

Curriculum Session 2017-18

School Name : School of Engineering & Information Technology

Programme Name : B.Tech.

Branch : Electrical 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
SEMESTER : III						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	MAT 201	Mathematics-III	3	1	0	4
2	EEE 201	Electrical Engineering Materials	3	0	0	3
3	EEE 203	Electrical Machine-I	3	0	0	3
4	ECE 205	Digital Electronics	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	EEE 251	Electrical Machine-I lab	0	0	2	1
9	ECE 253	Digital Electronics Lab	0	0	2	1
10	BLL 251	Life Skill (Technical Communication)	0	0	4	2
TOTAL NO. OF CREDITS						24

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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 210	Transform Techniques for Signals	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	EEE 202	Electrical Machine-II	3	0	0	3
6	EEE 204	High Voltage Engineering	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	EEE 252	Electrical Machine-II lab	0	0	2	1
11	BLL 252	Life Skill (Soft Skill)	0	0	4	2
						24
SEMESTER : V						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE 307	Analog and Digital Communication	3	0	0	3
2	EEE 301	Fundamentals of Power System	3	0	0	3
3	ECE 305	Microprocessors and Microcontrollers	3	0	0	3
4	EEE 303	Power Electronics	3	0	0	3
5		Open Elective - I	0	0	4	2
6		Programme Elective- I	3	0	0	3
7	ECE 357	Analog and Digital Communication Lab	0	0	2	1
8	ECE 353	Microprocessors and Microcontrollers Lab	0	0	2	1
9	EEE 351	Power Electronics Lab	0	0	2	1
10	BLL 351	Life Skill (Aptitude Building)	0	0	4	2
11	EEE 353	Technical proficiency in Electrical Engineering-I	0	0	2	0
TOTAL NO. OF CREDITS						22
SEMESTER : VI						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	EEE 302	Power System Protection & Switchgear	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	EEE 352	Technical proficiency in Electrical Engineering-II	0	0	2	0
TOTAL NO. OF CREDITS						22

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SEMESTER : VII						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	EEE 401	Electrical Machines Design	3	0	0	3
2	EEE 403	Utilization of Electrical Energy & Traction	3	0	0	3
3	EEE 405	Electric Drives	3	0	0	3
4	EEE 407	Non Conventional Energy Resources	2	0	0	2
5		Program Elective - IV	3	0	0	3
6		Program Elective - V	3	0	0	3
7		Electric Drives Lab	0	0	2	1
8	EEE 451	Technical proficiency in Electrical Engineering-III	0	0	2	0
9	EEE 400	Industrial Internship	0	0	0	2
TOTAL NO. OF CREDITS						20
SEMESTER : VIII						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	EEE 402	Project	0	0	0	20
TOTAL NO. OF CREDITS						20
Open Elective I						
S.NO.	COURSE CODE	COURSE NAME	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 NAME	L	T	P	C
1	CSE 312	Cloud Computing	2	0	0	2
2	CSE 310	Internet of Things	2	0	0	2
3	ECE 306	Robotics and Automation	2	0	0	2
4	CLE 308	Natuaral Disaster and Mitigation management	2	0	0	2
Programme Elective I						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	EEE 305	Analog Integrated Circuit	3	0	0	3
2	EEE 307	Advanced Electromechanics	3	0	0	3
3	EEE 309	Antennas and Propagation	3	0	0	3
4	EEE 311	Power theft and energy Management	3	0	0	3
Programme Elective II						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE 324	Introduction to VLSI Design	3	0	0	3
2	EEE 304	Digital Hardware Design	3	0	0	3
3	EEE 306	Convention and CAD of Electric Machine	3	0	0	3
4	EEE 308	Filter Design	3	0	0	3

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Programme Elective III						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	EEE 310	Power Station Practice	3	0	0	3
2	ECE 326	Bio Medical Engineering	3	0	0	3
3	EEE 312	Flexible AC Transmission System	3	0	0	3
4	EEE 314	Introduction to Java with C#	3	0	0	3
Programme Elective IV						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	EEE 411	Power System Operation and Control	3	0	0	3
2	CSE 423	Soft Computing	3	0	0	3
3	EEE 413	SCADA	3	0	0	3
4	CSE 421	Embedded Systems	3	0	0	3
Programme Elective V						
S.NO.	COURSE CODE	COURSE NAME	L	T	P	C
1	EEE 415	DC Transmission in High Voltage	3	0	0	3
2	ECE 425	Robotics and Automation	3	0	0	3
3	EEE 417	Digital Control System	3	0	0	3
4	ECE 423	Enterprise Resource Planning	3	0	0	3