

Program Records

About the Program	The Minor Program in Mechanical Engineering is designed to provide students from other disciplines with fundamental knowledge and practical understanding of mechanical engineering principles. The program aims to equip students with the analytical and technical competencies required to understand mechanical systems and to contribute effectively to interdisciplinary engineering projects. The program offers a structured curriculum covering core areas such as engineering mechanics, materials, thermodynamics, manufacturing, and mechanical systems. Through this foundation, students develop the ability to analyze basic mechanical problems, understand the behavior of engineering materials and systems, and apply mechanical engineering principles to practical applications in areas such as product development, energy systems, manufacturing, automation, and advanced technologies. Students who complete the minor will broaden their engineering perspective and strengthen their ability to work across disciplinary boundaries. The program supports the development of complementary technical skills that can enhance students' expertise in their primary field of study and prepare them for interdisciplinary professional environments, graduate studies, and innovation-oriented engineering activities.
Program Objectives	<i>The graduates of the Mechanical Engineering Minor Program will be able to:</i> Apply fundamental principles of mechanical engineering to problems encountered in their primary field of study. Analyze basic mechanical, thermal, material, and manufacturing-related engineering problems using appropriate engineering methods and tools. Contribute effectively to interdisciplinary projects by integrating mechanical engineering knowledge with the expertise gained in their major discipline.
Qualification Awarded	Minor Certificate in Mechanical Engineering
Length of Program & Credits	48 ECTS should be completed from the ME's undergraduate program.
Level of Qualification	
Mode of Study	Full Time
Field of Study	Mechanical
Admission Requirements	Being a full-time student in an undergraduate (First Cycle) program at AGU; not being in 3 rd or later year; must have successfully completed all taken courses in student's major program; have a Cumulative Grade Point Average (CGPA) of at least 2.75 out of 4.00; apply within the announced application periods; meet any additional academic requirements set by the Senate or the Department of Mechanical Engineering.
Recognition of Credit Mobility	Courses taken outside of the program could be transferred in accordance with the associated principals of the Abdullah Gul University Minor Program Regulation rules by the respective management board.
Graduation Requirements & Regulations	Student has to complete all courses in the program curriculum with a minimum GPA of 2.00.

Occupational Profiles of Graduates	Graduates of the Mechanical Engineering Minor Program will acquire complementary knowledge and skills in areas such as mechanics, materials, thermodynamics, manufacturing, and mechanical systems. This interdisciplinary background enables them to contribute more effectively to engineering activities that require an understanding of mechanical behavior, material selection, energy systems, production processes, and product development. The competencies gained through the minor program can support graduates in interdisciplinary professional environments, particularly in fields such as manufacturing, automotive, aerospace, energy, automation, product design, materials engineering, and research development. These skills complement the expertise obtained in their primary discipline and enhance their ability to participate in multidisciplinary engineering projects.
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Access to Further Studies

Assessment & Grading Policy	Based on Abdullah Gul University Undergraduate Education and Examination Regulation rules;					
	<u>Letter Grade</u>	<u>Coefficient</u>	<u>Score</u>	<u>Status</u>	<u>Letter Grade</u>	<u>Status</u>
	A	4,00	90-100	Pass	NA	Not Attended
	A-	3,67	87-89	Pass	W	Withdrawn
	B+	3,33	83-86	Pass	I	Incomplete
	B	3,00	80-82	Pass	T	Transferred
	B-	2,67	77-79	Pass	S	Satisfactory
	C+	2,33	73-76	Pass	U	Unsatisfactory
	C	2,00	70-72	Pass	P	In Progress
	C-	1,67	64-69	Conditional Pass	EX	Exempt
	D+	1,33	56-63	Conditional Pass		
	D	1,00	50-55	Conditional Pass		
	F	0,00	0-49	Failed		

Program Outcomes	PO1. Apply fundamental knowledge of mathematics, natural sciences, and mechanical engineering to analyze engineering problems related to their primary field of study. PO2. Identify basic mechanical engineering problems using analytical, computational, and modeling methods. PO3. Develop analytical and critical thinking skills to solve engineering problems while recognizing the importance of innovation, sustainability, project management, and entrepreneurship. PO4. Organize working effectively both individually and as a member of interdisciplinary teams in engineering-related projects. PO5. Distinguish the environmental, economic, sustainability implications of mechanical engineering as well as social impact of the applications and proposed engineering solutions. PO6. Demonstrate professional and ethical responsibilities, the importance of engineering standards, and safe engineering practices. PO7. Relate the importance of lifelong learning and development in the subjects and technological advancements in the mechanical engineering. PO8. Elaborate engineering concepts and technical information effectively through written, oral, and graphical means in interdisciplinary environments. PO9. Interpret fundamental methods, data collection, analysis, and interpretation used in mechanical engineering applications. PO10. Apply fundamental principles of mechanical engineering design and modern engineering tools to develop or evaluate systems, components, or processes under realistic constraints.
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TQF-HE & Program Outcomes Coverage	Knowledge	Skills	Competences			
	Theoretical Conceptual	Cognitive Practical	Work Independently and Take Responsibility	Learning	Communication and Social	Field Specific
P01	X					
P02		X				
P03		X				
P04	X					
P05			X			
P06					X	
P07				X		
P08				X		
P09		X				
P010		X				

Institutional & Program Outcomes Coverage	IO1	IO2	IO3	IO4	IO5	IO6	IO7
P01	X				X		
P02	X				X		
P03	X				X		
P04	X				X		
P05					X		X
P06						X	
P07					X		X
P08							X
P09			X	X			
P010			X				
P011	X				X		
P012	X				X		

Curriculum

	Course Code	Course Name	Theoretical Hours	Practical Hours	Credits	ECTS
Compulsory Courses	ME237	Thermodynamic-1	3	1	3	4
	ME216	Static	2	2	3	5
	ME203	Strength of Mat.	3	0	3	5
	ME217	Dynamic	2	2	3	5
	ME315	Fluid Mechanic	2	2	3	5
Compulsory Course Group	ME214	Mechatronic	2	2	3	4
	ME215	Eng. Materials	3	0	3	4
	ME239	Thermodynamic-2	3	1	3	4
	ME300	Machine Elements	2	2	4	4
	ME302	Manuf. Tech.	3	0	3	4
	ME304	Modelling & Cont.	3	0	3	4
	ME101	Eng. Drawing	2	2	4	5
	ME316	Experimental Eng.	0	2	2	5
	ME318	Fluid Dyn. and Dsg.	3	0	3	5
	ME306	Machine Theory	2	2	3	5
	ME352	Heat Transfer	2	1	3	5
	ME354	Numerical Anal.	2	2	3	5
Elective Course Group	ME438	Composite Materials	3	0	3	5
	ME416	Wind Eng. and Conv. Tech.				
	ME481	Renewable Energy				
	ME403	Prototyping				
	ME425	Vibration Engineering				
	ME485	Internal Combustion Eng.				
	ME458	Non-Dest. Evaluation Meth.				
	ME484	Applied AI in Mech. Systems				
	ME428	Finite Element Methods				
	ME423	Microstructure Engineering				
	ME469	3D Biofabrication				
	ME437	Disl. and Str. Mech. Solids				

Curriculum Summary

%		Courses	Credit	ECTS
%85	Compulsory 5 courses and 1 course from compulsory group	6	17-19	28-29
%15	ME Minor Elective ME4XX elective courses can be checked on the department's website.	1	3	5
100,0	TOTAL (7 courses must be taken)	7	20-22	33-34