

University of Mosul جامعة الموصل



First Cycle – Bachelor's Degree (B.Sc.) – Environmental Engineering

بكالوريوس - هندسة البيئة



Table of Contents

1. Overview
2. Undergraduate Modules 2024-2025
3. Contact

1. Overview

This catalogue is about the courses (modules) given by the program of Environmental Engineering to gain the Bachelor of Science degree. The program delivers (48) Modules with (6000) total student workload hours and 240 total ECTS. The module delivery is based on the Bologna Process.

نظرة عامة

يتناول هذا الدليل المواد الدراسية التي يقدمها برنامج هندسة البيئة للحصول على درجة بكالوريوس العلوم. يقدم البرنامج (48) مادة دراسية مع (6000) إجمالي ساعات حمل الطالب و 240 إجمالي وحدات أوروبية. يعتمد تقديم المواد الدراسية على عملية بولونيا.

2. Undergraduate Courses 2024-2025

Module 1

Code	Course/Module Title	ECTS	Semester
	Calculus		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 2

Code	Course/Module Title	ECTS	Semester
	Engineering Drawing		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 3

Code	Course/Module Title	ECTS	Semester
	Environmental		

	Thermodynamics		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 4

Code	Course/Module Title	ECTS	Semester
	Computer Programming		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 5

Code	Course/Module Title	ECTS	Semester
	Human Rights and Public Freedoms		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 6

Code	Course/Module Title	ECTS	Semester
	English 1		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 7

Code	Course/Module Title	ECTS	Semester
	Engineering Mathematics		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 8

Code	Course/Module Title	ECTS	Semester
	Engineering Mechanics		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 9

Code	Course/Module Title	ECTS	Semester
	Principles of Environmental Engineering		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 10

Code	Course/Module Title	ECTS	Semester
	Environmental Geology		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)

Description			

Module 11

Code	Course/Module Title	ECTS	Semester
	Statistics		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 12

Code	Course/Module Title	ECTS	Semester
	Drawing by Computer		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 13

Code	Course/Module Title	ECTS	Semester
	Fluids Mechanics		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 14

Code	Course/Module Title	ECTS	Semester
	Environmental Chemistry		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 15

Code	Course/Module Title	ECTS	Semester
	Concrete and Building Technology		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 16

Code	Course/Module Title	ECTS	Semester
	Strength of Materials		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 17

Code	Course/Module Title	ECTS	Semester
	Remote Sensing and GIS Applications		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)

Description

Module 18

Code	Course/Module Title	ECTS	Semester
	English 2		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 19

Code	Course/Module Title	ECTS	Semester
	Water Quality Engineering		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 20

Code	Course/Module Title	ECTS	Semester
	Engineering Surveying		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 21

Code	Course/Module Title	ECTS	Semester
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	Hydraulics Applications		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 22

Code	Course/Module Title	ECTS	Semester
	Engineering Hydrology		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 23

Code	Course/Module Title	ECTS	Semester
	Engineering and Numerical Analysis		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 24

Code	Course/Module Title	ECTS	Semester
	Microbiology		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 25

Code	Course/Module Title	ECTS	Semester
	Principles of Air pollution		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 26

Code	Course/Module Title	ECTS	Semester
	Water Networks		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 27

Code	Course/Module Title	ECTS	Semester
	Solid Waste Management		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 28

Code	Course/Module Title	ECTS	Semester
	Noise and Thermal Pollution		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)

Description

Module 29

Module 15			
Code	Course/Module Title	ECTS	Semester
	Soil Mechanics		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 30

Module 00			
Code	Course/Module Title	ECTS	Semester
	English 3		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 31

Code	Course/Module Title	ECTS	Semester
	Air Pollution Control		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 32

Code	Course/Module Title	ECTS	Semester
	Sewers Networks		

Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 33

Code	Course/Module Title	ECTS	Semester
	Unit Operations & Processes		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 34

Code	Course/Module Title	ECTS	Semester
	Sustainability Engineering		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 35

Code	Course/Module Title	ECTS	Semester
	Hazardous Waste Management		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 36

Code	Course/Module Title	ECTS	Semester
	Reinforced Concrete		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 37

Code	Course/Module Title	ECTS	Semester
	Design of Water Treatment Units		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 38

Code	Course/Module Title	ECTS	Semester
	Wastewater Treatment Plant Design		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 39

Code	Course/Module Title	ECTS	Semester
	Structural Design		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)

Description

Module 40

Code	Course/Module Title	ECTS	Semester
	Engineering Project Management and Economy		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 41

Code	Course/Module Title	ECTS	Semester
	Engineering Project and Technical Writing		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 42

Code	Course/Module Title	ECTS	Semester
	English 4		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 43

Code	Course/Module Title	ECTS	Semester
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	Industrial and Petroleum Liquid Waste		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 44

Code	Course/Module Title	ECTS	Semester
	Soil and Ground Water Pollution		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 45

Code	Course/Module Title	ECTS	Semester
	Estimation and Specifications		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 46

Code	Course/Module Title	ECTS	Semester
	Environmental Impact Assessment and Regulations		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

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Module 47

Code	Course/Module Title	ECTS	Semester
	Civil Drawing		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			

Module 48

Code	Course/Module Title	ECTS	Semester
	Engineering Project		
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
Description			
This section includes a description of the module, 100-150 words			

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