

COURSE CATALOGUE

First Semester

S. #.	Course Codes	Name of Subjects	Credit Hours		Marks		
			Th.	Pr.	Theory	Practical	Total
1	(SS III)	Islamic Studies / Ethics	02	00	50	00	50
2	(PS 106)	Pakistan Studies	02	00	50	00	50
3	(MTH 102)	Applied Calculus	03	00	100	00	100
4	(ME 101)	Engineering Drawing & Graphics	02	02	50	100	150
5	(ME 111)	Engineering Statics	03	01	100	50	150
6	(ME 121)	Engineering Materials	03	00	100	00	100
Total			18		450	150	600

Second Semester

S. #.	Course Codes	Name of Subjects	Credit Hours		Marks		
			Th.	Pr.	Theory	Practical	Total
1	(EN 101)	Functional English	03	00	100	00	100
2	(MTH 113)	Linear Algebra, Differential Equations and Analytical Geometry	03	00	100	00	100
3	(ME 131)	Engineering Dynamics	03	00	100	00	100
4	(EI 102)	Electrical Technology	03	01	100	50	150
5	(ME 141)	Workshop Practice	00	02	00	100	100
Total			15		400	150	550

Third Semester

S. #.	Course Codes	Name of Subjects	Credit Hours		Marks		
			Th.	Pr.	Theory	Practical	Total
1	(MTH 213)	Complex Variables & Transforms	03	00	100	00	100
2	(ME 201)	Strength of Materials-I	03	01	100	50	150
3	(ME 211)	Mechanics of Machines-I	02	00	50	00	50
4	(ME 221)	Thermodynamics-I	03	01	100	50	150
5	(ES 281)	Basic Electronics	03	01	100	50	150
Total			17		450	150	600

Fourth Semester

S. #.	Course Codes	Name of Subjects	Credit Hours		Marks		
			Th.	Pr.	Theory	Practical	Total
1	(CS-225)	Introduction to Computers & C++ Programming	03	01	100	50	150
2	(ME 231)	Strength of Materials-II	03	00	100	00	100
3	(ME 241)	Thermodynamics-II	03	01	100	50	150
4	(ME 251)	Fluid Mechanics-I	03	01	100	50	150
5	(ME 261)	Mechanics of Machines-II	02	01	50	50	100
Total			18		450	200	650

Fifth Semester

S. #.	Course Codes	Name of Subjects	Credit Hours		Marks		
			Th.	Pr.	Theory	Practical	Total
1	(MTH 311)	Numerical Analysis & Computer Applications	03	01	100	50	150
2	(ME 301)	Heat & Mass Transfer	03	01	100	50	150
3	(ME 311)	Applied Aerodynamics	02	01	50	50	100
4	(ME 321)	Fluid Mechanics-II	03	01	100	50	150
5	(ME 331)	Machine Design & CAD-I	03	00	100	00	100
Total			18		450	200	650

Sixth Semester

S. #.	Course Codes	Name of Subjects	Credit Hours		Marks		
			Th.	Pr.	Theory	Practical	Total
1	(ME 341)	Instrumentation & Control	02	01	50	50	100
2	(MTH 317)	Statistics & Probability	03	00	100	00	100
3	(ME 351)	Machine Design & CAD-II	03	01	100	50	150
4	(ME 371)	Heating, Ventilation and Air Conditioning	03	01	100	50	150
5	(ME 381)	Mechanical Vibrations	03	01	100	50	150
Total			18		450	200	650

Seventh Semester

S. #.	Course Codes	Name of Subjects	Credit Hours		Marks		
			Th.	Pr.	Theory	Practical	Total
1	(ME 401)	Industrial Economics & Management	02	00	50	00	50
2	(ME 411)	Automobile Engineering	02	01	50	50	100
3	(ME 421)	Mechatronics	03	01	100	50	150
4	(ME 431)	Manufacturing Processes-I	02	01	50	50	100
5	(EE 425)	Safety, Health & Environment	02	00	50	00	50
6	(ME 441)	Thermal Power Plants	03	01	100	50	150
Total			18		400	200	600

Eighth Semester

S. #.	Course Codes	Name of Subjects	Credit Hours		Marks		
			Th.	Pr.	Theory	Practical	Total
1	(ME 451)	Renewable and Emerging Energy Technologies (REET)	03	01	100	50	150
2	(ME 461)	Manufacturing Processes -II	03	01	100	50	150
3	(ME 471)	Maintenance Engineering	02	00	50	00	50
4	(ME 481)	Project Management	02	00	50	00	50
5	(ME 499)	Project/Thesis	--	--	00	200	200
Total			12		300	300	600

