



University of Warith Al-Anbiyaa/ Collage of Engineering



**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**



## Aacademic 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



1. Program Vision
<p>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.</p>
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	UOK066	
	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

### Knowledge

1. Application of Knowledge:
  - Ability to apply fundamentals of mathematics, science, and engineering to solve complex problems in the engineering specialization.
2. Engineering Problem Solving:
  - Skills to identify engineering problems, systematically formulate solutions, and use innovative methods to address them.
3. Use of Modern Tools:
  - Ability to select and employ modern technologies, advanced engineering skills, and software tools or equipment necessary for professional practice.
4. Adherence to Professional Standards:
  - Understanding and applying engineering codes and professional specifications (such as standards and regulations) to ensure the safety and performance of engineering projects in compliance with international and local standards.

### Skills

1. Proficiency in Software and Engineering Tools:
  - Enable students to become familiar with computer and mathematical software used in project design and problem-solving, with an understanding of the theoretical foundations of their applications.
2. Problem Solving During Execution:
  - Develop analytical thinking skills and decision-making abilities to address issues that may arise during the execution of engineering works, reflecting adaptability to practical realities.
3. Report Writing and Blueprint Reading:
  - Equip students with the ability to prepare scientific reports accurately and professionally, along with the skill to read and interpret engineering drawings to facilitate communication among team members.
4. Keeping Up with Technological Advances:
  - Enhance students' awareness of the latest developments in engineering materials and execution methods, ensuring continuous knowledge updates and staying at the forefront of modern engineering practices.

### Values

1. Lifelong Learning:
  - Ability to recognize the ongoing need for additional knowledge, identify, evaluate, integrate, and appropriately apply it.
2. Teamwork and Collaboration:
  - Ability to work effectively within teams that set objectives, plan tasks, adhere to deadlines, and analyze risks and uncertainties.



9. Teaching and Learning Strategies
<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Laboratories</li> <li>• Workshops</li> <li>• Methodical Training</li> <li>• Scientific Field Visits</li> </ul>

10. Assessment Methods
<ul style="list-style-type: none"> <li>- Written Exams</li> <li>- Quizzes</li> <li>- Writing Scientific Reports</li> <li>- Homework Assignments</li> <li>- Scientific Seminars</li> <li>- Graduation Project Defense Committees</li> </ul>

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 Map

The Program Skills Map illustrates the alignment between the program's courses and the expected learning outcomes (ELOs). The coverage levels are defined as follows:

- **H (High Coverage)**
- **M (Medium Coverage)**
- **L (Low Coverage)**

### First Stage

Learning Outcomes / Courses	English I	Human Rights	Mathematics I	Engineering Drawing	Physics & Workshops	Building Materials	Arabic Language	Computer Science
Knowledge	M	H	H	H	H	H	H	M
Engineering Problem-Solving	L	M	H	H	H	H	M	M
Use of Modern Tools	L	L	M	H	H	M	L	H
Professional Standards	L	H	M	M	M	M	H	M
Programming Skills	M	L	M	M	M	M	L	H
Teamwork	M	M	L	M	M	M	M	M

[illegible]



Use of Modern Tools	M	M	M	H	M	M	H	M	M	H
Professional Standards	M	H	M	H	H	H	M	H	M	H
Programming Skills	H	M	M	M	M	M	H	M	M	M
Teamwork	M	M	M	H	M	H	M	M	M	H

### Fourth Stage

Learning Outcomes / Courses	Foundation Engineering I	Sanitary Engineering I	Road Engineering I	Steel Structures I	Hydrology I	Hydraulic Structures I	Construction Methods I
Knowledge	H	H	H	H	H	H	H
Engineering Problem-Solving	H	H	H	H	H	H	H
Use of Modern Tools	M	M	M	H	H	H	H
Professional Standards	H	H	H	H	H	H	H
Programming Skills	M	M	M	M	M	M	M
Teamwork	M	M	H	M	M	M	H