

Bachelor of Science in Mechanical Engineering

1st Year / 1st Sem								1st Year / 2nd Sem							
Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite
CHEM	101	General Chemistry I	3	3	4			PHY	102	General Physics II	3	3	4	MA 102	PHY 101
PHY	101	General Physics I	3	3	4	MA 101		MA	102	Calculus II	4	0	4		MA 101
MA	101	Calculus I	4	0	4			ESP	102	Introduction to Report Writing	3	0	3		ESP 101
ESP	101	Introduction to Academic Discourse	3	0	3			ARB	102	Objective Writing	2	0	2		ARB 101
ARB	101	Practical Grammar	2	0	2			ISL	101	Belief and Its Consequences	2	0	2		
HPE	101	Health and Physical Education	1	0	1			CSE	101	Introduction to Programming	1	3	2		
			16	6	18						15	6	17		
2nd Year / 1st Sem								2nd Year / 2nd Sem							
Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite
MA	201	Calculus III	3	0	3		MA 102	MA	203	Elements of Differential Equations	3	0	3		MA 102
MA	202	Probability and Statistics for Engineers	3	0	3		MA 102	CSE	201	Introduction to Data Science	3	0	3		CSE 101, MA 202
ESP	201	Academic and Professional Communication	3	0	3		ESP 102	ISL	201	Professional Ethics	2	0	2		ISL 101
ME	201	Mechanical Engineering Drawing and Graphics	2	0	2			ME	205	Materials Science and Engineering	3	0	3		CHEM 101, MA 102
ME	202	Mechanical Engineering Drawing and Graphics Lab	0	3	1	ME 201		ME	206	Materials Science and Engineering Lab	0	3	1	ME 205	
ME	203	Statics	3	0	3		PHY 101	ME	207	Dynamics	3	0	3		ME 203
ME	204	Thermodynamics I	3	0	3		MA 102, PHY 102	ME	208	Thermodynamics II	3	0	3		ME 204
			17	3	18						17	3	18		
3rd Year / 1st Sem								3rd Year / 2nd Sem							
Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite
CSE	301	Introduction to Artificial Intelligence	3	0	3		CSE 201	MA	301	Numerical Methods for Engineers	3	0	3		CSE 101, MA 201
ARB	201	Literary Styles	2	0	2		ARB 102	MS	301	Business and Entrepreneurship	2	0	2		ESP 201
EE	331	Electrical Engineering Principles and Applications	3	0	3		MA 102, PHY 102	ISL	301	Human Right in Islam	2	0	2		ISL 201
EE	332	Electrical Engineering Principles and Applications Lab	0	3	1	EE 331		ME	305	Machine Design	3	0	3		ME 301
ME	301	Mechanics of Materials	3	0	3		ME 203, ME 205	ME	306	Mechanical System Design Lab	0	3	1	ME 305	
ME	302	Fluid Mechanics	3	0	3		MA 201, ME 204, ME 207	ME	307	Heat Transfer	3	0	3		ME 208, ME 302
ME	303	Manufacturing Processes	3	0	3		ME 201, ME 205	ME	308	Thermo-Fluid Lab	0	3	1	ME 307	
ME	304	Manufacturing Processes Lab	0	3	1	ME 303		ME	300	Design Project I	1	3	2		ESP 201, ME 301, ME 302, ME 303
			17	6	19						14	9	17		
4th Year / 1st Sem								4th Year / 2nd Sem							
Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite
ME	401	System Dynamics and Control	3	0	3		EE 331, MA 201, ME 208, ME 302	ME	490	Internship	0	0	6		122 Credits Completion
ME	402	Measurements and Control Lab	0	3	1	ME 401									
ME	4xx	Mechanical Engineering Elective I	3	0	3		ME 300								
ME	4xx	Mechanical Engineering Elective II	3	0	3		ME 300								
ME	4xx	Mechanical Engineering Elective III	3	0	3		ME 300								
ME	400	Design Project II	1	3	2		MS 301, ME 305, ME 300								
			13	6	15						0	0	6		
Electives								Electives							
Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite		Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite
ME	403	Composite Materials	3	0	3		ME 300	ME	407	Turbomachinery	3	0	3		ME 300
ME	404	Engineering Design Optimization	3	0	3		ME 300	ME	408	Production Planning and Control	3	0	3		ME 300
ME	405	Energy Conservation and Management	3	0	3		ME 300								
ME	406	Power Plant Engineering	3	0	3		ME 300								