Industrial and Manufacturing Engineering

FIRST YEAR										
Fall Semester					Spring Semester					
Course Code	Course Title			Hours Total	Course Code	Course Title			Hours Total	
MT-114	Calculus	3	0	3	PH-122	Applied Physics	3	1	4	
ME-101	Engineering Mechanics	3	1	4	HS-111	Functional English	2	0	2	
EE-122	Basic Electricity and Electronics	3	0	3	ME-111	Engineering Drawing	2	1	3	
ME-104	Workshop Practice	0	2	2	IM-101	Computer Applications in Engineering	2	1	3	
HS-105	Pakistan Studies OR	2	0	2	IM-105	Thermofluids	3	1	4	
HS-127	Pakistan Studies for Foreigners				HSK-I	Chinese Language			NC	
HS-105	Pakistan Studies OR	2	0	2	IM-105	Thermofluids	3		1	

Fall Semester						Spring Semester					
Course Code	Course Title	Credit Hours Th Pr Total		Course Code	Course Title	Credit Hours Th Pr Total					
IM-208	Materials Engineering	3	1	4	MT-225	Linear Algebra & Ordinary Differential Equations	3	0	3		
IM-209	Mechanics of Materials	3	1	4	MF-303	Applied Economics for Engineers	3	0	3		
IM-203	Manufacturing Processes	3	1	4	IM-211	Machine Design	3	1	4		
MT-252	Introduction to Probability and Statistics	3	1	4	IM-212	Computer Aided Engineering Design	2	1	3		
HS-205	Islamic Studies OR	2	0	2	IM-213	Metrology and Quality Control	3	1	4		
HS-209	Ethical Behaviour										
HSK-II	Chinese Language			NC							

THIRD YEAR

Fall Semester					Spring Semester					
Course Code	Course Title		edit Pr	Hours Total	Course Code	Course Title			Hours Total	
HS-304	Business Communication & Ethics	3	0	3	IM-308	Operations Research	3	1	4	
IM-303	Production Management	3	1	4	IM-307	Advanced Manufacturing Processes	3	1	4	
MT-333	Advanced Calculus & Fourier Analysis	3	0	3	IM-408	Automation & Robotics	3	1	4	
IM-312	Applied Thermo Fluids	3	1	4	IM-411	Methods Engineering	2	1	3	
IM-310	Tool Design	3	1	4	IM-320	Modeling and Simulation	2	1	3	

FINAL YEAR

Fall Semester					Spring Semester					
Course Code	Course Title	Credit Hours Th Pr Total		Course Code	Course Title	Credit Hours Th Pr Total				
IM-405	Finite Element Analysis	3	1	3	HS-403	Entrepreneurship	3	0	3	
IM-402	Computer Aided Manufacturing	3	1	4	IM-417	Health, Safety & Environment	2	1	3	
MG-450	Principles of Supply Chain Management	3	0	3	MT-441	Advanced Mathematical Techniques	3	0	3	
IM-##	Elective Course	3	1	4	IM-413	Plant Engineering	3	1	4	
IM-409	*Manufacturing Engineering Project	0	3	3	IM-409	Manufacturing Engineering Project	0	3	3	

Elective Courses (to be chosen from the following)

IM-416 Management Information System

IM-418 Condition Monitoring

IM-419 Project Management

* Duration one academic year: Requires literature survey and preliminary work during this Semester