

Ministry of Higher Education and Scientific Research

Scientific supervision and evaluation device

Department of Quality Assurance and Academic Accreditation

Accreditation Department



# Academic Program and Course Description Guide

2025-2024



## Academic Program Description Form

**University Name:** University of Warith AL-Anbiya

**Faculty/Institute:** College of Engineering

**Scientific Department:** Civil Engineering Department

**Academic or Professional Program Name:** Bachelor's in Civil Engineering

**Final Certificate Name:** Bachelor of Civil Engineering

**Academic Degree System:** Semester System & Bologna Process

**Description Preparation Date:** 2025/8/2

**File Completion Date:** 2025/8/2

Signature :

Head of Department Name: Dr.Qassim Ali

Date: 25/ 5 /2025

Signature:

Scientific Associate Name: Dr. Hassan. T.Hashim

Date: 25/ 5 /2025

The file is checked by: Dr. Salam Al-Rbeawi

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance

Department:

Date: 25/ 5 /2025

Signature:

**Approval of the Dean**

أ.م.د. حسين هادي حسين  
عميد كلية الهندسة



1. Program Vision	The Civil Engineering Department aspires to be a leading center of scientific and research excellence, driving innovation in civil engineering fields and applications, while adhering to the highest standards of quality in engineering education within its specialization.
2. Program Mission	<ol style="list-style-type: none"> <li>1. Graduating engineering professionals with well-rounded leadership qualities, high skills, and strong professional ethics to meet the needs of both civil and military institutions related to the field of specialization.</li> <li>2. Conducting research and studies, transferring knowledge, and localizing technology to serve and advance the community.</li> <li>3. Providing a scientific environment that fosters creativity, supports outstanding and talented individuals, invests in their potential, enhances lifelong learning skills, and serves society within the scope of specialization.</li> <li>4. Offering educational, academic, and professional guidance while strengthening national identity, fostering a sense of belonging, and loyalty to the country.</li> </ol>
3. Academic Program Objectives	<ol style="list-style-type: none"> <li>1. <b>Excellence in Professional Practice:</b> Achieving distinguished professional practice in civil engineering with the ability for self-learning, and developing and applying technical knowledge to solve engineering problems and deliver innovative and efficient designs.</li> <li>2. <b>Enhancing Technical and Personal Skills:</b> Strengthening technical expertise and personal skills necessary for career advancement, including assuming leadership, supervisory, and administrative roles in civil engineering projects.</li> <li>3. <b>Commitment to Ethics and Professionalism:</b> Adhering to high ethical standards and professional behavior in performing engineering duties, considering economic, social, and environmental impacts.</li> <li>4. <b>Continuous Learning and Research Advancement:</b> Promoting continuous learning and enhancing research capabilities by pursuing higher education and engaging in advanced research within leading academic and industrial institutions in civil engineering.</li> </ol>



#### 4. Program Accreditation

We strive to obtain programmatic accreditation in the near future as part of our strategic plans aimed at enhancing the quality of academic programs and aligning them with national and international accreditation standards.

#### 5. Other External Influences

There are currently no external sponsors or supporters for the program. The program relies entirely on the resources and capabilities available within the university (libraries, laboratories, software, and infrastructure).

#### 6. Program Structure

Notes	Percentage	Credit Units	Number of Courses	Structure Component
	7%	12	5	Institutional Requirements
	21.5%	37	7	College Requirements
First and Second and third Stages (Bologna Pathway)	71.5%	123	44	Departmental Requirements
		Fulfilled	Yes	Summer Training
				Other



7. Program Description				
Credit Hours		Course Name	Course Code	Year/Level
practical	theoretical			
	3	English Language I	UOW011	First level - First Semester
	2	Human Rights and Democracy	UOW012	
	5	Mathematics I	ENG013	
3	1	Engineering Drawing	ENG014	
3	4	Physics and Workshops	ENG015	
2	4	Building Materials	ENG016	
	2	Arabic Language	UOW021	First level - Second Semester
2	1	Computer Science	UOW022	
	5	Mathematics II	ENG023	
	6	Engineering Mechanics	CIV024	
	6	Statistical Applications in Civil Engineering	CIV025	
	4	Engineering Geology	CIV026	
	2	English Language II	UOW031	Second level - First Semester
	4	Mathematics III	ENG032	
	4	Strength of Materials I	CIV033	
2	2	Concrete Technology I	CIV034	
2	3	Engineering Surveying I	CIV035	
2	6	Fluid Mechanics	CIV036	
4	2	Computer Programming	ENG041	Second level - second Semester
2	4	Building Construction	CIV042	
	4	Strength of Materials II	CIV043	
2	4	Concrete Technology II	CIV044	
2	3	Engineering Surveying II	CIV045	



1	2	Engineering Drawing with AutoCAD	CIV046	
2	2	Engineering Analysis	ENG051	Third level - First Semester
1	3	Theory of Structure I	CIV052	
2	2	Soil Mechanics I	CIV053	
2	3	Design of Reinforced Concrete I	CIV054	
2	2	Traffic Engineering	CIV055	
0	4	Project Management & Engineering Economy	CIV056	
1	4	Numerical Methods and Statistics	ENG061	Third level - second Semester
1	3	Theory of Structure II	CIV062	
2	2	Soil Mechanics II	CIV063	
2	3	Design of Reinforced Concrete II	CIV064	
2	2	Water Resources Engineering	CIV065	
0	2	Engineering Ethics	UOW066	
	4	Foundation Engineering I	WCV-41-01	Fourth Stage - First Semester
1	3	Environmental and Sanitary Engineering I	WCV-41-02	
1	2	Road Engineering I	WCV-41-03	
	3	Steel Structure Design I	WCV-41-04	
	3	Hydrology I	WCV-41-05	
	3	Reinforced Concrete III	WCV-41-06	
	2	Hydraulic Structures I	WCV-41-07	
1	2	Construction Methods I	WCV-41-08	
4		Engineering Project I	WCV-41-09	
	4	Foundation Engineering II	WCV-42-01	Fourth Stage - second Semester
1	3	Environmental and Sanitary Engineering II	WCV-42-02	
1	2	Road Engineering II	WCV-42-03	
	3	Steel Structure Design II	WCV-42-04	
	3	Hydrology II	WCV-42-05	
	3	Reinforced Concrete IV	WCV-42-06	
	2	Hydraulic Structures II	WCV-42-07	
1	2	Construction Methods II	WCV-42-08	
4		Engineering Project II	WCV-42-09	



## 8. Expected Learning Outcomes for the Program

### Skills

1. An ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design process to produce solutions that meet specified needs with consideration of public health, safety, and global, cultural, social, environmental, economic, and other factors as appropriate to the discipline.

### Knowledge

1. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw a conclusion.
2. An ability to communicate effectively with a range of audiences.
3. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
4. An ability to recognize the ongoing need to acquire new knowledge, to choose appropriate learning strategies, and to apply this knowledge.

### Ethics

1. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments which must consider the impact of engineering solutions in global, economic, environmental, and social context.

## 9. Teaching and Learning Strategies

- Lectures
- Laboratories
- Workshops
- Methodical Training
- Scientific Field Visits

## 10. Assessment Methods

- Written Exams
- Quizzes
- Writing Scientific Reports
- Homework Assignments
- Scientific Seminars
- Graduation Project Defense Committees



11. Faculty				
Faculty Members				
Academic Rank	Specialization		Number of the teaching staff	
	General	Special	Staff	Lecturer
Asst. Prof. Dr. Hussein Hadi Hussein		√	√	
Asst. Prof. Dr. Qasim Ali Hussein		√	√	
Asst. Prof. Dr. Wael Asim Mohammed Hussein		√		√
Lect. Dr. Mustafa Karim Hamza		√		√
Lect. Dr. Hadeel Jaloub		√		
Lect. Dr. Salam Razzaq		√		√
Asst. Prof. Dr. Anmar Faleh Deikan		√		√
Lect. Dr. Mustafa Naeem Kareem		√		√
Lect. Dr. Waleed Khalil		√		√
Lect. Dr. Israa Hassan		√		√
Asst. Lect. Jasim Mohammed Alawi		√		√
Asst. Lect. Abdullah Nasser Jawad	√			√
Asst. Lect. Noorulhuda Kadhim Hussein		√	√	
Asst. Lect. Hiba Abdul Ameer Saleh		√	√	





Asst. Lect. Israa Mahdi Kadhim		√	√	
Asst. Lect. Wurood Hussein Ghadhban		√	√	
Asst. Lect. Thaer Taher Atshan		√	√	
Asst. Lect. Safaa Sabri Mohammed		√		√
Asst. Lect. Ghadeer Haitham Hassan		√		√
Asst. Lect. Zahraa Kareem Kadhem		√	√	
Asst. Lect. Sally Mowafaq Talib		√	√	
Asst. Lect. Abdul Rasool Thamer Abdul Rasool	√			√
Asst. Lect. Zainab Naeem Ghazi		√	√	
Asst. Lect. Fatima Jamal Hussein		√		√
Asst. Lect. Zahraa Khalil Hussein		√	√	
Asst. Lect. Mohammed Ali Aziz	√			√
Asst. Lect. Ghazi Jalal Kaeshesh		√		√
Asst. Lect. Mohammed Khairallah Mughir		√		√



## 12. Admission Criteria

- High school graduate from the scientific branch.
- Admission requirements for students are based on the guidelines issued by the Ministry of Higher Education and Scientific Research (Central Admission).
- Must be medically fit for the chosen specialization.
- Compliance with the specific admission criteria for the department.
- Student choices ranked by preference.
- High school graduation average required for admission.
- The department's capacity to accommodate students.

## 13. Key Information Sources about the Program

- Accredited sources in global universities.
- Local trends and directions.
- Market needs.
- Studies and surveys.
- Specialized seminars and workshops with relevant stakeholders.

## 14. Program Development Plan

### Objective

To enhance the quality of the academic program to align with global standards and meet labor market demands while achieving academic accreditation.

### Key Steps

- Analyze the Current Situation:
- Evaluate the curriculum and available resources.
- Gather feedback from students, alumni, and employers.

### Develop a Development Plan:

- Update the curriculum by adding new courses and improving practical skills.
- Organize training sessions for faculty members.
- Enhance infrastructure (labs and technologies).

### Implementation:

- Gradually apply the updated plan.
- Establish partnerships with industrial institutions.



- Improve student assessment mechanisms.

#### Evaluation and Follow-Up:

- Generate periodic performance reports.
- Introduce continuous improvements based on feedback.

#### Timeline

- Situation Analysis: 3 months.
- Planning: 3 months.
- Implementation: 6-12 months.

Follow-Up: Ongoing.

#### Performance Indicators

- Student and alumni satisfaction.
- Employment rate.
- Academic accreditation.

## Program Skills Outline

### المرحلة الأولى – First Level

Year/Level	Course Code	Course Name	Basic	S1	S2	K1	K2	K3	K4	E1
1st – 1st Sem.	UOW011	English Language I	Basic		✓		✓			
1st – 1st Sem.	UOW012	Human Rights and Democracy	Basic				✓			✓
1st – 1st Sem.	ENG013	Mathematics I	Basic	✓		✓				
1st – 1st Sem.	ENG014	Engineering Drawing	Basic	✓	✓			✓		
1st – 1st Sem.	ENG015	Physics and Workshops	Basic	✓		✓			✓	
1st – 1st Sem.	ENG016	Building Materials	Basic		✓	✓			✓	✓
1st – 2nd Sem.	UOW021	Arabic Language	Basic		✓		✓			
1st – 2nd Sem.	UOW022	Computer Science	Basic	✓	✓	✓			✓	
1st – 2nd Sem.	ENG023	Mathematics II	Basic	✓		✓				
1st – 2nd Sem.	CIV024	Engineering Mechanics	Basic	✓	✓	✓		✓		
1st – 2nd Sem.	CIV025	Statistical Applications	Basic	✓		✓	✓		✓	
1st – 2nd Sem.	CIV026	Engineering Geology	Basic		✓	✓			✓	✓

■ المرحلة الثانية – Second Level

Year/Level	Course Code	Course Name	Basic	S1	S2	K1	K2	K3	K4	E1
2 <sup>nd</sup> – 1 <sup>st</sup> Sem.	UOW031	English Language II	Basic		✓		✓			
2 <sup>nd</sup> – 1 <sup>st</sup> Sem.	ENG032	Mathematics III	Basic	✓		✓				
2 <sup>nd</sup> – 1 <sup>st</sup> Sem.	CIV033	Strength of Materials I	Basic	✓	✓	✓			✓	
2 <sup>nd</sup> – 1 <sup>st</sup> Sem.	CIV034	Concrete Technology I	Basic	✓	✓	✓		✓	✓	✓
2 <sup>nd</sup> – 1 <sup>st</sup> Sem.	CIV035	Engineering Surveying I	Basic	✓	✓	✓		✓		
2 <sup>nd</sup> – 1 <sup>st</sup> Sem.	CIV036	Fluid Mechanics	Basic	✓	✓	✓			✓	
2 <sup>nd</sup> – 2 <sup>nd</sup> Sem.	ENG041	Computer Programming	Basic	✓	✓	✓			✓	
2 <sup>nd</sup> – 2 <sup>nd</sup> Sem.	CIV042	Building Construction	Basic	✓	✓	✓		✓		✓
2 <sup>nd</sup> – 2 <sup>nd</sup> Sem.	CIV043	Strength of Materials II	Basic	✓	✓	✓			✓	
2 <sup>nd</sup> – 2 <sup>nd</sup> Sem.	CIV044	Concrete Technology II	Basic	✓	✓	✓		✓	✓	✓
2 <sup>nd</sup> – 2 <sup>nd</sup> Sem.	CIV045	Engineering Surveying II	Basic	✓	✓	✓		✓		
2 <sup>nd</sup> – 2 <sup>nd</sup> Sem.	CIV046	Engineering Drawing AutoCAD	Basic	✓	✓			✓		

■ المرحلة الثالثة – Third Level

Year/Level	Course Code	Course Name	Basic	S1	S2	K1	K2	K3	K4	E1
3 <sup>rd</sup> – 1 <sup>st</sup> Sem.	ENG051	Engineering Analysis	Basic	✓	✓	✓			✓	
3 <sup>rd</sup> – 1 <sup>st</sup> Sem.	CIV052	Theory of Structures I	Basic	✓	✓	✓		✓	✓	
3 <sup>rd</sup> – 1 <sup>st</sup> Sem.	CIV053	Soil Mechanics I	Basic	✓	✓	✓			✓	✓
3 <sup>rd</sup> – 1 <sup>st</sup> Sem.	CIV054	Design of RC I	Basic	✓	✓	✓		✓	✓	✓
3 <sup>rd</sup> – 1 <sup>st</sup> Sem.	CIV055	Traffic Engineering	Basic	✓	✓	✓		✓		✓
3 <sup>rd</sup> – 1 <sup>st</sup> Sem.	CIV056	Project Mgmt & Economy	Basic	✓	✓	✓	✓	✓	✓	✓
3 <sup>rd</sup> – 2 <sup>nd</sup> Sem.	ENG061	Numerical Methods & Stats	Basic	✓	✓	✓			✓	
3 <sup>rd</sup> – 2 <sup>nd</sup> Sem.	CIV062	Theory of Structures II	Basic	✓	✓	✓		✓	✓	
3 <sup>rd</sup> – 2 <sup>nd</sup> Sem.	CIV063	Soil Mechanics II	Basic	✓	✓	✓			✓	✓
3 <sup>rd</sup> – 2 <sup>nd</sup> Sem.	CIV064	Design of RC II	Basic	✓	✓	✓		✓	✓	✓
3 <sup>rd</sup> – 2 <sup>nd</sup> Sem.	CIV065	Water Resources Eng.	Basic	✓	✓	✓			✓	✓
3 <sup>rd</sup> – 2 <sup>nd</sup> Sem.	UOW066	Engineering Ethics	Basic				✓	✓		✓

■ المرحلة الرابعة – Fourth Level

Year/Level	Course Code	Course Name	Basic	S1	S2	K1	K2	K3	K4	E1
4th – 1st Sem.	WCV-41-01	Foundation Eng. I	Basic	✓	✓	✓			✓	✓
4th – 1st Sem.	WCV-41-02	Env. & Sanitary Eng. I	Basic	✓	✓	✓		✓	✓	✓
4th – 1st Sem.	WCV-41-03	Road Engineering I	Basic	✓	✓	✓		✓		✓
4th – 1st Sem.	WCV-41-04	Steel Structure Design I	Basic	✓	✓	✓		✓	✓	✓
4th – 1st Sem.	WCV-41-05	Hydrology I	Basic	✓	✓	✓			✓	✓
4th – 1st Sem.	WCV-41-06	Reinforced Concrete III	Basic	✓	✓	✓		✓	✓	✓
4th – 1st Sem.	WCV-41-07	Hydraulic Structures I	Basic	✓	✓	✓			✓	✓
4th – 1st Sem.	WCV-41-08	Construction Methods I	Basic	✓	✓	✓		✓	✓	✓
4th – 1st Sem.	WCV-41-09	Engineering Project I	Basic	✓	✓	✓	✓	✓	✓	✓
4th – 2nd Sem.	WCV-42-01	Foundation Eng. II	Basic	✓	✓	✓			✓	✓
4th – 2nd Sem.	WCV-42-02	Env. & Sanitary Eng. II	Basic	✓	✓	✓		✓	✓	✓
4th – 2nd Sem.	WCV-42-03	Road Engineering II	Basic	✓	✓	✓		✓		✓
4th – 2nd Sem.	WCV-42-04	Steel Structure Design II	Basic	✓	✓	✓		✓	✓	✓
4th – 2nd Sem.	WCV-42-05	Hydrology II	Basic	✓	✓	✓			✓	✓



4th – 2nd Sem.	WCV-42- 06	Reinforced Concrete IV	Basic	✓	✓	✓		✓	✓	✓
4th – 2nd Sem.	WCV-42- 07	Hydraulic Structures II	Basic	✓	✓	✓			✓	✓
4th – 2nd Sem.	WCV-42- 08	Construction Methods II	Basic	✓	✓	✓		✓	✓	✓
4th – 2nd Sem.	WCV-42- 09	Engineering Project II	Basic	✓	✓	✓	✓			