

B. Tech. Curriculum (Semester Wise) Y13 Onwards

ECE		CCE		CSE		MME	
Credits	147	Credits	146	Credits	148	Credits	151
Contact Hours	160	Contact Hours	156	Contact Hours	152	Contact Hours	159
1st		1st		1st		1st	
Physics I	4	Physics I	4	Physics I	4	Physics I	4
Mathematics I	4	Mathematics I	4	Mathematics I	4	Mathematics I	4
Electronics I (with Lab)	5	Electronics I (with Lab)	5	Electronics I (with Lab)	5	Electronics I (with Lab)	5
Computer Programming	3	Computer Programming	3	Computer Programming	3	Computer Programming	3
Computer Programming Lab	2	Computer Programming Lab	2	Computer Programming Lab	2	Computer Programming Lab	2
English	3	English	3	English	3	English	3
Total Credits = 21		Total Credits = 21		Total Credits = 21		Total Credits = 21	
2nd		2nd		2nd		2nd	
Physics II	4	Physics II	4	Physics II	4	Physics II	4
Mathematics II	4	Mathematics II	4	Mathematics II	4	Mathematics II	4
Value Education & Ethics	3	Value Education & Ethics	3	Value Education & Ethics	3	Value Education & Ethics	3
Physics Lab	2	Physics Lab	2	Physics Lab	2	Physics Lab	2
IT Workshop	3	IT Workshop	3	IT Workshop	3	Engineering Mechanics	3
Electronics – II (with Lab)	5	Electronics – II (with Lab)	5	Discrete Mathematical Structures	3	Engineering Graphics Lab	2
Total Credits = 21		Total Credits = 21		Total Credits = 19		Total Credits = 23	
3rd		3rd		3rd		3rd	
Introduction to Economics	3	Introduction to Economics	3	Introduction to Economics	3	Introduction to Economics	3
Environmental Ecology & Biology	3	Environmental Ecology & Biology	3	Environmental Ecology & Biology	3	Environmental Ecology & Biology	3
Mathematics III	4	Mathematics III	4	Mathematics III	4	Mathematics III	4
Principles of Engineering Science	3	Principles of Engineering Science	3	Principles of Engineering Science	3	Principles of Engineering Science	3
Data Structures	3	Data Structures	3	Data Structures	3	Engineernig Workshop	3
Data Structures Lab	2	Data Structures Lab	2	Data Structures Lab	2	Manufacturing and Materials	3
DCS (with Lab)	5	DCS (with Lab)	5	DCS (with Lab)	5		
Total Credits = 23		Total Credits = 23		Total Credits = 23		Total Credits = 19	
4th		4th		4th		4th	
Psychology	3	Psychology	3	Psychology	3	Psychology	3
Semiconductor Devices and Circuits	3	Computer Organization and Architecture	3	Computer Organization and Architecture	3	Mechanics of Solids	3
Principles of Communication	3	Computer Organization and Architecture Lab	2	Computer Organization and Architecture Lab	2	Mechanics of Solids Lab	1
Signals, Systems and Control	3	Principles of Communication	3	Database Management Systems	3	Kinematics & Dynamics	3
Signal Systems and Communication Lab	2	Signals, Systems and Control	3	Database Management Systems Lab	2	Kinematics & Dynamics Lab	1
Probability Theory & Stochastic Process	3	Signal Systems and Communication Lab	2	Design and Analysis of Algorithms	3	Thermodynamics & Heat Transfer	3
Control System Engineering	3	Object Oriented Programming with Java	3	Object Oriented Programming with Java	3	Thermodynamics & Heat Transfer Lab	1
		Object Oriented Programming with Java Lab	2	Object Oriented Programming with Java Lab	2	Control System Engineering	3
Total Credits = 20		Total Credits = 21		Total Credits = 21		Total Credits = 18	

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ECE	
Credits	147
Contact Hours	160
5th	
Digital Communication	3
Digital Signal Processing	3
Digital Signal Processing and Communication Lab	2
Microprocessor & Interface	5
Engineering Electromagnetics	3
Open Elective Cluster 1	3
HSS Cluster 1	3
Total Credits = 16/19/22	

CCE	
Credits	146
Contact Hours	156
5th	
Digital Communication	3
Digital Signal Processing	3
Digital Signal Processing and Communication Lab	2
Software Engineering	3
Operating Systems	3
Operating Systems Lab	2
Open Elective Cluster 1	3
HSS Cluster 1	3
Total Credits = 16/19/22	

CSE	
Credits	148
Contact Hours	152
5th	
Theory of Computation	3
Operating Systems	3
Operating Systems Lab	2
Program Elective 1	3
Program Elective 2	3
Software Engineering	3
Open Elective Cluster 1	3
HSS Cluster 1	3
Total Credits = 17/20/23	

MME	
Credits	151
Contact Hours	159
5th	
Engineering Design	3
Engineering Design Lab	2
Mechatronics System Interface	3
Mechatronics System Interface Lab	2
Fluid Mechanics & Machinery	3
Fluid Mechanics & Machinery Lab	1
Microprocessor & Interface	5
Open Elective Cluster 1	3
HSS Cluster 1	3
Total Credits = 19/22/25	

6th	
Computer Networks	3
Computer Networks Lab	2
ECE - IV Lab (Microwave and Optical Communication)	2
Program Elective 1	3
Program Elective 2	3
Science Elective 1	3
Open Elective Cluster 1	3
HSS Cluster 1	3
Total Credits = 16/19/22	

6th	
Computer Networks	3
Computer Networks Lab	2
Program Elective 1	3
Program Elective 2	3
Science Elective 1	3
Open Elective Cluster 1	3
HSS Cluster 1	3
Total Credits = 14/17/20	

6th	
Computer Networks	3
Computer Networks Lab	2
Compiler Design	3
Program Elective 3	3
Program Elective 4	3
Science Elective 1	3
Open Elective Cluster 1	3
HSS Cluster 1	3
Total Credits = 17/20/23	

6th	
Robotics	3
Robotics Lab	1
CAD – CAM	3
CAD – CAM Lab	2
Distributed Control Systems	3
Distributed Control Systems Lab	1
Program Elective 1	3
Science Elective 1	3
Open Elective Cluster 1	3
HSS Cluster 1	3
Total Credits = 19/22/25	

7th	
Program Elective 3	3
Program Elective 4	3
Science Elective 2	3
Open Elective Cluster 2	3
HSS Cluster 2	3
Project	-

7th	
Program Elective 3	3
Program Elective 4	3
Science Elective 2	3
Open Elective Cluster 2	3
HSS Cluster 2	3
Project	-

7th	
Program Elective 5	3
Program Elective 6	3
Science Elective 2	3
Open Elective Cluster 2	3
HSS Cluster 2	3
Project	-

7th	
Program Elective 2	3
Mechatronics System Design (Lab)	2
Science Elective 2	3
Open Elective Cluster 2	3
HSS Cluster 2	3
Project	-

8th	
Program Elective 5	3
Open Elective Cluster 2	3
HSS Cluster 2	3
Project	6
Total Credits for 7th + 8th = 24	

8th	
Program Elective 5	3
Open Elective Cluster 2	3
HSS Cluster 2	3
Project	6
Total Credits for 7th + 8th = 24	

8th	
Program Elective 7	3
Open Elective Cluster 2	3
HSS Cluster 2	3
Project	6
Total Credits for 7th + 8th = 24	

8th	
Program Elective 3	3
Program Elective 4	3
Open Elective Cluster 2	3
HSS Cluster 2	3
Project	6
Total Credits for 7th + 8th = 26	