GALGOTIAS UNIVERSITY

(Under the Uttar Pradesh Private Universities Act No. 12 of 2019)

Plot No. 2, Sector - 17A, Yamuna Expressway, Greater Noida, Distt.: Gautam Budha Nagar, Uttar Pradesh (India) 203201
Website : www.galgotiasuniversity.edu.in

School Name: School of Engineering

Department Name: Department of Electrical, Electronics & Communication Engineering

Program Name: B.Tech. (Electronics & Communication Engineering)

Scheme: 2016-2020

Sl. No.	Course Code	Course Title	L	T	P	C
First Semester						
1	LLL111	Basic English	0	0	4	2
2	MAT113	Differential and Integral Calculus	3	0	0	3
3	PHY111	Modern Physics	3	0	0	3
4	PHY151	Physics Lab - I	0	0	2	1
5	CHY111	General Chemistry	3	0	0	3
6	CHY151	Chemistry Lab - I	0	0	2	1
7	EVS102	Environmental Science & Energy	0	0	2	1
8	EEE101	Basic Electrical and Electronics Engineering	3	0	0	3
9	EEE151	Basic Electrical and Electronics Engineering Lab	3	0	0	3
10	MEE152	Workshop Practice	0	0	2	1
Total Credits						

Sl. No.	Course code	Course Title	L	T	P	C
Second Semester						
1	MAT122	Matrices & Ordinary Differential Equations	3	0	0	3
2	PHY121	Condensed Matter Physics	3	0	0	3
3	PHY141	Physics Lab II	0	0	2	1
4	LLL101	Universal Human Values & Ethics	0	0	2	1
5	LLL123	English Proficiency and Aptitude Building-I	0	0	4	2
6	HUM201	Psychology & Sociology	3	0	0	3
7	CHY122	Nano science & Nanotechnology	3	0	0	3
8	CSE101	Computer Programming & Problem Solving	3	0	0	3
9	CSE151	Computer Programming and Problem	0	0	2	1

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10	MEE151	Solving Lab				
10	MEE151	Engineering Graphics	0	0	2	1
11	CHY141	Chemistry – II Lab	0	0	2	1
		Total Credits				**22**

Third Semester						
Sl. No.	**Course Code**	**Course Title**	**L**	**T**	**P**	**C**
1	MAT212	Vector Calculus, Functions of Complex Variable & PDE	3	1	0	4
2	LLL213	English Proficiency and Aptitude Building-2	0	0	4	2
3	ECE211	Data Structures Using 'C'	3	0	0	3
4	ECE251	Data Structures Using 'C' Lab	0	0	2	1
5	ECE213	Electromagnetic Field Theory	3	0	0	3
6	ECE212	Electronic Devices and Circuits	3	0	0	3
7	ECE214	Signals and Systems	3	0	0	3
8	EEE211	Network Analysis and Synthesis	3	0	0	3
9	EEE251	Network Analysis and Synthesis Lab	0	0	2	1
10	ECEP217	PBL-1	0	0	2	1
		Total Credits				**24**

Fourth Semester						
Sl. No.	**Course Code**	**Course Title**	**L**	**T**	**P**	**C**
1	ECE225	Computer Organization and Architecture	3	1	0	4
2	MAT222	Numerical Methods	3	0	0	3
3	MAT241	Numerical Methods LAB	0	0	2	1
4	LLL222	English proficiency and Aptitude Building-3	0	0	4	2
5	ECE222	Measurement and Instrumentation	3	0	0	3
6	ECE226	Analog Communication	3	0	0	3
7	ECE246	Analog Communication Lab	0	0	2	1
8	ECE221	Digital Design	3	0	0	3
9	ECE241	Digital Design Lab	0	0	2	1
10	ECE223	Computer Networks	3	0	0	3
11	ECEPB248	PBL-2	0	0	2	1
		Total Credits				**25**

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Sl. No.	Course Code	Course Title	L	T	P	C
		Fifth Semester				
1	ECE311	Analog Integrated Circuit	3	0	0	3
2	ECE351	Analog Integrated Circuits Lab	0	0	2	1
3	ECE312	Microprocessors and Microcontrollers	3	0	0	3
4	ECE352	Microprocessors and Microcontrollers Lab	0	0	2	1
5	ECE313	Digital Communication	3	0	0	3
6	ECE353	Digital Communication Lab	0	0	2	1
7	ECE316	Control Systems	3	0	0	3
8	LLL312	English proficiency and Aptitude Building-IV	0	0	4	2
9	ECE331/ECE317	Digital System Design using VHDL/ Automation and Robotics (**Program Elective-1**)	3	0	0	3
10	ECE314/ ECE315	Embedded System Design/ VLSI Technology (Program Elective-2)	3	0	0	3
11	ECE332	Electronics and Communication Engineering Project Based Learning-III	0	0	2	1
12	ITS318	IT Skills in C and C++ Programming				
		Total Credits				

Sl. No.	Course code	Course Title	L	T	P	C
		Sixth Semester				
1	ECE329	Microwave Engineering	3	0	0	3
2	ECE355	Microwave Engineering Lab	0	0	2	1
3	ECE327	VLSI Design	3	0	0	3
4	ECE347	VLSI Design Lab	0	0	2	1
5	ECE326	Digital Signal Processing	3	0	0	3
6	ECE346	Digital Signal Processing Lab	0	0	2	1
7	ECE342	ECE Project based Learning IV	0	0	2	1
8	ITS319	IT Skills in Databases	0	0	2	1
9	ECE324	Antenna and Wave Propagation	3	0	0	3
10	LLL322	Campus to Corporate	0	0	4	2
11	ECE328/ ECE319	Mobile Ad Hoc Networks/ Satellite Communication (Program Elective-3)	3	0	0	3

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| 12 | ECE314/ ECE613 | Embedded System Design/ Soft Computing (Program Elective-4) | 3 | 0 | 0 | 3 |

| | | | | Total Credits | 25 |

Seventh Semester

Sl. No.	Course Code	Course Title	L	T	P	C
1	ECE413	Wireless and Mobile Communication	3	0	0	3
2	ECE612/ ECE412	Mobile Computing/ Digital Image Proseccing Program Elective-5	3	0	0	3
3	MGT302	Industrial Economics and Management	3	0	0	3
4	ECE418	Technical proficiency in Electronics and Communication Engineering-III	0	0	2	1
5	ECE411	Optical Communication and Networks	3	0	0	3
6	ECE451	Optical Communication and Networks Lab	0	0	2	1
	ECE350	ECE-Industrial internship	0	0	0	2
7	ECE419	Capstone Design-I	0	0	10	5
				Total Credits		21

Eighth Semester

Sl. No.	Course Code	Course Title	L	T	P	C
1	ECE429	Capstone Design-II	0	0	30	15
				Total Credits		15