GALGOTIAS UNIVERSITY
Programme Structure : Electronics and Communication (Advance Communication Technology)

School/Dept.	DEECE		Program Name				B.Tech.ECE (ACT)	
semester	I		Program Chair				Dr Seema Garg	
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	C1UC122B	Engineering Mathematics-I	3	0	1		4	5
2	R1UC101B	Programming for Problem Solving using C	2	0	1	1	4	5
3	G2UA120B	Basic Electrical & Electronics Engineering	3	0	1		4	5
4	C1UB129T	Chemical and Biological Materials	3	0	1		3	5
5	G3UB101B	Engineering Design and Prototyping	3	0	1		4	5
6	L1UB120T	YOGA	2	0	0		0	2
			Credi				19	

Scho	DEECE		Progr				B.Tech.ECE (ACT)	
seme	II		Progr				Dr Seema Garg	
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	C1UD124B	Semiconductor and Optoelectronics Devices	3	0	1		4	5
2	C1UC222B	Engineering Mathematics-II	3	0	1		4	5
3	G2UC101B	Introduction of Digital Systems	2	0	1		3	5
4	E2UC201C	OOPS using Python	3	0	1	1	5	5
5	C1UC224T	Discrete Mathematics	3	0	0		3	3
6	O1UA104B	Communication Skills for Engineers	2	0	1		3	4
7	C1UB120T	Environmental Impact Analysis	2	0	0		0	2
			Credi				22	

Scho	DEECE		Progr				B.Tech.ECE (ACT)	
seme	III		Progr				Dr Seema Garg	
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	C1UC321T	Functions of Complex Variables and Transforms	3	0	0		3	3
2	G2UC301C	Electronic Devices and Circuits	3	0	1	1	5	5
3	G2UB301B	Network Analysis and Synthesis	3	0	1		4	5
4	G2UC302T	Signals and Systems	3	0	0		3	3
5	G2UC303T	Electromagnetic Field Theory	3	0	0		3	3
6	K1UC320B	Communication Competency & Aptitude Building-1	1	0	1		2	3
			Credi				20	

Scho		DEECE	Progr				B.Tech.ECE (ACT)	
seme		IV	Progr				Dr Seema Garg	
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	C1UC420T	Probability and Stochastic Processes	3	0	0		3	3
2	G2UA401B	Integrated Circuits	3	0	0		3	3
3	G2UB504B	Microcontroller and Embedded System	3	0	1		4	5
4	G2UA402T	Analog and Digital Communication	3	0	0		3	4
5	G2UA405T	Antenna and Wave Propagation	3	0	1	1	5	5
6	O1UA421B	Communication Competency & Aptitude Building-2	1	0	1		2	3
7	*********	Capsule Course-1(Analog Circuit Design (Spice Tool))	0	0	1	0	1	2
			Credi				21	

Scho		DEECE	Progr				B.Tech.ECE (ACT)	
seme		V	Progr				Dr Seema Garg	
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	G2UC501B	Microwave Engineering	3	0	1		4	5
2	G2UC503T	Wireless and Mobile Communication	3	0	0		3	3
3	G2UC502C	Digital Signal Processing	3	0	1	1	5	5
4	********	Open Elective-1	3	0	1		4	5
5	*******	Introduction to IoT and its Applications	3	0	1		4	5
6	******	Capsule Course-2 (Introduction to Arduino)	0	0	1	0	1	2
			Total				21	

Scho		DEECE	Progr				B.Tech.ECE (ACT)	
seme		VI	Progr				Dr Seema Garg	
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	O1UA602B	Campus 2 Corporate Training	1	0	1		2	3
2	G2UC606C	VLSI Design	3	0	1		4	5
3	*******	Program Elective-I	3	0	0		3	3
4	G2UC602T(To be Updated by ERP)	Advanced Communication Systems	3	0	0		3	3
5	*****	Program Elective-II	3	0	0	0	3	3
6	*****	Satellite and Radar Communication	3	0	1	1	5	5
7	*********	Capsule Course-3(Introduction to MATLAB and Simulink)	0	0	1	0	1	2
			Credi				21	

Scho	DEECE					Progr			B.Tech.ECE (ACT)	
seme	VII					Progr			Dr Seema Garg	
S. No.	Course Code	Course Title	L	T	P	S		Credits	Hours
1	******	Program Elective-III (VLSI Program Core)	3	0	0			3	3
2	******	Program Elective-IV	3	0	0			3	3
3	******	Program Elective-V	3	0	0			3	3
4	******	Open Elective -3	3	0	0			3	3
5	BEE02P4007	Industrial Internship (Min. 4 weeks)	0	0	0	1		1	0
6	BEE02P4008	Capstone Design Phase-I	0	0	0	7		7	0
			Credi					20	

Scho	DEECE					Progr			B.Tech.ECE (ACT)	
seme	VII					Progr			Dr Seema Garg	
S. No.	Course Code	Course Title	L	T	P	S		Credits	Hours
1	BEE02P4006	Capstone Design phase - II	0	0	0	18		18	0
2	******	Industrial Internship-II (To be completed during 8 Semester only with min 3 to max. 6 months)	0	0	1	1		2	0
			Credi					20	
		Total Credits of All Semesters	**163**						

Programme Elective Basket

School/Dept.	DEECE	Program Name				B.Tech.ECE (ACT)	
Elective Basket	VLSI	Program Chair				Dr Seema Garg	

S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	******	ASIC Design	2	1	0	0	3	3
2	******	CAD Algorithms for VLSI Physical Design	3	0	0	0	3	3
3	******	Digital VLSI Design	3	0	0	0	3	3
4	******	Digital System Design using VHDL	3	0	0	0	3	3
5	******	SoC Design	2	1	0	0	3	3
6	******	System Verilog	3	0	0	0	3	3
7	******	Low Power VLSI Design	2	1	0	0	3	3

School/Dept.	DEECE	Program Name				B.Tech.ECE (ACT)	
Elective Basket	IoT	Program Chair				Dr Seema Garg	

S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	******	Introduction to IoT and its Applications	3	0	0	0	3	3
2	******	Automation and Robotics	3	0	0	0	3	3
3	******	Deep Learning Algorithms	3	0	0	0	3	3
4	******	Object Oriented Programming	3	0	0	0	3	3
5	******	Virtual Reality	3	0	0	0	3	3
6	******	Raspberry Pi and its applications	3	0	0	0	3	3
7	******	Introduction to Arduino programming and its applications	3	0	0	0	3	3
8	******	Cloud Computing	3	0	0	0	3	3

Scho	DEECE	Progr	B.Tech.ECE (ACT)
Elective Basket	Communucation and Networking	Program Chair	Dr Seema Garg

S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	******	Satellite Communication	3	0	0	0	3	3
2	******	Principles of Secure Communication	3	0	0	0	3	3
3	******	Antenna and Wave Propogation	3	0	0	0	3	3
4	******	Mobile Ad Hoc Networks	3	0	0	0	3	3
5	******	Mobile Computing	3	0	0	0	3	3
6	******	Information Theory and Coding	3	0	0	0	3	3
7	******	Radar Guidance and Navigation	3	0	0	0	3	3
8	******	Optical Communication	3	0	0	0	3	3
9	******	Wireless Sensor Networks	3	0	0	0	3	3
10	******	Opto Electronics	3	0	0	0	3	3

School/Dept.	DEECE				Program Name			B.Tech.ECE	
Elective Basket	**Biomedical Engineeringand Healthcare**				**Program Chair**			**Dr Seema Garg**	
S. No.	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Credits**	**Hours**	
1	******	Medical Imaging	3	0	0	0	3	3	
2	******	Bio-signal processing	3	0	0	0	3	3	
3	******	Medical Image Processing	3	0	0	0	3	3	
4	******	Biomedical Sensors and Measurement Devices	3	0	0	0	3	3	
5	******	Biomaterials and Artificial Organs	3	0	0	0	3	3	
6	******	Assist Devices	3	0	0	0	3	3	
7	******	Soft Computing	3	0	0	0	3	3	
8	******	Hospital Engineering and Informatics Systems	3	0	0	0	3	3	
9	******	Bio-Chemistry	3	0	0	0	3	3	