

SEMESTER I

Subject Name	Subject Type	Subject Code	Subject Credit
Mathematics - I	Basic Science	2BS1101	4
Physics	Basic Science	2BS1103	3
Communication Skills	Humanity and Social Science	2HS1101	3
Engineering Graphics	Engineering Science	2ES1101	4
Workshop Practice	Engineering Science	2ES1102	2
Elements of Civil Engineering	Engineering Science	2ES1106	4

SEMESTER II

Subject Name	Subject Type	Subject Code	Subject Credit
Mathematics - II	Basic Science	2BS1102	4
Basic Electrical Engineering	Engineering Science	2ES1103	4
Programming for Problem Solving	Engineering Science	2ES1104	4
Elements of Mechanical Engineering	Engineering Science	2ES1105	4
Engineering Mechanics	Engineering Science	2ES1107	4
Computer Aided Drawing	Engineering Science	2ES1108	1
Audit Course-II	Audit	2AC*	0

SEMESTER**III**

Subject Name	Subject Type	Subject Code	Subject Credit
Thermal Engineering	Professional Core	2MC3102	4
Electrical Machines & Drives	Engineering Science	2EE3107	5
Analog Circuits & Devices	Professional Core	2MC3101	4
Kinematics and Dynamics of Machines	Professional Core	2MC3103	4
Solid Modeling	Professional Core	2ME3101	1
Mechatronics Workshop	Professional Core	2MC3104	1
Strength of Materials	Engineering Science	2CI3111	4

**SEMESTER
IV**

Subject Name	Subject Type	Subject Code	Subject Credit
Mathematics For Mechanical & Mechatronics Engineering	Basic Science	2BS4102	4
Fundamentals of Machine Design	Professional Core	2ME4101	4
Digital Circuits & Devices	Professional Core	2MC4101	4
Design of Machine Elements	Professional Core	2MC4102	5
Fluid Mechanics & Machines	Professional Core	2MC4103	5
Control Engineering	Professional Core	2MC4104	4
Industrial Management_Open Course	Open Elective	2HS4101	2

**SEMESTER
V**

Subject Name	Subject Type	Subject Code	Subject Credit
Manufacturing Technology	Professional Core	2ME4104	4
Material Technology	Professional Core	2ME5101	4
Design of Machine Elements	Professional Core	2MC5101	4
Microcontroller	Professional Core	2MC5103	4
Computational Tool	Professional Core	2MC5104	1
Aptitude Skill Building I	Humanity and Social Science	2HS5101	1
Industrial Management	Open Elective	2MC510E1	0
Entrepreneurship Development	Open Elective	2MC510E2	0
Control Engineering	Professional Elective	2MC51PE1	4
Industrial Electronics	Professional Elective	2MC51PE2	4

**SEMESTER
VI**

Subject Name	Subject Type	Subject Code	Subject Credit
Metal Forming & Fabrication Technology	Professional Core	2ME6102	4
Hydraulics & Pneumatics Systems	Professional Core	2MC6101	4
Sensor Systems	Professional Core	2MC6103	4
Mechanical Measurement & Metrology	Professional Core	2ME5105	4
Industrial Internet Of Things	Professional Core	2MC6104	1
Aptitude Skill Building - II	Humanity and Social Science	2HS6101	1
Embedded Systems	Professional Elective	2MC61PE1	4
Drives and Motion Control	Professional Elective	2MC61PE2	4

**SEMESTER
VII**

Subject Name	Subject Type	Subject Code	Subject Credit
Advance Controller	Professional Core	2MC7101	4
Robotics	Professional Core	2MC7102	4
Production Technology	Professional Core	2ME7103	4
Digital Image Processing & Machine Vision	Professional Core	2MC7105	4
Minor Project	Professional Core	2MC7106	2
Practical Training	Professional Core	2MC7107	2
Advance Hydraulics & Pneumatics Systems	Professional Elective	2MC71PE1	4
Operation Management	Professional Elective	2MC71PE2	4

**SEMESTER
VIII**

Subject Name	Subject Type	Subject Code	Subject Credit
Computational Intelligence Techniques	Professional Core	2MC8101	4
Computer Aided Design	Professional Core	2ME7104	4
Mechanical System Design	Professional Core	2MC8104	4
Major Project	Professional Core	2MC8105	4
Advance Control System	Professional Elective	2MC81PE1	4
Computer Integrated Manufacturing	Professional Elective	2MC81PE2	4

