

Department of Electronics and Communication Engineering

Action Taken Report (ATR) on Students Feedback for BTECH received during the AY 2020-2021

Department	Stakeholder	Feedback received	Action Taken
Department of Electronics and Communication Engineering	Student	 The students opined very good (37.89 %) about the course syllabus. The students opined good (51.55 %) about the Course's applicability to employability skills. The students opined good (45.34 %) about the course imparting Learning value in terms of skills, concepts, knowledge and analytical abilities. The students opined good (46.58%) that offering relevant laboratory courses to develop practical skills. The students opined a good (47.83%) rate of allocating credits to the courses. The choice-based credit system is required. Increase the depth of the syllabus. 	 The number of discipline elective courses has been increased to 6. Students are given a wide choice to pick courses in each area of specialization. The content of the majority of courses have been revised and are associated with the industry's need. As there was scope for improvement, the number of courses relevant to specialization streams significantly increased. 8 new courses have been integrated with their respective lab component, and many lab subjects have been modified. Also, 6 new Open Electives have been offered. Credits for a few courses have been modified as per modern industry needs. CBCS system has been proposed and introduced in 2020.







As per the feedback received, Course Content Revisions have been made as per Annexure -I and New Courses have been included in Annexure -II.

Annexure – I List of B.Tech Courses in which Content Revision

Sr. No	Code	Course Name	L	Т	Р	С
1	ECE 206	Linear Integrated Circuits	4	0	0	4
2	ECE 207	Microprocessor Programming and Interfacing	4	0	0	4
3	ECE 212	Digital Communication	3	1	0	4
4	ECE 215	VLSI Design	4	0	0	4
5	ECE 216	Information Theory and Coding	4	0	0	4
6	ECE 295	Artificial Neural Networks	3	0	0	3

Annexure – II List of B.Tech New Courses introduced

S. No.	COURSE CODE	COURSE NAME	L	т	Р	С
1	ECE1001	Elements of Electronics Engineering	3	0	2	4
2	ECE1003	Fundamentals of Electronics	3	0	0	3
3	ECE1004	Microprocessor based systems	3	0	0	3
4	ECE1005	Journey of Communication Systems (Removed)	3	0	0	3
5	ECE2001	Analog Electronics	3	0	2	4
6	ECE2002	Digital Electronics	3	0	2	4
7	ECE2003	Signals and Systems	3	0	Jon 1	ENCYU
8	ECE2004	Network Theory	3	0 🛹	EGIST OAR	Registar 2
9	ECE3001	Linear Integrated Circuits	3	0	2	PANON C
10	ECE3002	Digital Signal Processing	3	0	2	4



Approved by AICTE, New Delhi FACH GREATER HEIGH ECE3003 Microprocessor Programming and Interfacing **Electromagnetic Theory** ECE3004 Analog Communication ECE3005 ECE3007 Control Systems (Only for 2020 and 2021) VLSI Design ECE3008 ECE3009 **Transmission Lines and Waveguides** Measuring Instruments and Sensors (for 2020 batch only) ECE3010 ECE3011 **Digital Communication** ECE3012 Information Theory and Coding ECE3014 Microcontroller Applications ECE3016 **Electronic Controlled Converters** ECE3017 Linear Algebra for Communication Engineering **Engineering Applications using Software Tools** ECE3018 ECE3019 **Python Programming For Electronics Applications Computational Intelligence and Machine Learning** ECE3020 ECE3021 **Optoelectronic Materials** ECE3022 **Fundamentals of Photonics** ECE3023 Wireless Sensor Networks and IOT ECE3024 **Data Acquisition Techniques** ECE3025 Artificial Intelligence with Python Neural Networks and Deep Learning ECE3026 ECE3027 Industrial Automation and Control ECE3028 Speech Signal Processing ECE3029 **Digital Image Processing** ECE3030 Fuzzy Logic and its Engineering Applications Applications of Deep Learning ECE3031 ECE3032 Multimedia Signal Processing Adaptive Signal Processing ECE3033 ECE3034CY LIA **Bio-Instrumentation Systems** Job C ECE3033 **Biomedical Signal Processing** ECE303904C REGISTOAR Ba Prababilistic System Analysis ECE3037 Audio Signal Processing for Music Applications n

Electronic Music Production

ECE3038

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GAIN MORE KNOWLEDGE REACH GREATER HEIGHTS	Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 Established under Section 2(f) of UGC Act, 1956 Approved by AICTE, New Delhi	YEAR OF ACADEM WISDO

	44	ECE3039	DSP Processors	3	0	0	3
	45	ECE3040	Embedded Systems	3	0	0	3
	46	ECE3041	Real Time Systems	3	0	0	3
	47	ECE3042	MEMS and Nanotechnology	3	0	0	3
	48	ECE3043	Mixed Signal Circuit Design	3	0	0	3
	49	ECE3044	IC Fabrication Technology	3	0	0	3
	50	ECE3045	Sensor Technology	3	0	0	3
	51	ECE3046	Low power VLSI Design	3	0	0	3
	52	ECE3047	CAD for VLSI	3	0	0	3
	53	ECE3048	FPGA Design for Embedded Systems	3	0	0	3
	54	ECE3049	Developing Secure Embedded Systems	3	0	0	3
	55	ECE3051	Machine Learning and Deep Learning Using FPGAs	3	0	0	3
	56	ECE3052	Introduction to Embedded Machine Learning	3	0	0	3
	57	ECE3054	Mobile Communication	3	0	0	3
	58	ECE3055	Satellite Communication	3	0	0	3
	59	ECE3056	Wireless Communication and Networks	3	0	0	3
	60	ECE3057	Radar Engineering	3	0	0	3
	61	ECE3058	Radio Frequency Engineering	3	0	0	3
	62	ECE3059	Security in Computer Networks	3	0	0	3
	63	ECE3060	Wireless Adhoc Networks	3	0	0	3
	64	ECE3061	Optical Communication	3	0	0	3
	65	ECE3062	Fundamentals of Wearable Sensing	3	0	0	3
	66	ECE3063	Wearable Devices and Its Applications	3	0	0	3
	67	ECE3064	Embedded Platforms for Wearables	3	0	0	3
	68	ECE3065	RFID and Flexible Sensors	3	0	0	3
	69	ECE3066	Wireless Technologies for Wearables	3	0	0	3
	70	ECE3067	Wearable Internet of Things (WIoT)	3	0	0	3
	71	ECE3068	Embedded Intelligence in WIoT	3	0	0	3
	72	ECE3069CY	Flexible Electronics And Sensors	3	0	Oute	3
	73	ECE3070	AI & Digital Health	3	0	Jon (ENCYUS
	74	ECI 3071	Wearable and Ubiquitous Computing	3	0 🛹	EGISTOAR	Registar)
	75	ECE30V2	Secure Wearable Internet of Things	3	0	0	ANGN 3
ſ	76	ECE3073VGA	Wearable Prosthetics and Robots	3	0	0	3



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77	ECE3074	Applications of Brain Computer Interfaces	3	0	0	3
78	ECE3090	Digital System Design using VERILOG	3	0	0	3
79	ECE3091	Mathematical Physics	3	0	0	3
80	ECE3092	Photonic Integrated Circuits	3	0	0	3
81	ECE3093	Machine learning for Music Information Retrieval	3	0	0	3
82	ECE3094	Video Processing and Computer Vision	3	0	0	3
83	ECE3096	Natural Language Processing	3	0	0	3
84	ECE3108	Data Communication and Computer Networks (only for 2020 and 2021)	4	0	0	4
85	ECE3112	Antenna and Microwave Engineering (Only for 2020 Batch)	4	0	0	4







Department of Electronics and Communication Engineering Action Taken Report (ATR) on Faculty Feedback for BTECH received during the AY 2020-2021

Department	Stakeholder	Feedback received	Action Taken
Department of Electronics and Communication Engineering	Faculty	 Credits for technical courses need to be increased. Advanced courses in the core area need to be increased. There should be some weightage for the research in the CURRICULUM. 	 Inputs from faculty members were collected and deliberated, and course revisions were executed. An efficient system has been created through which regular feedback and suggestions from faculty about new topic inclusion is being included. The SOE-ECE conducts the Board of Studies (BoS) meeting twice a year. Feedback was received from the faculty on the curriculum, and the new CBCS was presented and discussed. The CBCS courses which are proposed for academic year 2021-2022, have been introduced in the AY 2020-2021.

As per the feedback received, Course Content Revisions have been made as per Annexure -I and New Courses have been included in Annexure –II.

Annexure – I List of B. Tech Courses in which Content Revision is undertaken for the Academic Year 2020-2021

	Sr. No	Code	Course Name	L	Т	Ρ	С	
	1	ECE 206	Linear Integrated Circuits	4	0	0	4	
	2	ECE 207	Microprocessor Programming and Interfacing	4	0	0	4	
	3	ECE 212	Digital Communication	3	1	0	4	
	4	ECE 215	VLSI Design	4	0	0	4	0
UB ENCY L	NIL 5	ECE 216	Information Theory and Coding	4	0	0	4	Jau
	6	ECE 295	Artificial Neural Networks	3	0	0	3	REGISTRA
A BANGAL								CALGIOTICA



Annexure – II

List of B. Tech New Courses introduced for the Academic Year 2020-2021

S. No.	COURSE CODE	COURSE NAME	L	т	Р	С
1	ECE1001	Elements of Electronics Engineering	3	0	2	4
2	ECE1003	Fundamentals of Electronics	3	0	0	3
3	ECE1004	Microprocessor based systems	3	0	0	3
4	ECE1005	Journey of Communication Systems (Removed)	3	0	0	3
5	ECE2001	Analog Electronics	3	0	2	4
6	ECE2002	Digital Electronics	3	0	2	4
7	ECE2003	Signals and Systems	3	0	2	4
8	ECE2004	Network Theory	3	0	0	3
9	ECE3001	Linear Integrated Circuits	3	0	2	4
10	ECE3002	Digital Signal Processing	3	0	2	4
11	ECE3003	Microprocessor Programming and Interfacing	3	0	2	4
12	ECE3004	Electromagnetic Theory	Electromagnetic Theory 3		0	3
13	ECE3005	Analog Communication	3	0	2	4
14	ECE3007	Control Systems (Only for 2020 and 2021)	4	0	0	4
15	ECE3008	VLSI Design	3	0	2	4
16	ECE3009	Transmission Lines and Waveguides	3	0	0	3
17	ECE3010	Measuring Instruments and Sensors (for 2020 batch only)	3	0	2	4
18	ECE3011	Digital Communication	3	0	2	4
19	ECE3012	Information Theory and Coding	3	0	0	3
20	ECE3014	Microcontroller Applications	3	0	2	4
21	ECE3016	Electronic Controlled Converters	3	0	0	3
22	ECE3017	Linear Algebra for Communication Engineering	3	0	0	3
23	ECE3018	Engineering Applications using Software Tools	3	0	0	3
24	ECE3019	Python Programming For Electronics Applications	3	0	0	a more
25	CE3020	Computational Intelligence and Machine Learning	3	0	0 💊	3 5
26	EGERRET	Optoelectronic Materials	3	0	OREG	STRAB
27	* ECE3022 *	Fundamentals of Photonics	3	0	0	3 MGA
28	ECE3023	Wireless Sensor Networks and IOT	3	0	0	3

29	ECE3024	Data Acquisition Techniques	3	0	0	3	
30	ECE3025	Artificial Intelligence with Python	3	0	0	3	
31	ECE3026	Neural Networks and Deep Learning	3	0	0	3	
32	ECE3027	Industrial Automation and Control	3	0	0	3	
33	ECE3028	Speech Signal Processing	3	0	0	3	
34	ECE3029	Digital Image Processing	3	0	0	3	
35	ECE3030	Fuzzy Logic and its Engineering Applications	3	0	0	3	
36	ECE3031	Applications of Deep Learning	3	0	0	3	
37	ECE3032	Multimedia Signal Processing	3	0	0	3	
38	ECE3033	Adaptive Signal Processing	3	0	0	3	
39	ECE3034	Bio-Instrumentation Systems	3	0	0	3	
40	ECE3035	Biomedical Signal Processing	3	0	0	3	
41	ECE3036	Prababilistic System Analysis	3	0	0	3	
42	ECE3037	Audio Signal Processing for Music Applications	3	0	0	3	
43	ECE3038	Electronic Music Production	3	0	0	3	
44	ECE3039	DSP Processors	3	0	0	3	
45	ECE3040	Embedded Systems	3	0	0	3	
46	ECE3041	Real Time Systems	3	0	0	3	
47	ECE3042	MEMS and Nanotechnology	3	0	0	3	
48	ECE3043	Mixed Signal Circuit Design	3	0	0	3	
49	ECE3044	IC Fabrication Technology	3	0	0	3	
50	ECE3045	Sensor Technology	3	0	0	3	
51	ECE3046	Low power VLSI Design	3	0	0	3	
52	ECE3047	CAD for VLSI	3	0	0	3	
53	ECE3048	FPGA Design for Embedded Systems	3	0	0	3	
54	ECE3049	Developing Secure Embedded Systems	3	0	0	3	
55	ECE3051	Machine Learning and Deep Learning Using FPGAs	3	0	0	3	
56	ECE3052	Introduction to Embedded Machine Learning	3	0	0	3	
57	ECE3054	Mobile Communication	3	0	0	3	
58	ECE3055	Satellite Communication	3	0	0	3	
59	ECE3056	Wireless Communication and Networks	3	0	0	3	
60	ECE3057	Radar Engineering	3	0	0	3	
619	ECE3058	Radio Frequency Engineering	3	0	0	ause	CX III
62	CE3059	Security in Computer Networks	3	0	0 9	3	ACT ON ES
63	ECE3A60	Wireless Adhoc Networks	3	0	OREG	STRAB	(egistrar)
64	* ECE3061 *	Optical Communication	3	0	0	3	WGALONE
65	ECE3062	Fundamentals of Wearable Sensing	3	0	0	3	

66	ECE3063	Wearable Devices and Its Applications	3	0	0	3
67	ECE3064	Embedded Platforms for Wearables	3	0	0	3
68	ECE3065	RFID and Flexible Sensors	3	0	0	3
69	ECE3066	Wireless Technologies for Wearables	3	0	0	3
70	ECE3067	Wearable Internet of Things (WIoT)	3	0	0	3
71	ECE3068	Embedded Intelligence in WIoT	3	0	0	3
72	ECE3069	Flexible Electronics And Sensors	3	0	0	3
73	ECE3070	AI & Digital Health	3	0	0	3
74	ECE3071	Wearable and Ubiquitous Computing	3	0	0	3
75	ECE3072	Secure Wearable Internet of Things	3	0	0	3
76	ECE3073	Wearable Prosthetics and Robots	3	0	0	3
77	ECE3074	Applications of Brain Computer Interfaces	3	0	0	3
78	ECE3090	Digital System Design using VERILOG	3	0	0	3
79	ECE3091	Mathematical Physics	3	0	0	3
80	ECE3092	Photonic Integrated Circuits	3	0	0	3
81	ECE3093	Machine learning for Music Information Retrieval	3	0	0	3
82	ECE3094	Video Processing and Computer Vision	3	0	0	3
83	ECE3096	Natural Language Processing	3	0	0	3
84	ECE3108	Data Communication and Computer Networks (only for 2020 and 2021)		0	0	4
85	ECE3112	Antenna and Microwave Engineering (Only for 2020 Batch)	4	0	0	4







Department of Electronics and Communication Engineering

Action Taken Report (ATR) on Employer Feedback for BTECH received during the AY 2020-2021

Department	Stakeholder	Feedback Received	Action Taken
Electronics and Communication Engineering	Employer	Please look at skills like Storage area network fundamentals, Networking fundamentals, Powershell scripting, and Python scripting.	 Many new subjects have been introduced and proposed in fundamental scripting networking. The python language is proposed for first-year students in the upcoming semester students.

As per the feedback received, Course Content Revisions have been made as per Annexure -I and New Courses have been included in Annexure –II.

Annexure – I List of B. Tech Courses in which Content Revision

Sr. No	Code	Course Name	L	Т	Р	С
1	ECE 206	Linear Integrated Circuits	4	0	0	4
2	ECE 207	Microprocessor Programming and Interfacing	4	0	0	4
3	ECE 212	Digital Communication	3	1	0	4
4	ECE 215	VLSI Design	4	0	0	4
5	ECE 216	Information Theory and Coding	4	0	0	4
6	ECE 295	Artificial Neural Networks	3	0	0	3

	A CY III	Annexure – II List of B. Tech New Courses introduced			0	
S. No.		COURSE NAME	L	Т	P	CY UNICE C C C C C C C C C C C C C C C C C C C
1	ECE1001	Elements of Electronics Engineering	3	0	2	PANGALOS
2	ECE1003 GALON	Fundamentals of Electronics	3	0	0	3

3	ECE1004	Microprocessor based systems	3	0	0	3
4	ECE1005	Journey of Communication Systems (Removed)	3	0	0	3
5	ECE2001	Analog Electronics	3	0	2	4
6	ECE2002	Digital Electronics	3	0	2	4
7	ECE2003	Signals and Systems	3	0	2	4
8	ECE2004	Network Theory	3	0	0	3
9	ECE3001	Linear Integrated Circuits	3	0	2	4
10	ECE3002	Digital Signal Processing	3	0	2	4
11	ECE3003	Microprocessor Programming and Interfacing	3	0	2	4
12	ECE3004	Electromagnetic Theory	3	0	0	3
13	ECE3005	Analog Communication	3	0	2	4
14	ECE3007	Control Systems (Only for 2020 and 2021)	4	0	0	4
15	ECE3008	VLSI Design	3	0	2	4
16	ECE3009	Transmission Lines and Waveguides	3	0	0	3
17	ECE3010	Measuring Instruments and Sensors (for 2020 batch only)	3	0	2	4
18	ECE3011	Digital Communication	3	0	2	4
19	ECE3012	Information Theory and Coding	3	0	0	3
20	ECE3014	Microcontroller Applications	3	0	2	4
21	ECE3016	Electronic Controlled Converters	3	0	0	3
22	ECE3017	Linear Algebra for Communication Engineering	3	0	0	3
23	ECE3018	Engineering Applications using Software Tools	3	0	0	3
24	ECE3019	Python Programming For Electronics Applications	3	0	0	3
25	ECE3020	Computational Intelligence and Machine Learning	3	0	0	3
26	ECE3021	Optoelectronic Materials	3	0	0	3
27	ECE3022	Fundamentals of Photonics	3	0	0	3
28	ECE3023	Wireless Sensor Networks and IOT	3	0	0	3
29	ECE3024	Data Acquisition Techniques	3	0	0	3
30	ECE3025	Artificial Intelligence with Python	3	0	0	3
31	ECE3026	Neural Networks and Deep Learning	3	0	0	3
32	ECE3027	Industrial Automation and Control	3	0	0	3
33	ECE3028	Speech Signal Processing	3	0	0	3
34	ECE3029	Digital Image Processing	3	0	0	3
35	ECE3020CY	Fuzzy Logic and its Engineering Applications	3	0	Que	3
36	ECF/30/31	Applications of Deep Learning	3	0	0	CENCY OFFICE
37	ECE303207	Multimedia Signal Processing	3	0 🚽	REGISTBAR	(Regi g trar)
38	EC 3033	Adaptive Signal Processing	3	0	0	ANGROS
39	ECE3034/GA	Bio-Instrumentation Systems	3	0	0	3

40	ECE3035	Biomedical Signal Processing	3	0	0	3
41	ECE3036	Prababilistic System Analysis	3	0	0	3
42	ECE3037	Audio Signal Processing for Music Applications	3	0	0	3
43	ECE3038	Electronic Music Production	3	0	0	3
44	ECE3039	DSP Processors	3	0	0	3
45	ECE3040	Embedded Systems	3	0	0	3
46	ECE3041	Real Time Systems	3	0	0	3
47	ECE3042	MEMS and Nanotechnology	3	0	0	3
48	ECE3043	Mixed Signal Circuit Design	3	0	0	3
49	ECE3044	IC Fabrication Technology	3	0	0	3
50	ECE3045	Sensor Technology	3	0	0	3
51	ECE3046	Low power VLSI Design	3	0	0	3
52	ECE3047	CAD for VLSI	3	0	0	3
53	ECE3048	FPGA Design for Embedded Systems	3	0	0	3
54	ECE3049	Developing Secure Embedded Systems	3	0	0	3
55	ECE3051	Machine Learning and Deep Learning Using FPGAs	3	0	0	3
56	ECE3052	Introduction to Embedded Machine Learning	3	0	0	3
57	ECE3054	Mobile Communication	3	0	0	3
58	ECE3055	Satellite Communication	3	0	0	3
59	ECE3056	Wireless Communication and Networks	3	0	0	3
60	ECE3057	Radar Engineering	3	0	0	3
61	ECE3058	Radio Frequency Engineering	3	0	0	3
62	ECE3059	Security in Computer Networks	3	0	0	3
63	ECE3060	Wireless Adhoc Networks	3	0	0	3
64	ECE3061	Optical Communication	3	0	0	3
65	ECE3062	Fundamentals of Wearable Sensing	3	0	0	3
66	ECE3063	Wearable Devices and Its Applications	3	0	0	3
67	ECE3064	Embedded Platforms for Wearables	3	0	0	3
68	ECE3065	RFID and Flexible Sensors	3	0	0	3
69	ECE3066	Wireless Technologies for Wearables	3	0	0	3
70	ECE3067	Wearable Internet of Things (WIoT)	3	0	0	3
71	ECE3068	Embedded Intelligence in WIoT	3	0	0	3
72	ECE3069CY	Flexible Electronics And Sensors	3	0	Que	3
73	ECF3070	AI & Digital Health	3	0	0	ENCI 3
74	ECE30710A	Wearable and Ubiquitous Computing	3	0 🚽	EGISTBAR	Registrar
75	EC 3072	Secure Wearable Internet of Things	3	0	0	BANGROS
76	ECE3073/GA	Wearable Prosthetics and Robots	3	0	0	3

77	ECE3074	Applications of Brain Computer Interfaces	3	0	0	3
78	ECE3090	Digital System Design using VERILOG	3	0	0	3
79	ECE3091	Mathematical Physics	3	0	0	3
80	ECE3092	Photonic Integrated Circuits	3	0	0	3
81	ECE3093	Machine learning for Music Information Retrieval	3	0	0	3
82	ECE3094	Video Processing and Computer Vision	3	0	0	3
83	ECE3096	Natural Language Processing	3	0	0	3
84	ECE3108	Data Communication and Computer Networks (only for 2020 and 2021)	4	0	0	4
85	ECE3112	Antenna and Microwave Engineering (Only for 2020 Batch)	4	0	0	4







Department of Electronics and Communication Engineering

Action Taken Report (ATR) on Alumni Feedback for BTECH received during the AY 2020-2021

Department	Stakeholder	Feedback Received	Action Taken
Electronics and Communication Engineering	Alumni	 Alumni say the PPS course was useful, improved students' skills and ideas, and boosted confidence. Be it for public speaking, class presentation or placement interviews. About 51 % of alumni suggested PPS be non-credited, while 20% of alumni said it should be credit course. A few courses must be upgraded, needs more topics on communication. Increase the depth of the syllabus. More concentration should be given to C, other programming languages, and SQL. More group discussion in PPS is needed for juniors to stay updated with current affairs and frame their views on it. 	 Suggestions by the alumni were considered. They were included in the new course introduction. 3 courses were introduced in the curriculum to improve the students' soft skills. The curriculum has been revised by adding different topics of communication which increase the depth of corporate/industry requirements. 8 new courses have been introduced to enhance programming skills. This includes projects/assignments, recent developments in every field, etc.

As per the feedback received, Course Content Revisions have been made as per Annexure -I and New Courses have been included in Annexure –II.

Ann	exure – I			
List of B.Tee	ch Courses in	which	Content	Revision

	Sr. No	Code	Course Name	L	Т	Р	С]
	1	ECE 206	Linear Integrated Circuits	4	0	0	4	
	2	ECE 207	Microprocessor Programming and Interfacing	4	0	0	4	
	3	ECE 212	Digital Communication	3	1	0	4	
	4	ECE 215	VLSI Design	4	0	0	4	0
18 SENCY	UNID	ECE 216	Information Theory and Coding	4	0	0	4	Jan
ES	d's	ECE 295	Artificial Neural Networks	3	0	0	3	REGISTRA
Ha to	AC T	<u>.</u>			<u>.</u>	<u>.</u>		



Approved by AICTE, New Delhi

Annexure – II

List of B.Tech New Courses introduced

S. No.	COURSE CODE	COURSE NAME	L	т	Р	С	
1	ECE1001	Elements of Electronics Engineering	3	0	2	4	
2	ECE1003	Fundamentals of Electronics	3	0	0	3	
3	ECE1004	Microprocessor based systems	3	0	0	3	
4	ECE1005	Journey of Communication Systems (Removed)	3	0	0	3	
5	ECE2001	Analog Electronics	3	0	2	4	
6	ECE2002	Digital Electronics	3	0	2	4	
7	ECE2003	Signals and Systems	3	0	2	4	
8	ECE2004	Network Theory	3	0	0	3	
9	ECE3001	Linear Integrated Circuits	3	0	2	4	
10	ECE3002	Digital Signal Processing	3	0	2	4	
11	ECE3003	Microprocessor Programming and Interfacing	3	0	2	4	
12	ECE3004	Electromagnetic Theory	3	0	0	3	
13	ECE3005	Analog Communication	3	0	2	4	
14	ECE3007	Control Systems (Only for 2020 and 2021)	4	0	0	4	
15	ECE3008	VLSI Design	3	0	2	4	
16	ECE3009	Transmission Lines and Waveguides	3	0	0	3	
17	ECE3010	Measuring Instruments and Sensors (for 2020 batch only)	3	0	2	4	
18	ECE3011	Digital Communication	3	0	2	4	
19	ECE3012	Information Theory and Coding	3	0	0	3	
20	ECE3014	Microcontroller Applications	3	0	2	4	
21	ECE3016	Electronic Controlled Converters	3	0	0	3	
22	ECE3017	Linear Algebra for Communication Engineering	3	0	0	3	
23	ECE3018	Engineering Applications using Software Tools	3	0	0 0	3	
24 9	2CE3019	Python Programming For Electronics Applications	3	0	0	anne	Y LIN
25	ECE3020	Computational Intelligence and Machine Learning	3	0	0	3	- ON
26	ECE3021	Optoelectronic Materials	3	0	OREGIS	TRAR 2 Re	gistra
27	*ECE3022	Fundamentals of Photonics	3	0	0	3	GALOP
28	ECE3023	Wireless Sensor Networks and IOT	3	0	0	3	



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29	ECE3024	Data Acquisition Techniques	3	0	0	3
30	ECE3025	Artificial Intelligence with Python	3	0	0	3
31	ECE3026	Neural Networks and Deep Learning	3	0	0	3
32	ECE3027	Industrial Automation and Control	3	0	0	3
33	ECE3028	Speech Signal Processing	3	0	0	3
34	ECE3029	Digital Image Processing	3	0	0	3
35	ECE3030	Fuzzy Logic and its Engineering Applications	3	0	0	3
36	ECE3031	Applications of Deep Learning	3	0	0	3
37	ECE3032	Multimedia Signal Processing	3	0	0	3
38	ECE3033	Adaptive Signal Processing	3	0	0	3
39	ECE3034	Bio-Instrumentation Systems	3	0	0	3
40	ECE3035	Biomedical Signal Processing	3	0	0	3
41	ECE3036	Prababilistic System Analysis	3	0	0	3
42	ECE3037	Audio Signal Processing for Music Applications	3	0	0	3
43	ECE3038	Electronic Music Production	3	0	0	3
44	ECE3039	DSP Processors	3	0	0	3
45	ECE3040	Embedded Systems	3	0	0	3
46	ECE3041	Real Time Systems	3	0	0	3
47	ECE3042	MEMS and Nanotechnology	3	0	0	3
48	ECE3043	Mixed Signal Circuit Design	3	0	0	3
49	ECE3044	IC Fabrication Technology	3	0	0	3
50	ECE3045	Sensor Technology	3	0	0	3
51	ECE3046	Low power VLSI Design	3	0	0	3
52	ECE3047	CAD for VLSI	3	0	0	3
53	ECE3048	FPGA Design for Embedded Systems	3	0	0	3
54	ECE3049	Developing Secure Embedded Systems	3	0	0	3
55	ECE3051	Machine Learning and Deep Learning Using FPGAs	3	0	0	3
56	ECE3052	Introduction to Embedded Machine Learning	3	0	0	3
57,0	ECE3054	Mobile Communication	3	0	0 🔪	WIR I
58	E2E3055	Satellite Communication	3	0	0	3 SENCY UNIC
59	ECF3056	Wireless Communication and Networks	3	0	REGI	STRAR
60	CE3057	Radar Engineering	3	0	0	3 TOTAL OF
61	ECE3058	Radio Frequency Engineering	3	0	0	3



ECE3059 Security in Computer Networks ECE3060 Wireless Adhoc Networks ECE3061 **Optical Communication** ECE3062 Fundamentals of Wearable Sensing Wearable Devices and Its Applications ECE3063 ECE3064 **Embedded Platforms for Wearables** ECE3065 **RFID and Flexible Sensors** Wireless Technologies for Wearables ECE3066 ECE3067 Wearable Internet of Things (WIoT) ECE3068 Embedded Intelligence in WIoT ECE3069 **Flexible Electronics And Sensors** AI & Digital Health ECE3070 ECE3071 Wearable and Ubiquitous Computing ECE3072 Secure Wearable Internet of Things ECE3073 Wearable Prosthetics and Robots **Applications of Brain Computer Interfaces** ECE3074 ECE3090 **Digital System Design using VERILOG** ECE3091 **Mathematical Physics** ECE3092 **Photonic Integrated Circuits** ECE3093 Machine learning for Music Information Retrieval ECE3094 Video Processing and Computer Vision ECE3096 Natural Language Processing ECE3108 Data Communication and Computer Networks (only for 2020 and 2021) Antenna and Microwave Engineering (Only for 2020 Batch) ECE3112



