

**School Name: School of Engineering**

**Department Name: Department of Electrical, Electronics & Communication Engineering**

**Program Name: B.Tech. (Electrical and Electronics Engineering)**

**Scheme: 2016-2020**

<b>First Semester</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	LLL111	Basic English	0	0	4	2
2	MAT113	Differential and Integral Calculus	3	0	0	3
3	PHY111	Modern Physics	3	0	0	3
4	PHY151	Physics Lab - I	0	0	2	1
5	CHY111	General Chemistry	3	0	0	3
6	CHY151	Chemistry Lab - I	0	0	2	1
7	EVS102	Environmental Science & Energy	0	0	2	1
8	EEE101	Basic Electrical and Electronics Engineering	3	0	0	3
9	EEE151	Basic Electrical and Electronics Engineering Lab	3	0	0	3
10	MEE152	Workshop Practice	0	0	2	1
<b>Semester 2</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	MAT122	Matrices & Ordinary Differential Equations	3	0	0	3
2	PHY121	Condensed Matter Physics	3	0	0	3
3	PHY141	Physics Lab II	0	0	2	1
4	LLL101	Universal Human Values & Ethics	0	0	2	1
5	LLL123	English Proficiency and Aptitude Building-I	0	0	4	2
6	HUM201	Psychology & Sociology	3	0	0	3
7	CHY122	Nanoscience & Nanotechnology	3	0	0	3
8	CSE101	Computer Programming & Problem Solving	3	0	0	3

9	CSE151	Computer Programming and Problem Solving Lab	0	0	2	1
10	MEE151	Engineering Graphics	0	0	2	1
11	CHY141	Chemistry – II Lab	0	0	2	1
<b>Third Semester</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	MAT212	Vector Calculus, Functions of Complex Variable and PED	3	0	0	3
2	ECE221	Digital Design	3	0	0	3
3	ECE242	Digital Design Lab	0	0	2	1
4	EEE216	Network Analysis and Synthesis	3	0	0	3
5	EEE256	Network Analysis and Synthesis Lab	0	0	2	1
6	ECE213	Electromagnetic Field Theory	3	0	0	3
7	ECE215	Transform Techniques for Signals	3	0	0	3
8	ECE212	Electronic Devices and Circuits	3	0	0	3
9	EEEPB217	EEE Project Based Learning-I	0	0	2	1
10	LLL213	English Proficiency and Aptitude Building-II	0	0	4	2
Total Credits						23
<b>Fourth Semester</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	MAT222	Numerical Methods	3	0	0	3
2	MAT241	Numerical Methods Lab	0	0	2	1
3	EEE221	Electrical Measurement and Instrumentation	3	0	0	3
4	EEE241	Electrical Measurement and Instrumentation Lab	0	0	2	1
5	EEE223	Electrical Machine-I	3	0	0	3

6	EEE243	Electrical Machine-I Lab	0	0	2	1
7	EEE225	Fundamentals of Power System	3	0	0	3
8	ECE224	Analog Electronics Circuit	3	0	0	3
9	ECE244	Analog Electronics Circuit Lab	3	0	0	3
10	LLL222	English proficiency and Aptitude Building-III	0	0	4	2
	EEEPB245	EEE Project Based Learning-II	0	0	2	1
	EEE204	Non Conventional Energy Resources	3	0	0	3
<b>Total Credits</b>						<b>26</b>
<b>Fifth Semester</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	MAT312	Probability Theory and Stochastic Processes	3	0	0	3
2	ECE312	Microprocessors and Microcontrollers	3	0	0	3
3	ECE352	Microprocessors and Microcontrollers Lab	0	0	2	1
4	EEE313	Electrical Machine-II	3	0	0	3
5	EEE353	Electrical Machine-II Lab	0	0	2	1
6	ECE311	Analog Integrated Circuits	3	0	0	3
7	ECE351	Analog Integrated Circuits LAB	0	0	2	1
8	EEE314	Power System Analysis	3	0	0	3
	EMP531	PLC	3	0	0	3
	LLL312	English Proficiency and Aptitude Building-IV	0	0	4	2
	EEE317	Electrical and Electronics Engineering Project Based Learning-III	0	0	2	1
<b>Semester 6</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	LLL322	Campus to Corporate	0	0	4	2
2	EEE327	Control Systems	3	0	0	3

3	EEE325	Data Structure Using C	3	0	0	3
4	EEE323	Power Electronics	3	0	0	3
5	ECE326	Digital Signal Processing	3	0	0	3
6	EEE411	Power System Protection and Switch Gear	3	0	0	3
7	EEE355	Data Structure Using C Lab	0	0	2	1
8	ECE346	Digital Signal Processing Lab	0	0	2	1
9	EEE451	Power System Protection and Switch Gear Lab	0	0	2	1
10	EEE357	Control Systems Lab	0	0	2	1
	EEE328	Technical Proficiency in Electrical and Electronics Engineering-II	0	0	2	1
<b>Seventh Semester</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	ECE421	Analog and Digital Communication	3	0	0	3
2	EEE412	Electric Drives	3	0	0	3
3	EEE458	Power Electronics and Drives	3	0	0	3
4	MGT302	Industrial Economics and Management	3	0	0	3
5	EEE410	Industrial Internship for Electrical and Electronics Engineering	0	0	2	1
6	EEE419	Capstone Design-I	0	0	10	5
7	EEE502	Power Electronics Applications in Power Systems	3	0	0	3
8	ECE325	Neural Networks and Fuzzy Control	3	0	0	3
<b>Semester 8</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	EEE429	Capstone Design -II	0	0	10	15