



GALGOTIAS UNIVERSITY

Programme Structure

School/Dept.		DEECE	Program Name				B.Tech.ECE	
semester		I	Program Chair				Dr Dinesh	
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	

School/Dept.		DEECE	Program Name				B.Tech.ECE	
semester		II	Program Chair				Dr Dinesh	
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	

School/Dept.		DEECE	Program Name				B.Tech.ECE	
semester		III	Program Chair				Dr Dinesh	
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	

School/Dept.		DEECE	Program Name				B.Tech.ECE	
semester		IV	Program Chair				Dr Dinesh	
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	

Sno		DEECE	Progr				B.Tech.ECE	
Seme		V	Progr				Dr Dinesh	
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	

S.No		DEECE	Progr				B.Tech.ECE	
S.No		VI	Progr				Dr Dinesh	
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	

S.No		DEECE	Program				B.Tech.ECE	
S.No		VII	Program				Dr Dinesh	
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	

S.No		DEECE	Progr				B.Tech.ECE	
S.No		VII	Progr				Dr Dinesh	
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	
Elective Basket		VLSI	Program Chair				Dr Dinesh	
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	
Elective Basket		IoT	Program Chair				Dr Dinesh	
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

School/Dept.		DEECE	Program Name				B.Tech.ECE	
Elective Basket		Communication and Networking	Program Chair				Dr Dinesh	

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 Propagation	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		Renewable Energy Engineering	Program Chair				Dr Dinesh	
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1			3	0	0	0	3	3
2			3	0	0	0	3	3
3			3	0	0	0	3	3
4			3	0	0	0	3	3
5			2	1	0	0	3	3
6			3	0	0	0	3	3

School/Dept.		DEECE	Program Name				B.Tech.ECE	
Elective Basket		Biomedical Engineering and Healthcare	Program Chair				Dr Dinesh	
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