

Degree Plan

Degree : Bachelor	Faculty : Engineering	Plan hrs : ١٥٥
Semester : ٣٨١	Dept : Mechanical Engineering	Plan Type : Main
Edition : ٣٨	Major : ٨٠٢٠١ Science in Mechanical Engineering	Gender : All

Group : إجبارية (٢٠)

First					
code	Course Name	Hr.	requisite	Year	Activities Desc
١٠٥١١٥-٢	History of the Kingdom	٢	-	-	Theioritical (٢)
٩٩٠١١١-٢	Fundamentals of Islamic Culture	٢	-	-	Theioritical (٢)
٢٠٢١١٠-٣	Mathematics (١)	٣	-	-	Theioritical (٣)
٢٠٤١٠٢-٣	General Chemistry	٣	-	-	Theioritical (٢), Practical (١,٥)
٨٠٢٢٠١-٣	Introduction to Computer Programming	٣	-	-	Theioritical (٢), (٣)
٩٩٩٨٠٥-٢	Intensive English Intensive (١)	٢	-	-	(١٢)
Total					١٥

Second					
٢٠٢١٢٠-٣	Mathematics (٢)	٣	٢٠٢١١٠-٣-S	-	Theioritical (٣)
٢٠٣٢٠٥-٤	Physics	٤	٢٠٢١١٠-٣-S	-	Theioritical (٣), Practical (١,٥)
٨٠٢١٢٠١-٢	Engineering Drawing	٢	-	-	Theioritical (٤)
٩٩٠٢١١-٢	Arabic Language Skills	٢	-	-	Theioritical (٢)
٩٩٠٣١١-٢	University Study Skills	٢	-	-	Theioritical (٢)
٩٩٩٨٠٦-٢	Intensive English Intensive (٢)	٢	-	-	(١٢)
Total					١٥

Third					
٢٠٢٢١٠١-٣	Multi Variable Calculus	٣	٢٠٢١٢٠-٣-S	-	Theioritical (٤)
٨٠١٢١٠١-٢	Fundaments of Engineering Economy	٢	-	-	Theioritical (٣)
٨٠١٢١٠٣-٣	Statics	٣	٢٠٢١٢٠-٣-S	-	Theioritical (٣)
٨٠٢٢١٠١-٣	Introduction to Engineering Design ١	٣	٩٩٩٨٠٦-٢-S	-	Theioritical (٤)
٨٠٣٢١٠١-٣	Basics of Electrical Circuits	٣	٢٠٢٢٠٥-٤-S	-	Theioritical (٣), Practical (١)
٩٩٩٨١٦-٢		٢	-	-	(٣)
Total					١٦

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Forth					
code	Course Name	Hr.	requisite	Year	Activities Desc
٩٩٠١١٢-٢	Islamic Culture (Morals and Values)	٢	٩٩٠١١١-٢-S	-	Theioritical (٢)
٢٠٢٢١٠٢-٤	Mathematical Methods	٤	٢٠٢٢١٠١-٣-S	-	Theioritical (٥)
٨٠٢٢٢٠١-٢	Production Technology	٢	-	-	Theioritical (٢), Practical (١,٥)
٨٠٢٢٢٠٢-٢	Introduction to Engineering Design ٢	٢	٨٠٢٢١٠١-٣-S	-	Theioritical (٤)
٨٠٢٢٢٠٣-٢	Dynamics	٣	٨٠١٢١٠٣-٣-S	-	Theioritical (٣)
٨٠٢٢٢٠٤-٢	Mechanical Drawing	٢	٨٠٢١٢٠١-٢-S	-	Theioritical (٤)
٨٠٢٢٢٠٥-٢	Thermodynamics	٣	٢٠٢٢٠٥-٤-S	-	Theioritical (٤)
Total					١٨

Fifth					
٢٠٢٣١٠٣-٤	Differential Equations	٤	٢٠٢٢١٠١-٣-S	-	Theioritical (٤)
٢٠٢٣١٠٤-٢	Linear Algebra	٢	٢٠٢١٢٠٣-S	-	Theioritical (٣)
٨٠٢٣١٠١-٣	Mechanics of Machines	٣	٨٠٢٢٢٠٣-٣-S	-	Theioritical (٤)
٨٠٢٣١٠٢-٣	Materials Science	٣	٢٠٤١٠٢-٣-S	-	Theioritical (٤)
Total					١٢

Sixth					
٩٩٠٣١٣-٢	Islamic Culture (٣)	٢	٩٩٠١١٢-٢-S	-	Theioritical (٢)
٢٠٢٣٢٠٦-٣	Numerical Analysis	٣	٢٠٢٣١٠٣-٤-S	-	Theioritical (٤)
٨٠٢٣٢٠١-٣	Mechanics of Materials	٣	٢٠٢٣١٠٢-٤-S ٨٠٢٣١٠٢-٣-S	-	Theioritical (٤)
٨٠٢٣٢٠٢-٣	Mechanical Vibrations	٣	٨٠٢٢٢٠٣-٣-S ٢٠٢٣١٠٣-٤-S	-	Theioritical (٤)
٨٠٢٣٢٠٣-١	Mechanical Engineering Lab ١	١	٨٠٢٣١٠٢-٣-S ٨٠٢٢٢٠٥-٣-S	-	Practical (١,٥)
٨٠٢٣٢٠٤-٢	Fluid Mechanics	٣	٢٠٢٢٠٥-٤-S	-	Theioritical (٤)
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Seventh

code	Course Name	Hr.	requisite	Year	Activities Desc
٩٩٠٤١٤-٢	Islamic Culture (٤)	٢	٩٩٠٣١٣-٢-S	-	Theioritical (٢)
٢٠٢٤١١٦-٣	Probability and Statistics	٣	٢٠٢١٢٠-٣-S	-	Theioritical (٤)
٨٠٢٤١٠١-٣	Manufacturing Processes	٣	٨٠٢٢٢٠١-٢-S ٨٠٢٣١٠٢-٣-S	-	Theioritical (٤)
٨٠٢٤١٠٢-٣	Heat Transfer	٣	٨٠٢٢٢٠٥-٣-S ٢٠٢٣٢٠٦-٣-S	-	Theioritical (٤)
٨٠٢٤١٠٣-٣	System Dynamics and Control	٣	٨٠٢٣٢٠٢-٣-S ٨٠٢٣١٠١-٣-S	-	Theioritical (٤)
٨٠٢٤١٠٤-٣	Machine Elements Design	٣	٨٠٢٢٢٠٤-٢-S ٨٠٢٣٢٠١-٣-S	-	Theioritical (٤)
Total					١٧

Eighth

٨٠٢٤٢٠١-٣	Hydraulic Machines	٣	٨٠٢٣٢٠٤-٣-S	-	Theioritical (٤)
٨٠٢٤٢٠٢-٣	Refrigeration and Air Conditioning	٣	٨٠٢٢٢٠٥-٣-S	-	Theioritical (٤)
٨٠٢٤٢٠٣-٣	Measurements & Measuring Instruments	٣	٨٠٢٣٢٠٤-٣-S	-	Theioritical (٤)
٨٠٢٤٢٠٤-١	Mechanical Engineering Lab ١	١	٨٠٢٤١٠٢-٣-S ٨٠٢٤١٠٣-٣-S	-	Practical (١,٥)
٨٠٢٤٢٠٥-٣	Machine Design	٣	٨٠٢٤١٠٤-٣-S	-	Theioritical (٤)
٨٠٢٤٢٠٦-٣	Systems of Renewable Energy	٣	٨٠٢٤١٠٢-٣-S	-	Theioritical (٤)
٨٠٢٤٢٠٧-٣	Practical Summer Training	٢	-	-	Training (٢)
Total					١٨

Ninth

٨٠٢٥١٠١-٣	Senior Project (١)	٢	٨٠٢٢٢٠٢-٢-S	-	Theioritical (٢), Practical (٢)
٨٠٢٥١٠٢-٣	Engineering Management	٢	٢٠٢٤١١٦-٣-S	-	Theioritical (٢)
٨٠٢٥١٠٣-٣	Computer Aided Design	٣	٨٠٢٤٢٠٥-٣-S	-	Theioritical (٤)
Total					٧

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Tenth					
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٨٠٢٥٢٠١-٢	Senior Project (٢)	٢	٨٠٢٥١٠١-٢ - S	-	Theioritical (٢), Practical (٢)
٨٠٢٥٢٠٢-٣	Power Plants and Desalination	٣	٨٠١٢١٠١-٢ - S ٨٠٢٤١٠٢-٣ - S	-	Theioritical (٤)
٨٠٢٥٢٠٣-١	Mechanical Engineering Lab	١	٨٠٢٤٢٠٣-٣ - S ٨٠٢٤٢٠١-٣ - S	-	Practical (١,٥)
Total					٦

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Group : إختيارية (٤)

code	Course Name	Hr.	requisite	Year	Theoretical (٢)	Activities Desc
٩٩٠١١٣-٢	Health Education	٢	-	-	Theioritical (٢)	
٩٩٠٣١٥-٢	Entrepreneurship	٢	-	-	Theioritical (٢)	
٩٩٠٤١٢-٢	Digital Citizenship	٢	-	-	Theioritical (٢)	
Total						٦

٩٩٠٣١٤-٢		٢	-	-	Theioritical (٣)	
٩٩٠٣١٥-٢		٢	-	-	Theioritical (٣)	
٩٩٩٨٠٩-٢	Presentation Skills	٢	-	-	Theioritical (٣)	
٩٩٩٨١٤-٢	IELTS Preparation	٢	-	-	Theioritical (٣)	
٩٩٩٨١٥-٢	Academic Writing	٢	-	-	Theioritical (٣)	
٩٩٩٨٢١-٢	English and the ٢١ st century skills	٢	-	-	Theioritical (٣)	
Total						١٢

٨٠٢٥١٠٤-٣	Fluid Dynamics	٣	٨٠٢٣٢٠٤-٣ - S	-	Theioritical (٤)	
٨٠٢٥١٠٥-٣	Turbo Machines	٣	٨٠٢٣٢٠٤-٣ - S	-	Theioritical (٤)	
٨٠٢٥١٠٦-٣	Applied Heat Transfer	٣	٨٠٢٤١٠٢-٣ - S	-	Theioritical (٤)	
٨٠٢٥١٠٧-٣	Energy Conversion	٣	٨٠٢٣٢٠٥-٣ - S	-	Theioritical (٤)	
٨٠٢٥١٠٨-٣	Plasticity	٣	٨٠٢٣٢٠١-٣ - S	-	Theioritical (٤)	
٨٠٢٥١٠٩-٣	Tribology	٣	٨٠٢٣٢٠٤-٢ - S	-	Theioritical (٤)	
٨٠٢٥١١٠-٣	Composite Materials	٣	٨٠٢٣٢٠١-٣ - S	-	Theioritical (٤)	
٨٠٢٥١١١-٣	Fracture in Engineering Materials	٣	٨٠٢٣٢٠١-٣ - S	-	Theioritical (٤)	
٨٠٢٥١١٢-٣	Finite Elements Analysis	٣	٢٠٢٣٢٠٦-٣ - S	-	Theioritical (٤)	
٨٠٢٥١١٣-٣	Nanomaterials and Nanotechnology	٣	٨٠٢٣١٠٢-٣ - S	-	Theioritical (٤)	
٨٠٢٥١١٤-٣	Robotics	٣	٨٠٢٣١٠١-٣ - S	-	Theioritical (٤)	
٨٠٢٥١١٥-٣	Introduction to Real Analysis	٣	٢٠٢٣١٠١-٣ - S ٢٠٢٣١٠٣-٤ - S	-	Theioritical (٤)	
٨٠٢٥١١٦-٣	Modeling and Simulation	٣	٨٠٢٤١٠٣-٣ - S	-	Theioritical (٤)	
٨٠٢٥١١٧-٣	Mechatronics System Design	٣	٨٠٢٤١٠٣-٣ - S	-	Theioritical (٤)	
٨٠٢٥١١٨-٣	Industrial Process Control	٣	٨٠٢٤١٠٣-٣ - S	-	Theioritical (٤)	
Total						٤٥

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٨٠٢٥٢٠٤-٣	Internal Combustion	٣	٨٠٢٤١٠٢-٣ - S	-	Theioritical (٤)
٨٠٢٥٢٠٥-٣	Energy Emcency	٣	٨٠٢٤٢٠٦-٣ - S	-	Theioritical (٤)
٨٠٢٥٢٠٦-٣	Design of Pipe Networks	٣	٨٠٢٤٢٠٦-٣ - S	-	Theioritical (٤)
٨٠٢٥٢٠٧-٣	Renewable Energy Powered Desalinatio Processes	٣	٨٠٢٤٢٠٦-٣ - S	-	Theioritical (٤)
٨٠٢٥٢٠٨-٣	Applied Renewable Energy Technologies	٣	٨٠٢٤٢٠٦-٣ - S	-	Theioritical (٤)
٨٠٢٥٢٠٩-٣	Reverse Engineering	٣	٨٠٢٤٢٠٥-٣ - S	-	Theioritical (٤)
٨٠٢٥٢١٠-٣	Materials Handling Systems	٣	٨٠٢٤٢٠٥-٣ - S	-	Theioritical (٤)
٨٠٢٥٢١١-٣	Operations Research	٣	٨٠٢٤١٠١-٣ - S	-	Theioritical (٤)
٨٠٢٥٢١٢-٣	Design Optimization	٣	٨٠٢٤٢٠٥-٣ - S	-	Theioritical (٤)
٨٠٢٥٢١٣-٣	Advanced Manufacturing Technology	٣	٨٠٢٤١٠١-٣ - S	-	Theioritical (٤)
٨٠٢٥٢١٤-٣	Recycling of Industrial Wastes	٣	٨٠٢٣١٠٢-٣ - S ٨٠٢٤١٠١-٣ - S	-	Theioritical (٤)
٨٠٢٥٢١٥-٣	Industrial Automation	٣	٨٠٢٤١٠٣-٣ - S	-	Theioritical (٤)
٨٠٢٥٢١٦-٣	Programmable Logic Controllers	٣	٨٠٢٥١١٨-٣ - S	-	Theioritical (٤)
٨٠٢٥٢١٧-٣	System Theory	٣	٨٠٢٤١٠٣-٣ - S ٨٠٢٥١١٥-٣ - S	-	Theioritical (٤)
Total					٤٢