



GALGOTIAS UNIVERSITY

B.Tech. in Electronics and Computer Engineering Programme Structure

School/Dept.		Department of Electrical, Electronics and Communication Engg.		Program Name: B.Tech. in Electronics and Computer					
Semester		1							
S. No.	Course Code	Course Title		L	T	P	S	Credits	Hours
1	C1UC122B	Engineering Mathematics-I		3	0	1	0	4	5
2	E2UC102C	Programming for Problem Solving using C		2	0	1	1	4	5
3	G2UA120B	Basic Electrical & Electronics Engineering		3	0	1	0	4	5
4	C1UB129T	Chemical and Biological Materials		3	0	0	0	3	3
5	G3UB101B	Engineering Design and Prototyping		3	0	1	0	4	5
	L1UB120T	Yoga		2	0	0	0	0	2
6									
		Total Semester Credit						#REF!	
Semester		2							
S. No.	Course Code	Course Title		L	T	P	S	Credits	Hours
1									
2	C1UC222B	Engineering Mathematics-II		3	0	1	0	4	5
3	G2UC101B	Introduction to Digital Systems		2	0	1	0	3	4
4	E2UC201C	OOPS using Python		2	0	1	1	5	4
5	C1UC224T	Discrete Mathematics		3	0	0	0	3	3
6	O1UA104B	Communication Skills for Engineers		2	0	1	0	3	4
	C1UD124B	Semi-conductor and Opto Electronic Devices		3	0	1	0	4	5
7	C1UB120T	Environmental Impact Analysis		2	0	0	0	0	2
		Total Semester Credit		22					
Semester		3							
S. No.	Course Code	Course Title		L	T	P	S	Credits	Hours
1	C1UC321T	Functions of Complex Variables and Transforms		3	0	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	0	4	5
4	G2UC302T	Signals and Systems		3	0	0	0	3	4
5	Provided by ERP	Digital Electronics		3	0	0	0	3	3
6	K1UC320B	Communication Competency & Aptitude Building-1		1	0	1	0	2	2
		Total Semester Credit						20	
Semester		4							
S. No.	Course Code	Course Title		L	T	P	S	Credits	Hours
1	C1UC420T	Probability and Stochastic Processes		3	0	0	0	3	3
2	G2UA401B	Integrated Circuits		3	0	1	1	5	5

3	Provided by ERP	Computer Organization & Architecture	3	0	1	0	4	5
4	Provided by ERP	Operating Systems	3	0	0	0	3	3
5	G2UA402T	Analog and Digital Communication	3	0	0	0	3	3
6	Provided by ERP	Introduction to MATLAB (Capsule course)	0	0	1	0	1	2
7	O1UA421B	Communication Competency & Aptitude Building-2	1	0	1	0	2	3
		Total Semester Credit					21	
Semester		5						
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	Provided by ERP	Computer Networks	3	0	0	0	3	5
2	Provided by ERP	Electrical Power System	3	0	1	0	4	5
3	G2UB503C	Power Electronics	3	0	1	1	5	5
4	G2UB504B	Microcontroller and Embedded System	3	0	1	0	4	5
5	Provided by ERP	Electronic workshop (Capsule course)	0	0	1	0	1	2
6	E2UC521B	Python and Data Structures	3	0	1	0	4	5
		Total Semester Credit					21	
Semester		6						
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	O1UA602B	Campus 2 Corporate Training	1	0	1	0	2	3
2	Provided by ERP	Data Base Management System	3	0	1	0	4	5
3	Provided by ERP	Program Elective-I	3	0	0	0	3	4
4	Provided by ERP	Program Elective-II	3	0	0	0	3	3
5	Provided by ERP	Communication Workshop (Capsule course)	0	0	1	0	1	2
6	Provided by ERP	Open Elective-I	3	0	0	0	3	3
7	G2UC606C	VLSI Design	3	0	1	1	5	5
		Total Semester Credit					21	
Semester		7						
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	Provided by ERP	Program Elective-III	3	0	0	0	3	3
2	Provided by ERP	Program Elective-IV	3	0	0	0	3	3
3	Provided by ERP	Open Elective-II	3	0	0	0	3	3
4	Provided by ERP	Open Elective-III	3	0	0	0	3	3
5	G2UB702L	Industrial Internship-I (Min. 4 weeks)	0	0	0	1	1	0
6	G2UB703L	Capstone Design Phase-I	0	0	0	7	7	0
		Total Semester Credit					20	
Semester		8						
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours

1	BECE9997	Capstone Design phase - II	0	0	0	18	18	0
2	Provided by ERP	Industrial Internship-II (To be completed during 8 Semester only with min 3 to max. 6 months)	0	0	0	2	2	0
		Total Semester Credit					20	

Total Program Credit

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Programme Elective

School/Dept.		Department of Electrical, Electronics and Communication Engineering	Program Name: B.Tech. in Electronics and Computer					
Basket Name		Program Elective-I						
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	Provided by ERP	Internet of Things	2	1	0	0	3	3
2	Provided by ERP	Raspberry Pi and its applications	3	0	0	0	3	3
3	G2UB615T	Digital Control	2	1	0	0	3	3
4	G2UB616T	Automation and Robotics	3	0	0	0	3	3
5	G2UB617T	Introduction to PLC and SCADA	2	1	0	0	3	3
Basket Name		Program Elective-II						
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	Provided by ERP	Medical Imaging	3	0	0	0	3	3
2	Provided by ERP	LINUX Programming	3	0	0	0	3	3
3	Provided by ERP	Biomedical Sensors and Measurement Devices	3	0	0	0	3	3
4	G2UB626T	Smart grid cyber-security	3	0	0	0	3	3
5	G2UB628T	Soft Computing	3	0	0	0	3	3
Basket Name		Program Elective-III						
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	Provided by ERP	JAVA Programming	2	1	0	0	3	3
2	Provided by ERP	ASIC Design	3	0	0	0	3	3
3	Provided by ERP	System Verilog	3	0	0	0	3	3
4	Provided by ERP	Mobile Ad Hoc Networks	3	0	0	0	3	3
5	G2UB638T	Satellite Communication	3	0	0	0	3	3
6	Provided by ERP	Information Theory and Coding	2	1	0	0	3	3
7	Provided by ERP	Wireless Sensor Networks	3	0	0	0	3	3
Basket Name		Program Elective-IV						
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	Provided by ERP	Artificial Intelligence & Machine Learning	3	0	0	0	3	3
2	G2UB641T	Digital Signal Processing	3	0	0	0	3	3
3	G2UB642T	Soft Computing	3	0	0	0	3	3

4	Provided by ERP	Blockchain Technology	3	0	0	0	3	3
5	G2UB644T	Cloud Computing	3	0	0	0	3	3
6	Provided by ERP	Charging Technologies for Electric Vehicle	3	0	0	0	3	3
Basket Name		Open Elective-I						
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	G2UB651T	Renewable Energy	3	0	0	0	3	3
2	Provided by ERP	Web Technology	3	0	0	0	3	3
3	G2UB653T	Principle of Marketing	3	0	0	0	3	3
Basket Name		Open Elective-II						
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	G2UB605T	Entrepreneurship	3	0	0	0	3	3
2	Provided by ERP	Introduction to Smart Grid	3	0	0	0	3	3
3	Provided by ERP	Deep Learning and Cognitive Computing	3	0	0	0	3	3
Basket Name		Open Elective-III						
S. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	G2UB652T	Digital Image Processing	3	0	0	0	3	3
2	Provided by ERP	Big Data Analysis	3	0	0	0	3	3