

7. Scheme of Studies

Industrial and Manufacturing Engineering										
First Year										
Fall Semester					Spring Semester					
Course Code	Course Title	Credit Hrs			Course Code	Course Title	Credit Hrs			
		Th	Pr	Total			Th	Pr	Total	
ME-101	Engineering Mechanics	3	1	4	PH-122	Applied Physics	3	1	4	
ME-104	Workshop Practice	0	2	2	HS-111	Functional English	2	0	2	
HS-105 HS/127	Pakistan Studies or Pakistan Studies for Foreigners	2	0	2	IM-101	Computer Applications in Engineering	2	1	3	
MT-114	Calculus	3	0	3	IM-105	Thermofluids	3	1	4	
EE-122	Basic Electricity and Electronics	3	0	3	ME-111	Engineering Drawing	2	1	3	
Total				11	3	14	Total			
				11	3	14	12 4 16			
Second Year										
Fall Semester					Spring Semester					
Course Code	Course Title	Credit Hrs			Course Code	Course Title	Credit Hrs			
		Th	Pr	Total			Th	Pr	Total	
IM-203	Manufacturing Processes	3	1	4	IM-211	Machine Design	3	1	4	
IM-208	Materials Engineering	3	1	4	IM-212	Computer Aided Engineering Design	2	1	3	
IM-209	Mechanics of Materials	3	1	4	IM-213	Metrology and Quality Control	3	1	4	
MT-252	Introduction to Probability and Statistics	3	1	4	MF-303	Applied Economics for Engineers	3	0	3	
HS-205 / HS-209	Islamic Studies / Ethical Behavior	2	0	2	MT-225	Linear Algebra & Ordinary Differential Equations	3	0	3	
					HS-200	Community Service	-	-	NC	
Total				14	4	18	Total			
				14	4	18	14 3 17			
Third Year										
Fall Semester					Spring Semester					
Course Code	Course Title	Credit Hrs			Course Code	Course Title	Credit Hrs			
		Th	Pr	Total			Th	Pr	Total	
IM-303	Production Management	3	1	4	IM-307	Advanced Manufacturing Processes	3	1	4	
IM-310	Tool Design	3	1	4	IM-308	Operations Research	3	1	4	
IM-312	Applied Thermofluids	3	1	4	IM-320	Modeling and Simulation	2	1	3	
MT-333	Advanced Calculus & Fourier Analysis	3	0	3	IM-408	Automation & Robotics	3	1	4	
HS-304	Business Communication & Ethics	3	0	3	IM-411	Methods Engineering	2	1	3	
					HSK-I	Chinese Language OR	-	-	NC	
					HS-231	Turkish Language-I	-	-	NC	
Total				15	3	18	Total			
				15	3	18	13 5 18			
Final Year										
Fall Semester					Spring Semester					
Course Code	Course Title	Credit Hrs			Course Code	Course Title	Credit Hrs			
		Th	Pr	Total			Th	Pr	Total	
IM-402	Computer Aided Manufacturing	3	1	4	IM-413	Plant Engineering	3	1	4	
IM-405	Finite Element Analysis	3	1	4	IM-417	Health, Safety & Environment	2	1	3	
*IM-##	Elective Course	3	1	4	MG-481	Entrepreneurship	3	0	3	
MG-450	Principles of Supply Chain Management	3	0	3	MT-441	Advanced Mathematical Techniques	3	0	3	
IM-409	Final Year Design Project	0	3	3	IM-409	Final Year Design Project	0	3	3	
HSK-II	Chinese Language OR	-	-	NC						
HS-232	Turkish Language-II	-	-	NC						
Total				12	5	17	Total			
				12	5	17	11 5 16			
Elective Courses										
IM-416	Management Information System				IM-420	Basics of Additive Manufacturing				
IM-418	Condition Monitoring				IM-421	Smart Manufacturing System				
IM-419	Project Management				IM-422	Ergonomics in Workplace Design				