

1st Year

➤ First level

Course No.	Course title	Credit Units	Contact Hours		Prerequisite	
			Lec.	Lb.	Course No.	Course title
999805-2	Intensive English Language (1+2)	2	-	12	-	-
990111-2	Fundamentals of Islamic Culture	2	2	-	-	-
990115-2	History of the Kingdom	2	2	-	-	-
803201-3	Introduction to Computer Programming	3	2	3	-	-
202110-3	Mathematics (1)	3	3	--	-	-
204102-3	General Chemistry	3	2	3	-	-
Total		15	13	18		

➤ Second level

Course No.	Course title	Credit Units	Contact Hours		Prerequisite	
			Lec.	Lb.	Course No.	Course title
990311-2	University Study Skills	2	2	-	-	-
990211-2	Arabic Language Skills	2	2	-	-	-
999806-2	Intensive English Language (3 +4)	2	-	12	999805-2	Intensive English Language (1+2)
203205-4	Physics	4	2	4	202110-3	Mathematics (1)
202120-3	Mathematics (2)	3	3	-	202110-3	Mathematics (1)
8021201-2	Engineering Drawing	2	4	-	-	-
Total		16	13	16		

University Requirement

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Department Requirement

2nd Year

➤ Third level

Course No.	Course title	Credit Units	Contact Hours		Prerequisite	
			Lec.	Lb.	Course No.	Course title
999807-2	English for Specific Purposes (1)	2	-	2	999806-2	Intensive English Language (3 +4)
2022101-3	Multi Variable Calculus	3	4	-	202120-3	Mathematics (2)
8022101-3	Introduction to Engineering Design (1)	3	4	-	999806-2	Intensive English Language (3 +4)
8012101-2	Fundamentals of Engineering Economy	2	3	-	-	-
8012102-2	Hydraulics (1)	2	2	3	203205-4	Physics
8012103-3	Statics	3	3	-	202120-3	Mathematics (2)
Total		15	16	5		

➤ Fourth level

Course No.	Course title	Credit Units	Contact Hours		Prerequisite	
			Lec.	Lb.	Course No.	Course title
990112-2	Islamic Culture (Morals and Values)	2	2	-	990111-2	Fundamentals of Islamic Culture
2022102-4	Mathematical Methods	4	5	-	202120-3	Mathematics (2)
8012201-2	Civil Drawing	2	2	3	8021201-2	Engineering Drawing
8012202-3	Structural Analysis (1)	3	4	-	8012103-3	Statics
8012203-2	Technical Reports	2	3	-	999807-2	English for Specific Purposes (1)
8012204-2	Hydraulics (2)	2	2	3	8012102-2	Hydraulics (1)
8012205-2	Surveying (1)	2	2	3	202110-3	Mathematics (1)
Total		17	20	9		

University Requirement

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Department Requirement

3rd Year

➤ Fifth level

Course No.	Course title	Credit Units	Contact Hours		Prerequisite	
			Lec.	Lb.	Course No.	Course title
999809-2	Elective English Language (1)	2	2	-	-	-
990511-2	Elective University (1)	2	2	-	-	-
2023103-4	Differential Equations	4	4	-	2022101-3	Multi Variable Calculus
2023104-2	Linear Algebra	2	3	-	202110-3	Mathematics (1)
8013101-2	Engineering Geology	2	3	-	203205-4	Physics
8013102-2	Surveying 2	2	2	3	8012205-2	Surveying (1)
8013103-2	Structural analysis (2)	3	2	2	8012202-3	Structural Analysis (1)
Total		17	18	5		

➤ Sixth level

Course No.	Course title	Credit Units	Contact Hours		Prerequisite	
			Lec.	Lb.	Course No.	Course title
990313-2	Islamic Sciences (3)	2	2	-	990112-2	Islamic Culture (Morals and Values)
2024116-3	Probability and Statistics	3	4	-	202120-3	Mathematics (2)
2023206-3	Numerical analysis	3	4	-	2023103-4	Differential Equations
8032101-3	Basics of Electrical Circuits	3	3	2	203205-4	Physics
8013201-2	Geotechnical Engineering (1)	2	2	2	8013101-2	Engineering Geology
8013202-2	Water Resources Engineering	2	3	-	8012204-2	Hydraulics (2)
8013203-3	Properties and Strength of Construction Materials	3	3	2	8012202-3	Structural Analysis (1)
Total		18	21	6		

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4th Year

➤ Seventh level

Course No.	Course title	Credit Units	Contact Hours		Prerequisite	
			Lec.	Lb.	Course No.	Course title
990414-2	Islamic Sciences (4)	2	2	-	990313-2	Islamic Sciences (3)
8014101-3	Design of Steel Structures (1)	3	4	-	8013103-2	Structural analysis (2)
8014102-2	Geotechnical Engineering (2)	2	2	2	8013201-2	Geotechnical Engineering (1)
8014103-2	Concrete Technology	2	3	2	8013203-3	Properties and Strength of Construction Materials
8014104-3	Design of Reinforced Concrete Structures (1)	3	4	-	8013103-2	Structural analysis (2)
8014105-2	Transportation and Traffic Engineering	2	3	-	2024116-3	Probability and Statistics
Total		14	18	4		

➤ Eighth levels

Course No.	Course title	Credit Units	Contact Hours		Prerequisite	
			Lec.	Lb.	Course No.	Course title
8014201-3	Design of Reinforced Concrete Structures (2)	3	4	-	8014104-3	Design of Reinforced Concrete Structures (1)
8014202-3	Foundation engineering	2	3	-	8014102-2	Geotechnical Engineering (2)
					8014104-3	Design of Reinforced Concrete Structures (1)
8014203-3	Highways engineering	3	3	2	8014105-2	Transportation and Traffic Engineering
8014204-2	Construction Methods and Equipment	2	3	-	8014103-2	Concrete Technology
8014205-3	Sanitary and environmental engineering	3	4	-	8012204-2	Hydraulics (2)
8014206-2	Building construction	2	3	-	8012201-2	Civil Drawing
Total		15	20	2		

University Requirement

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Department Requirement

➤ **Summer Session**

Course No.	Course title	Credit Units	Actual hours	Prerequisite
8014301-2	Summer training	2	8 weeks	Department approval

5th Year

➤ **Ninth level**

Course No.	Course title	Credit Units	Contact Hours		Prerequisite	
			Lec.	Lb.	Course No.	Course title
8015101-3	Project (1)	3	2	4	Department approval	
8015102-2	Contracts, Specifications and Quantity Surveying	2	3	-	8014206-2	Building construction
8015103-2	Projects Management	2	3	-	8014204-2	Construction Methods and Equipment
8015104-2	Railways engineering	2	3	-	8014105-2	Transportation and Traffic Engineering
Elective	Elective course (1)	2	3	-	As shown in the List of Electives	
Elective	Elective course (2)	2	3	-		
Total		13	17	4		

➤ **Tenth level**

Course No.	Course title	Credit Units	Contact Hours		Prerequisite	
			Lec.	Lb.	Course No.	Course title
8015101-3	Project (2)	3	2	4	8015101-3	Project (1)
8015202-2	Design of Steel Structures (2)	2	3	-	8014101-3	Design of Steel Structures (1)
8015203-2	Engineering Ethics	2	2	-	-	-
8015104-2	Sustainable Infrastructures Projects	2	3	-	8013102-2	Surveying 2
Elective	Elective course (3)	2	3	-	As shown in the List of Electives	
Elective	Elective course (4)	2	3	-		
Total		13	16	4		

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Department Requirement

List of Elective Courses

Course No.	Course title	Credit Units	Contact Hours		Prerequisite	
			Lec.	Lb.	Course No.	Course title
8015301-2	Special Topics in Public Works Engineering	2	3	-	Department approval	
8015302-2	Advanced Highways Engineering	2	3	-	8014203-3	Highways engineering
8015303-2	Advanced Transportation Engineering	2	3	-	8014105-2	Transportation and Traffic Engineering
8015304-2	Remote Sensing	2	3	-	8013102-2	Surveying 2
8015305-2	Special Topics in Highways Engineering	2	3	-	8014203-3	Highways engineering
8015306-2	Photogrammetric Surveying	2	3	-	8013102-2	Surveying 2
8015307-2	Geographic Information System	2	3	-	8013102-2	Surveying 2
8015308-2	Engineering applications of surveying	2	3	-	8013102-2	Surveying 2
8015309-2	Airports Engineering	2	3	-	8014203-3	Highways engineering
8015310-2	Special Topics in Surveying	2	3	-	8013102-2	Surveying 2
8015311-2	Advanced Traffic Engineering	2	3	-	8014105-2	Transportation and Traffic Engineering
8015312-2	Reinforced Concrete 3	2	3	-	8014201-3	Design of Reinforced Concrete Structures (2)
8015313-2	Inspection, Maintenance and Strengthening of Structures	2	3	-	8014103-2	Concrete Technology
8015314-2	Advanced Construction Management Engineering	2	3	-	8015103-2	Projects Management
8015315-2	Concrete Bridges	2	3	-	8014201-3	Design of Reinforced Concrete Structures (2)
8015316-2	Foundation on Problematic Soils	2	3	-	8014102-2	Geotechnical Engineering (2)
8015317-2	Design of Composite Structures	2	3	-	8014201-3	Design of Reinforced Concrete Structures (2)

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8015318-2	Dynamics of Structures and Earthquake Engineering	2	3	-	8013103-2	Structural analysis (2)
8015319-2	Applications of Nanotechnology in Civil Engineering	2	3	-	8014103-2	Concrete Technology
8015320-2	Deep and Special Foundations	2	3	-	8014202-3	Foundation engineering
8015321-2	Special Topics in Construction Engineering	2	3	-	Department approval	
8015322-2	Harbor Engineering and Coastal Protection	2	3	-	8012204-2	Hydraulics (2)
8015323-2	Hydrology of Groundwater	2	3	-	8013202-2	Water Resources Engineering
8015324-2	Design of modern Irrigation Systems	2	3	-	8013202-2	Water Resources Engineering
8015325-2	Buildings Sanitary Installation	2	3	-	8014205-3	Sanitary and environmental engineering
8015326-2	Advanced Hydraulics	2	3	-	8012204-2	Hydraulics (2)
8015327-2	Dams Engineering	2	3	-	8012204-2	Hydraulics (2)
8015328-2	Special Topics in Water Resources Engineering	2	3	-	Department approval	
8015329-2	Hydraulic Modelling	2	3	-	8012204-2	Hydraulics (2)

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