

Curriculum Session 2017-18

School Name : School of Engineering & Information Technology

Programme Name : B.Tech.		Branch : Electronics Communication Engineering				
SEMESTER : I						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	MAT 101	Mathematics-I	3	1	-	4
2	PHY 101/CHY 101	Modern Physics/General Chemistry	3	1	-	4
3	EEE 101/ ECE 101	Basic Electrical Engineering/Basic Electronics Engineering	3	-	-	3
4	CSE 101/ MEE 101	Computer System & Programming in C/Engineering Mechanics	3	-	-	3
5	EVS 101/ PSY 101	Environmental Science/Sociology and Psychology	3	-	-	3
6	CSE 151/ MEE 151	Computer System & Programming Lab/ Engineering Mechanics Lab	-	-	2	1
7	EEE 151 / ECE 151	Electrical Engineering Lab/ Electronics Engineering Lab	-	-	2	1
8	MEE 153 / MEE 155	Computer Aided Engineering Graphics Lab/ Product Realization through Manufacturing	-	-	4	2
9	PHY 151 / CHY 151	Modern Physics Lab/ General Chemistry Lab	-	-	2	1
10	BLL 151	Life Skill (Communication Skill)	-	-	4	2
TOTAL NO. OF CREDITS						24
SEMESTER : II						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	MAT 102	Mathematics-II	3	1	-	4
2	PHY 101/CHY 101	Modern Physics/General Chemistry	3	1	-	4
3	EEE 101/ ECE 101	Basic Electrical Engineering/Basic Electronics Engineering	3	-	-	3
4	CSE 101/ MEE 101	Computer System & Programming in C/Engineering Mechanics	3	-	-	3
5	EVS 101/ PSY 101	Environmental Science/Sociology and Psychology	3	-	-	3
6	CSE 151/ MEE 151	Computer System & Programming Lab/ Engineering Mechanics Lab	-	-	2	1
7	EEE 151 / ECE 151	Electrical Engineering Lab/ Electronics Engineering Lab	-	-	2	1
8	MEE 153 / MEE 155	Computer Aided Engineering Graphics Lab/ Product Realization through Manufacturing	-	-	4	2
9	PHY 151 / CHY 151	Modern Physics Lab/ General Chemistry Lab	-	-	2	1
10	BLL 152	Life Skill (Human Values & Ethics)	-	-	4	2
TOTAL NO. OF CREDITS						24

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SEMESTER : III						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	MAT 301	Mathematics-III	3	1	0	4
2	CSE 205	Computer Architecture and Organization	3	0	0	3
3	CSE 203	Data Structures and Algorithms	3	0	0	3
4	CSE 207	Digital Design	3	0	0	3
5	ECE 201	Electromagnetic Field Theory	3	0	0	3
6	ECE 203	Electronic Devices and Circuits	3	0	0	3
7	ECE 251	Electronic Devices and Circuits Lab	0	0	2	1
8	CSE 253	Data Structures and Algorithms Lab	0	0	2	1
9	CSE 255	Digital Design Lab	0	0	2	1
10	BLL 251	Life Skill (Technical Communication)	0	0	4	2
TOTAL NO. OF CREDITS						24
SEMESTER : IV						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	MAT 202	Statistical and Numerical Methods	3	0	0	3
2	ECE 202	Signals and Systems	3	0	0	3
3	ECE 204	Network Analysis and Synthesis	3	0	0	3
4	ECE 206	Measurement and Instrumentation	3	0	0	3
5	ECE 208	Analog Communication	3	0	0	3
6	MGT 202	Principal of Management	3	0	0	3
7	MAT 252	Statistical and Numerical Methods Lab	0	0	2	1
8	ECE 252	Network Analysis and Synthesis Lab	0	0	2	1
9	ECE 254	Measurement and Instrumentation Lab	0	0	2	1
10	ECE 256	Analog Communication Lab	0	0	2	1
11	BLL 252	Life Skill (Soft Skill)	0	0	4	2
TOTAL NO. OF CREDITS						24
SEMESTER : V						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE 301	Analog Integrated Circuit	3	0	0	3
2	ECE 303	Digital Communication	3	0	0	3
3	ECE 305	Microprocessors and Microcontrollers	3	0	0	3
4	CSE 307	Computer Networks	3	0	0	3
5		Open Elective -I	0	0	4	2
6		Programme Elective- I	3	0	0	3
7	ECE 351	Digital Communication Lab	0	0	2	1
8	ECE 353	Microprocessors and Microcontrollers Lab	0	0	2	1
9	CSE 355	Computer Networks Lab	0	0	2	1
10	BLL 351	Life Skill (Aptitude Building)	0	0	4	2
11	ECE 355	Technical proficiency in Electronics & Communication Engineering-I	0	0	2	1
TOTAL NO. OF CREDITS						23

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SEMESTER : VI						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	CSE 308	Internet of Things	3	0	0	3
2	ECE 302	Control Systems	3	0	0	3
3	ECE 304	Digital Signal Processing	3	0	0	3
4		Programme Elective- II	3	0	0	3
5		Programme Elective- III	3	0	0	3
6		Open Elective -II	3	0	0	3
7	ECE 352	Digital Signal Processing Lab	0	0	2	1
8	ECE 354	Control Systems Lab	0	0	2	1
9	CAC 300	Campus-to-Corporate	0	0	4	2
10	ECE 356	Technical proficiency in Electronics & Communication Engineering	0	0	2	1
TOTAL NO. OF CREDITS						23
SEMESTER : VII						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE 403	Microwave Engineering	3	0	0	3
2	ECE 405	VLSI Design	3	0	0	3
3	ECE 407	Antenna and Wave Propagation	3	0	0	3
4	ECE 409	Optical Communication and Networks	2	0	0	2
5		Program Elective - IV	3	0	0	3
6		Program Elective - V	3	0	0	3
7	ECE 451	VLSI Design Lab	0	0	2	1
8	ECE 453	Technical proficiency in Electronics & Communication Engineering	0	0	2	1
9	ECE 400	Industrial Internship	0	0	0	2
TOTAL NO. OF CREDITS						21
SEMESTER : VIII						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE 402	Project	0	0	0	20
TOTAL NO. OF CREDITS						20
OPEN ELECTIVE I						
S. No.	Course Code	Course Title	L	T	P	C
1	GER 101	Foreign Language(German)	0	0	4	2
2	FRE 101	Foreign Language(French)	0	0	4	2
3	JAP 101	Foreign Language(Japanese)	0	0	4	2
4	FPA 101	Fine & Performing Art	0	0	4	2
5	ECA 101	Extra cocurricular activities	0	0	4	2
OPEN ELECTIVE-II						
S. No.	Course Code	Course Title	L	T	P	C
1	CSE 312	Cloud Computing	2	0	0	2
2	ECE 308	Renewable Energy Resources	2	0	0	2
3	ECE 306	Robotics and Automation	2	0	0	2
4	CLE 308	Natural Disaster and Mitigation management	2	0	0	2

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Program Elective-I						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	CSE 309	ANDROID Application for Mobile	3	0	0	3
2	ECE 309	Data Communication	3	0	0	3
3	CSE 317	Information Theory & Coding	3	0	0	3
4	ECE 311	Power Electronics engineering	3	0	0	3
Program Elective-II						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE 312	Network Security	3	0	0	3
2	ECE 314	VLSI Technology	3	0	0	3
3	ECE 316	Linux & Shell Programming	3	0	0	3
4	ECE 318	Filter Design	3	0	0	3
Program Elective-III						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE 320	Wireless Sensor Networks	3	0	0	3
2	ECE 322	Digital System Design using VHDL	3	0	0	3
3	CSE 322	Big Data Analysis	3	0	0	3
4	ECE 326	Bio Medical Engineering	3	0	0	3
Program Elective-IV						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE 411	Wireless and Mobile Communication	3	0	0	3
2	CSE 423	Soft Computing	3	0	0	3
3	ECE 415	Mobile Adhoc Networks	3	0	0	3
4	ECE 417	Digital Image Processing	3	0	0	3
Program Elective-V						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE 419	Satellite & RADAR systems	2	0	0	2
2	CSE 421	Embedded Systems	2	0	0	2
3	ECE 421	Principles of Secure Communication	2	0	0	2
4	ECE 423	Enterprise Resource Planning	2	0	0	2