

## B.E. in Mechanical Engineering Department (Revision 2016)

First Year	
Sem I	Sem II
FEC101 Applied Mathematics-I	FEC201 Applied Mathematics-II
FEC102 Applied Physics-I	FEC202 Applied Physics-II
FEC103 Applied Chemistry –I	FEC203 Applied Chemistry –II
FEC104 Engineering Mechanics	FEC204 Engineering Drawing
FEC105 Basic Electrical Engineering	FEC205 Structured Programming Approach
FEC106 Environmental Studies	FEC206 Communication Skills
FEL101 Basic Workshop Practice-I	FEL201 Basic Workshop Practice-II
Second Year	
Sem III	Sem IV
MEC301 Applied Mathematics III	MEC401 Applied Mathematics IV
MEC302 Thermodynamics	MEC402 Fluid Mechanics
MEC303 Strength of Materials	MEC403 Industrial Electronics
MEC304 Production Process I	MEC404 Production Process II
MEC305 Material Technology	MEC405 Kinematics of Machinery
MEL301 Computer Aided Machine Drawing	MEL401 Data Base and Information Retrieval
MEL302 Strength of Materials	MEL402 Fluid Mechanics
MEL303 Material Technology	MEL403 Industrial Electronics
MEL304 Machine Shop Practice I	MEL404 Kinematics of Machinery
	MEL405 Machine Shop Practice II
Third Year	
Sem V	Sem VI
MEC501 Internal Combustion Engines	MEC601 Metrology and Quality engineering
MEC502 Mechanical Measurements and Control	MEC602 Machine Design I
MEC503 Heat Transfer	MEC603 Finite Element analysis
MEC504 Dynamics of Machinery	MEC604 Refrigeration and Air Conditioning
MEL501 Internal Combustion Engines	MEL601 Metrology and Quality engineering
MEL502 Mechanical Measurements and Control	MEL602 Machine Design I
MEL503 Heat Transfer	MEL603 Finite Element analysis
MEL504 Dynamics of Machinery	MEL604 Refrigeration and Air Conditioning
MEL505 Manufacturing Science Lab	MEL605 Mechatronics
MEL506 Business Communication and Ethics	
<b>Department Level Optional Course I</b>	<b>Department Level Optional Course II</b>
MEDLO5011 Press Tool Design	MEDLO6021 Mechatronics
MEDLO5012 Machining Sciences and Tool Design	MEDLO6022 Robotics
MEDLO5013 Design of Jigs and Fixtures	MEDLO6023 Industrial Automation

<b>Final Year</b>	
<b>Sem VII</b>	<b>Sem VIII</b>
MEC701 Machine Design II	MEC801 Design of Mechanical Systems
MEC702 CAD/CAM/CAE	MEC802 Industrial Engineering and Management
MEC703 Production Planning and Control	MEC803 Power Engineering
MEL701 Machine Design II	MEL801 Design of Mechanical Systems
MEL702 CAD/CAM/CAE	MEL802 Power Engineering
MEL703 Production Planning and Control	MEP801 Project II
MEP701 Project I	
<b>Department Level Optional Course III</b>	<b>Department Level Optional Course IV</b>
MEDLO7031 Mechanical Vibrations	MEDLO8041 Power Plant Engineering
MEDLO7032 Automobile Engineering	MEDLO8042 Rapid Prototyping
MEDLO7033 Pumps, Compressors and Fans	MEDLO8043 Renewable Energy Systems
MEDLO7034 Computational Fluid Dynamics	MEDLO8044 Energy Management in Utility Systems
<b>Institute Level Elective Course I</b>	<b>Institute Level Elective Course II</b>
ILO7011 Product Lifecycle Management	ILO8021 Project Management
ILO7012 Reliability Engineering	ILO8022 Finance Management
ILO7013 Management Information System	ILO8023 Entrepreneurship Development and Management
ILO7014 Design of Experiments	ILO8024 Human Resource Management
ILO7015 Operation Research	ILO8025 Professional Ethics and CSR
ILO7016 Cyber Security and Laws	ILO8026 Research Methodology
ILO7017 Disaster Management and Mitigation Measures	ILO8027 IPR and Patenting
ILO7018 Energy Audit and Management	ILO8028 Digital Business Management
ILO7019 Development Engineering	ILO8029 Environmental Management

