



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	<ul style="list-style-type: none">• 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.	<ul style="list-style-type: none">• 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	T	P	C
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	T	P	C
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	2	4
9	ECE3001	Linear Integrated Circuits	3	0	2	4
10	ECE3002	Digital Signal Processing	3	0	2	4



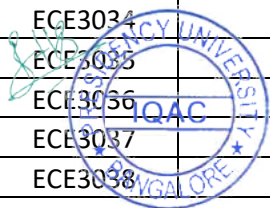
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11	ECE3003	Microprocessor Programming and Interfacing	3	0	2	4
12	ECE3004	Electromagnetic Theory	3	0	0	3
13	ECE3005	Analog Communication	3	0	2	4
14	ECE3007	Control Systems (Only for 2020 and 2021)	4	0	0	4
15	ECE3008	VLSI Design	3	0	2	4
16	ECE3009	Transmission 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	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





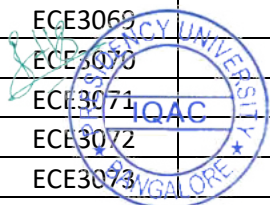
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44	ECE3039	DSP Processors	3	0	0	3
45	ECE3040	Embedded Systems	3	0	0	3
46	ECE3041	Real Time Systems	3	0	0	3
47	ECE3042	MEMS and Nanotechnology	3	0	0	3
48	ECE3043	Mixed Signal Circuit Design	3	0	0	3
49	ECE3044	IC Fabrication Technology	3	0	0	3
50	ECE3045	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	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





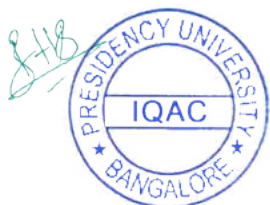
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77	ECE3074	Applications of Brain Computer Interfaces	3	0	0	3
78	ECE3090	Digital System Design using VERILOG	3	0	0	3
79	ECE3091	Mathematical Physics	3	0	0	3
80	ECE3092	Photonic Integrated Circuits	3	0	0	3
81	ECE3093	Machine learning for Music Information 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

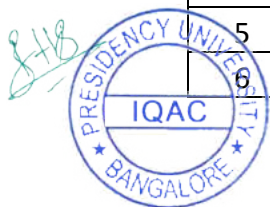
Department	Stakeholder	Feedback received	Action Taken
Department of Electronics and Communication Engineering	Faculty	<ul style="list-style-type: none">❖ Credits for technical courses need to be increased.❖ Advanced courses in the core area need to be increased.❖ There should be some weightage for the research in the CURRICULUM.	<ul style="list-style-type: none">❖ 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	T	P	C
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

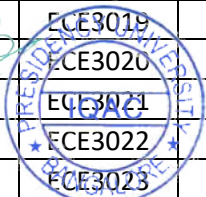




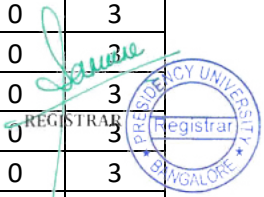
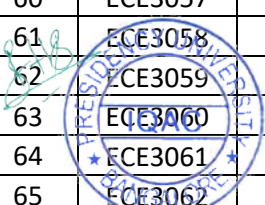
Annexure – II

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

S. No.	COURSE CODE	COURSE NAME	L	T	P	C
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	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	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
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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
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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	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)	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 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.	<ul style="list-style-type: none"> ➤ 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.

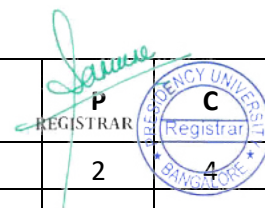
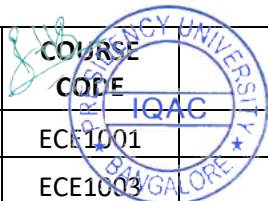
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3	ECE 212	Digital Communication	3	1	0	4
4	ECE 215	VLSI Design	4	0	0	4
5	ECE 216	Information Theory and Coding	4	0	0	4
6	ECE 295	Artificial Neural Networks	3	0	0	3

Annexure – II List of B. Tech New Courses introduced

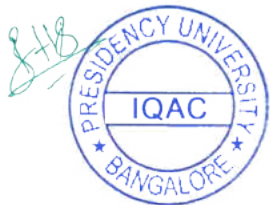
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2	ECE1003	Fundamentals of Electronics	3	0	0	3



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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
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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
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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
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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
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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	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)	4	0	0	4
85	ECE3112	Antenna and Microwave Engineering (Only for 2020 Batch)	4	0	0	4





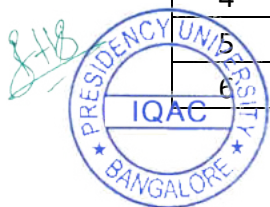
Department of Electronics and Communication Engineering Action Taken Report (ATR) on Alumni Feedback for BTECH received during the AY 2020-2021

Department	Stakeholder	Feedback Received	Action Taken
Electronics and Communication Engineering	Alumni	<ul style="list-style-type: none">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.	<ul style="list-style-type: none">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.

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

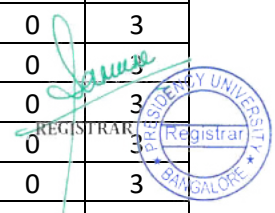
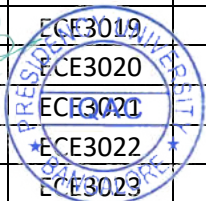
Sr. No	Code	Course Name	L	T	P	C
1	ECE 206	Linear Integrated Circuits	4	0	0	4
2	ECE 207	Microprocessor Programming and Interfacing	4	0	0	4
3	ECE 212	Digital Communication	3	1	0	4
4	ECE 215	VLSI Design	4	0	0	4
5	ECE 216	Information Theory and Coding	4	0	0	4
6	ECE 295	Artificial Neural Networks	3	0	0	3





Annexure – II List of B.Tech New Courses introduced

S. No.	COURSE CODE	COURSE NAME	L	T	P	C
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	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





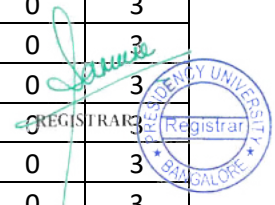
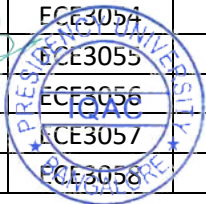
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29	ECE3024	Data Acquisition Techniques	3	0	0	3
30	ECE3025	Artificial Intelligence with Python	3	0	0	3
31	ECE3026	Neural Networks and Deep Learning	3	0	0	3
32	ECE3027	Industrial Automation and Control	3	0	0	3
33	ECE3028	Speech Signal Processing	3	0	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	Probabilistic 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





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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	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)	4	0	0	4
85	ECE3112	Antenna and Microwave Engineering (Only for 2020 Batch)	4	0	0	4

