Several Ways (Exams + Assignments)
2	5	Water Pollutant Their Sources.	Water Quality Management	Theoretical	Several Ways (Exams + Assignments)

3	5	Surface Water Quality (Rivers Lakes)	Water Quality Management	Theoretical	Several Ways (Exams + Assignments)
4	5	Origin and Fate Air Pollutants	Air Pollution	Theoretical	Several Ways (Exams + Assignments)
5	5	Effects of Air Pollutants	Air Pollution	Theoretical	Several Ways (Exams + Assignments)
6	5	Air Pollution Meteorology	Air Pollution	Theoretical	Several Ways (Exams + Assignments)
7	5	Atmospheric Dispersion	Air Pollution	Theoretical	Several Ways (Exams + Assignments)
8	5	Solid Waste Management	Solid Waste Management	Theoretical	Several Ways (Exams + Assignments)
9	5	Type of Collecti rout	Solid Waste Management	Theoretical	Several Ways (Exams + Assignments)
10	5	Mid-term exam			Exam
11	5	Disposal by Sanitary Landfil	Sustainability	Theoretical	Several Ways (Exams + Assignments)
12	5	Recycle and Recovery	Sustainability	Theoretical	Several Ways (Exams + Assignments)
13	5	Introduction to Sustainability	Sustainability	Theoretical	Several Ways (Exams + Assignments)
14	5	Sustainability Activities	Sustainability	Theoretical	Several Ways (Exams + Assignments)
15	5	Mid-term Exam			Exam

2. Course Evaluation

Quizzes 10
Assignments 10
Report 5
Midterm Exam 25

Final Exam 60

3. Learning and Teaching Resources

Required textbooks (curricular books any)	1. Introduction to Environmental Engineering 4th Edition by Davis, Mackenzie, Cornwell, David [Hardcover] 2. Introduction to Environmental Engineering and Science Gilbert M. Masters Wendell P. Ela Third Edition
Main references (sources)	
Recommended books and references (scientific journals, reports…)	ENVIRONMENTALENGINEERING, EDITED BY NELSON NEMEROW, FRANKLIN J. AGARDY, PATRICK SULLIVAN, AND JOSEPH A. SALVATO
Electronic References, Websites	