

Scheme of Studies

Semester 1				
No.	Course	Hours per week		
		Lecture	Lab.	Total
BSI-101	Islamiat & Pak Studies	4	0	4
BSI-102	Calculus	3	0	3
EE-109	Electrical Technology	3	3	4
WS-101	Engineering Workshop	0	3	1
ME-108	Computer Programming Lab.	0	6	2
ME-104	Technical Writing & Communication Skills	3	0	3
	Total Contact Hours	13	12	
	Total Credit Hours	13		17

Semester 2				
No.	Course	Hours per week		
		Lecture	Lab.	Total
BSI-106	Differential Equations	3	0	3
ME-101	Engineering Statistics	3	0	3
ME-102	Fluid Mechanics-I	3	0	3
ME-103	Solid Mechanics-I	3	0	3
ME-105	Engineering Drawing & Graphics	2	3	3
EE-119	Digital Logic Design	3	3	4
	Total Contact Hours	17	6	
	Total Credit Hours	17		19

Semester 3				
No.	Course	Hours per week		
		Lecture	Lab.	Total
BSI-104	Applied Linear Algebra	3	0	3
ME-201	Engineering Dynamics	3	3	4
ME-202	Fluid Mechanics-II	3	3	4
ME-203	Solid Mechanics-II	3	3	4
ME-205	CAD-I Lab.	0	6	2
	Total Contact Hours	12	15	
	Total Credit Hours	12	5	17

Semester 4				
No.	Course	Hours per week		
		Lecture	Lab.	Total
BSI-108	Numerical Analysis	3	0	3
MTN-206	Thermodynamics-I	3	3	4
ME-204	Mechs. of Machines & Vibration	3	3	4
ME-207	Engineering Metallurgy	3	3	4
ME-215	Machine Design-I	3	0	3
	Total Contact Hours	15	9	
	Total Credit Hours	15	3	18

Semester 5				
No.	Course	Hours per week		
		Lecture	Lab.	Total
ME-304	Manufacturing Proc-I	3	3	4
ME-302	Small Business Development & Entrepreneurship	3	0	3
ME-305	Machine Design-II	3	0	3
MTN-307	Electronics Circuits	3	0	3
ME-309	Engineering Economics	3	0	3
ME-310	Ethical & Legal Dim of Engineering	2	0	2
	Total Contact Hours	17	3	
	Total Credit Hours	17	1	18

Semester 6				
No.	Course	Hours per week		
		Lecture	Lab.	Total
ME-308	Quality Engineering	3	0	3
MTN-303	Dynamic Systems Modeling	3	3	4
MTN-306	Signal Measurement and Conditioning	3	3	4
ME-314	Manufacturing Process-II	3	3	4
ME-315	CAD-II Lab.	0	6	2
	Total Contact Hours	12	15	
	Total Credit Hours	12	5	17

Semester 7				
No.	Course	Hours per week		
		Lecture	Lab.	Total
MTN-402	Sensor and Actuators	3	3	4
MTN-403	Microcontroller Programming and Interfacing	3	3	4
ME-404	Heat & Mass Transfer	3	3	4
ME-406	Power Plants	3	0	3
ME-411	Project	0	6	2
	Total Contact Hours	12	15	
	Total Credit Hours	12	5	17

Semester 8				
No.	Course	Hours per week		
		Lecture	Lab.	Total
MTN-407	Control Systems	3	3	4
MTN-408	Robotics	3	3	4
MTN-409	Industrial Automation	3	3	4
MTN-410	Mechatronics System Design	1	3	2
ME-411	Project	0	6	2
	Total Contact Hours	10	18	
	Total Credit Hours	10	6	16

Total Credit Hours = 139