

First Year	
Semester I	Semester 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 Engg.	FEC205–C programming
FEC106 – Environmental Studies	FEC206 – Professional Communication Ethics
FEL101 – Basic Workshop Practice – I	FEL201 – Basic Workshop Practice – II

Second Year	
Semester III	Semester IV
MEC301 Engineering Mathematics-III	MEC401 Engineering Mathematics-IV
MEC302 Strength of Materials	MEC402 Fluid Mechanics
MEC303 Production Processes	MEC403 Kinematics of Machinery
MEC304 Materials and Metallurgy	MEC404 CAD/CAM
MEC305 Thermodynamics	MEL401 Industrial Electronics
MEL301 Materials Testing	MEL402 Kinematics of Machinery
MEL302 Machine Shop Practice	MEL403 Python Programming
MESBL301 CAD –Modeling	MESBL401 CNC and 3-D Printing
MEPBL301 Mini Project – 1A	MEPBL401 Mini Project – 1B

Third Year	
Semester V	Semester VI
MEC501 Mechanical Measurements and Controls	MEC601 Metrology and Quality engineering
MEC502 Thermal Engineering	MEC602 Machine Design I
MEC503 Dynamics of Machinery	MEC603 Finite Element analysis
MEC504 Finite Element Analysis	MEC604 Refrigeration and Air Conditioning
Department Level Optional Course - I	Department Level Optional Course - II
MEDLO5011 Optimization Techniques MEDLO5012 Design of Experiments	ECCDLO 6021 Digital VLSI Design ECCDLO 6022 Radar Engineering

MEDLO5013 Computational Methods	ECCDLO 6023 Database Management System ECCDLO 6024 Audio Processing
MEL501 Thermal Engineering	MEL601 Metrology and Quality Engineering
MEL502 Dynamics of Machinery	MEL602 Machine Design I
MEL503 Finite Element Analysis	MEL603 Finite Element Analysis
MESBL501 Professional communication and ethics –II	MEL604 Refrigeration and Air Conditioning
MEPBL501 Mini Project – 2 A	MEL605 Mechatronics Lab

Final Year	
Semester VII	Semester VIII
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
Department Level Optional Course - III	Department Level Optional Course – IV
MEDLO7031 Mechanical Vibrations MEDLO7032 Automobile Engineering MEDLO7033 Pumps, Compressors and Fans MEDLO7034 Computational Fluid Dynamics	MEDLO8041 Power Plant Engineering MEDLO8042 Rapid Prototyping MEDLO8043 Renewable Energy Systems MEDLO8044 Energy Management in Utility Systems
Institute Level Optional Course – I	InstituteE Level Optional Course - II
ILO7011 Product Lifecycle Management ILO7012 Reliability Engineering ILO7013 Management Information System ILO7014 Design of Experiments ILO7015 Operation Research ILO7016 Cyber Security and Laws ILO7017 Disaster Management and Mitigation Measures ILO7018 Energy Audit and Management ILO7019 Development Engineering	ILO8021 Project Management ILO8022 Finance Management ILO8023. Entrepreneurship Development and Management ILO8024. Human Resource Management ILO8025. Professional Ethics and CSR ILO8026. Research Methodology ILO8027. IPR and Patenting ILO8028. Digital Business Management ILO8029. Environmental Management
MEL701 Machine Design II	MEL801 Design of Mechanical Systems
MEL702 CAD/CAM/CAE	MEL802 Power Engineering
MEL703 Production Planning and Control	MEP801 Project II
MEL704 Project I	-
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