Department of Electronics and Communication Engineering

Action Taken Report (ATR) on Students Feedback for BTECH received during the AY 2021-2022

Department	Stakeholder	Feedback received	Action Taken
Department of Electronics and Communication Engineering	Student	➢ The students opined very good (58.13 %) about the offering of the electives in terms of their relevance to the specialization streams and experiments about the real-life applications. ➢ The students opined very good (54.07 %) about the Course's applicability to employability skill. ➢ The students opined very good (49.52 %) about the Course imparting entrepreneurial skill. ➢ The students opined very good (50%) for offering relevant laboratory courses to develop practical skills. ➢ The students opined very good (52.39%) that the curriculum creates social awareness on social issues. ➢ The students opined very good (54.07%) for having good courses for soft skills. ➢ The students opined very good (55.98%) for curriculum structure looks appropriate to develop the necessary skill set and impart the knowledge required for a professional.	• The number of discipline elective courses has been increased. Students are given an option to choose courses from each area of specialization. • The content of the majority of courses have been revised and are associated with the industry needs. • Every course has been mapped for employability, entrepreneurship or skill development with a change in content. • As there was scope for improvement, the number of courses relevant to specialization streams significantly increased. • E-Library resources have been integrated with all courses, so that students can access them anytime, anywhere. • Many new courses have been integrated with their respective Lab components, and many lab subjects have been modified by more than 20%. Also, many new Open Electives have been offered. • Credits for a few courses have been modified to suit the need of the modern industry.

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

PRESIDENCY UNIVERSITY IQAC BANGALORE

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

Annexure – I

List of B.Tech Courses in which Content Revision

Sr. No	Code	Course Name	L	T	P	C	% Revision	Remark	Year
1	ECE 307	Digital Image Processing	3	0	0	3	50	Content Revision	2021
2	ECE 308	Embedded System Design Using ARM	3	0	0	3	50	Content Revision	2021
3	ECE 310	Fuzzy Logic and Its Engineering Applications	3	0	0	3	50	Content Revision	2021
4	ECE1004	Microprocessor based systems	3	0	0	3	25	Content Revision	2021
5	ECE2001	Analog Electronics	3	0	2	4	25	Content Revision	2021
6	ECE2002	Digital Electronics	3	0	2	4	25	Content Revision	2021
7	ECE2003	Signals and Systems	3	0	2	4	25	Content Revision	2021
8	ECE2004	Network Theory	3	0	0	3	25	Content Revision	2021
9	ECE3001	Linear Integrated Circuits	3	0	2	4	25	Content Revision	2021
10	ECE3002	Digital Signal Processing	3	0	2	4	25	Content Revision	2021
11	ECE3003	Microprocessor Programming and Interfacing	3	0	2	4	25	Content Revision	2021
12	ECE3004	Electromagnetic Theory	3	0	0	3	25	Content Revision	2021
13	ECE3005	Analog Communication	3	0	2	4	25	Content Revision	2021
14	ECE3009	Transmission Lines and Waveguides	3	0	0	3	25	Content Revision	2021
15	ECE3010	Measuring Instruments and Sensors (for 2020 batch only)	3	0	2	4	25	Content Revision	2021
16	ECE3011	Digital Communication	3	0	2	4	25	Content Revision	2021
17	ECE3012	Information Theory and Coding	3	0	0	3	25	Content Revision	2021
18	ECE3014	Microcontroller Applications	3	0	2	4	25	Content Revision	2021
19	ECE3016	Electronic Controlled Converters	3	0	0	3	25	Content Revision	2021
20	ECE3017	Linear Algebra for Communication Engineering	3	0	0	3	25	Content Revision	2021
21	ECE3018	Engineering Applications using Software Tools	3	0	0	3	25	Content Revision	2021
22	ECE3019	Python Programming For Electronics Applications	3	0	0	3	25	Content Revision	2021

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Registrar

23	ECE3020	Computational Intelligence and Machine Learning	3	0	0	3	25	Content Revision	2021
24	ECE3021	Optoelectronic Materials	3	0	0	3	25	Content Revision	2021
25	ECE3022	Fundamentals of Photonics	3	0	0	3	25	Content Revision	2021
26	ECE3023	Wireless Sensor Networks and IOT	3	0	0	3	25	Content Revision	2021
27	ECE3024	Data Acquisition Techniques	3	0	0	3	25	Content Revision	2021
28	ECE3025	Artificial Intelligence with Python	3	0	0	3	25	Content Revision	2021
29	ECE3026	Neural Networks and Deep Learning	3	0	0	3	25	Content Revision	2021
30	ECE3027	Industrial Automation and Control	3	0	0	3	25	Content Revision	2021
31	ECE3028	Speech Signal Processing	3	0	0	3	25	Content Revision	2021
32	ECE3029	Digital Image Processing	3	0	0	3	25	Content Revision	2021
33	ECE3030	Fuzzy Logic and its Engineering Applications	3	0	0	3	25	Content Revision	2021
34	ECE3031	Applications of Deep Learning	3	0	0	3	25	Content Revision	2021
35	ECE3032	Multimedia Signal Processing	3	0	0	3	25	Content Revision	2021
36	ECE3033	Adaptive Signal Processing	3	0	0	3	25	Content Revision	2021
37	ECE3034	Bio-Instrumentation Systems	3	0	0	3	25	Content Revision	2021
38	ECE3035	Biomedical Signal Processing	3	0	0	3	25	Content Revision	2021
39	ECE3036	Prababilistic System Analysis	3	0	0	3	25	Content Revision	2021
40	ECE3037	Audio Signal Processing for Music Applications	3	0	0	3	25	Content Revision	2021
41	ECE3038	Electronic Music Production	3	0	0	3	25	Content Revision	2021
42	ECE3039	DSP Processors	3	0	0	3	25	Content Revision	2021
43	ECE3040	Embedded Systems	3	0	0	3	25	Content Revision	2021
44	ECE3041	Real Time Systems	3	0	0	3	25	Content Revision	2021
45	ECE3042	MEMS and Nanotechnology	3	0	0	3	25	Content Revision	2021
46	ECE3043	Mixed Signal Circuit Design	3	0	0	3	25	Content Revision	2021
47	ECE3044	IC Fabrication Technology	3	0	0	3	25	Content Revision	2021
48	ECE3045	Sensor Technology	3	0	0	3	25	Content Revision	2021
49	ECE3046	Low power VLSI Design	3	0	0	3	25	Content Revision	2021
50	ECE3047	CAD for VLSI	3	0	0	3	25	Content Revision	2021
51	ECE3048	FPGA Design for Embedded Systems	3	0	0	3	25	Content Revision	2021

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Annexure – II

List of B.Tech New Courses introduced

S. No.	COURSE CODE	COURSE NAME	L	T	P	C	Year of Introduction
1	ECE2006	Digital Electronics (2021 Batch Only)	2	0	2	3	2021-22
2	ECE2007	Digital Design (CSE 2021 Batch Onwards)	2	0	2	3	2021-22
3	ECE2008	Signals and Systems (2021 Batch Only)	3	0	0	3	2021-22
4	ECE3013	Antenna and Wave Propagation	3	0	0	3	2021-22
5	ECE3015	Measuring Instruments and Sensors (from 2021 onwards)	3	0	0	3	2021-22
6	ECE3050	Design for Testability	3	0	0	3	2021-22
7	ECE3075	IoT: Architecture and Protocols	3	0	0	3	2021-22
8	ECE3076	IoT Platforms and Application Development	3	0	0	3	2021-22
9	ECE3077	Wireless Protocols for IoT	3	0	0	3	2021-22
10	ECE3078	IoT and Cloud Computing	3	0	0	3	2021-22
11	ECE3079	Fog Computing	3	0	0	3	2021-22
12	ECE3080	IoT Edge Nodes and its Applications	3	0	0	3	2021-22
13	ECE3081	Security and Privacy in Traditional IoT Systems	3	0	0	3	2021-22
14	ECE3082	Data Science for IoT	3	0	0	3	2021-22
15	ECE3083	Hardware and Software Architectures for IoT Systems	3	0	0	3	2021-22
16	ECE3084	Mobile App Development for IoT	3	0	0	3	2021-22
17	ECE3085	Security and Privacy in Edge Native Solutions	3	0	0	3	2021-22
18	ECE3086	Industrial Internet of Things (IIoT)	3	0	0	3	2021-22
19	ECE3087	IoT Robots	3	0	0	3	2021-22
20	ECE3088	Internet of Medical Things (IoMT)	3	0	0	3	2021-22

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REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

Department of Electronics and Communication Engineering

Action Taken Report (ATR) on Faculty Feedback for BTECH received during the AY 2021-2022

Department	Stakeholder	Feedback received	Action Taken
Electronics and Communication Engineering	Faculty	➢ 73.91% of faculty rate the curriculum excellent is balanced with the requisite number of Foundation, core and elective courses ➢ 63.04% and 56.52% of faculty have opined (very good) Syllabus is sufficient to impart skills for employability and entrepreneurial skills to students. ➢ 52.52% of faculty (very good) opined the curriculum has the sufficient component of Laboratory courses to develop the practical skills in the students ➢ 63.04% of the faculty have opined that they have the freedom to propose, modify, suggest and incorporate new topics in the Syllabus. ➢ 67.39% of the faculty have opined that they have the total freedom to adopt new techniques/strategies of teaching, such as seminar presentations, group discussions and learner participation ➢ More than 90% of faculty think that the department has either excellent or very good environment for teaching and research.	• Inputs from faculty members were collected and deliberated and course revisions were implemented. • The application aspect of each course has been enhanced by thorough content revision. • An enhanced system has been created through which regular feedback and suggestions from faculty members about new topic is being included. • The SOE-ECE conducts the Board of Studies (BoS) meeting twice a year. Feedback was received from the faculty members on the curriculum, and new CBCS were presented and discussed.

PRESIDENCY UNIVERSITY IQAC BANGALORE

REGISTRAR

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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 307	Digital Image Processing	3	0	0	3
2	ECE 308	Embedded System Design Using ARM	3	0	0	3
3	ECE 310	Fuzzy Logic and Its Engineering Applications	3	0	0	3
4	ECE1004	Microprocessor based systems	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	ECE3009	Transmission Lines and Waveguides	3	0	0	3
15	ECE3010	Measuring Instruments and Sensors (for 2020 batch only)	3	0	2	4
16	ECE3011	Digital Communication	3	0	2	4
17	ECE3012	Information Theory and Coding	3	0	0	3
18	ECE3014	Microcontroller Applications	3	0	2	4
19	ECE3016	Electronic Controlled Converters	3	0	0	3
20	ECE3017	Linear Algebra for Communication Engineering	3	0	0	3
21	ECE3018	Engineering Applications using Software Tools	3	0	0	3
22	ECE3019	Python Programming For Electronics Applications	3	0	0	3

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REGISTRAR

23	ECE3020	Computational Intelligence and Machine Learning	3	0	0	3
24	ECE3021	Optoelectronic Materials	3	0	0	3
25	ECE3022	Fundamentals of Photonics	3	0	0	3
26	ECE3023	Wireless Sensor Networks and IOT	3	0	0	3
27	ECE3024	Data Acquisition Techniques	3	0	0	3
28	ECE3025	Artificial Intelligence with Python	3	0	0	3
29	ECE3026	Neural Networks and Deep Learning	3	0	0	3
30	ECE3027	Industrial Automation and Control	3	0	0	3
31	ECE3028	Speech Signal Processing	3	0	0	3
32	ECE3029	Digital Image Processing	3	0	0	3
33	ECE3030	Fuzzy Logic and its Engineering Applications	3	0	0	3
34	ECE3031	Applications of Deep Learning	3	0	0	3
35	ECE3032	Multimedia Signal Processing	3	0	0	3
36	ECE3033	Adaptive Signal Processing	3	0	0	3
37	ECE3034	Bio-Instrumentation Systems	3	0	0	3
38	ECE3035	Biomedical Signal Processing	3	0	0	3
39	ECE3036	Prababilistic System Analysis	3	0	0	3
40	ECE3037	Audio Signal Processing for Music Applications	3	0	0	3
41	ECE3038	Electronic Music Production	3	0	0	3
42	ECE3039	DSP Processors	3	0	0	3
43	ECE3040	Embedded Systems	3	0	0	3
44	ECE3041	Real Time Systems	3	0	0	3
45	ECE3042	MEMS and Nanotechnology	3	0	0	3
46	ECE3043	Mixed Signal Circuit Design	3	0	0	3
47	ECE3044	IC Fabrication Technology	3	0	0	3
48	ECE3045	Sensor Technology	3	0	0	3
49	ECE3046	Low power VLSI Design	3	0	0	3
50	ECE3047	CAD for VLSI	3	0	0	3
51	ECE3048	FPGA Design for Embedded Systems	3	0	0	3

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REGISTRAR

Annexure – II

List of B.Tech New Courses introduced

S. No.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE2006	Digital Electronics (2021 Batch Only)	2	0	2	3
2	ECE2007	Digital Design (CSE 2021 Batch Onwards)	2	0	2	3
3	ECE2008	Signals and Systems (2021 Batch Only)	3	0	0	3
4	ECE3013	Antenna and Wave Propagation	3	0	0	3
5	ECE3015	Measuring Instruments and Sensors (from 2021 onwards)	3	0	0	3
6	ECE3050	Design for Testability	3	0	0	3
7	ECE3075	IoT: Architecture and Protocols	3	0	0	3
8	ECE3076	IoT Platforms and Application Development	3	0	0	3
9	ECE3077	Wireless Protocols for IoT	3	0	0	3
10	ECE3078	IoT and Cloud Computing	3	0	0	3
11	ECE3079	Fog Computing	3	0	0	3
12	ECE3080	IoT Edge Nodes and its Applications	3	0	0	3
13	ECE3081	Security and Privacy in Traditional IoT Systems	3	0	0	3
14	ECE3082	Data Science for IoT	3	0	0	3
15	ECE3083	Hardware and Software Architectures for IoT Systems	3	0	0	3
16	ECE3084	Mobile App Development for IoT	3	0	0	3
17	ECE3085	Security and Privacy in Edge Native Solutions	3	0	0	3
18	ECE3086	Industrial Internet of Things (IIoT)	3	0	0	3
19	ECE3087	IoT Robots	3	0	0	3
20	ECE3088	Internet of Medical Things (IoMT)	3	0	0	3

PRESIDENCY UNIVERSITY IQAC BANGALORE

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

Department of Electronics and Communication Engineering

Action Taken Report (ATR) on Employer Feedback for BTECH received during the AY 2021-2022

Department	Stakeholder	Feedback Received	Action Taken
Electronics and Communication Engineering	Employer	➢ Students need to be aware of industry exposure. ➢ The recruiters from IT companies and other industries suggested that students must be more participative and work with teams more effectively.	• Invited resource persons from industries addressed the students. • The soft skill training focused more on participative games and team building.

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

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

Sr. No	Code	Course Name	L	T	P	C
1	ECE 307	Digital Image Processing	3	0	0	3
2	ECE 308	Embedded System Design Using ARM	3	0	0	3
3	ECE 310	Fuzzy Logic and Its Engineering Applications	3	0	0	3
4	ECE1004	Microprocessor based systems	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	ECE3009	Transmission Lines and Waveguides	3	0	0	3
15	ECE3010	Measuring Instruments and Sensors (for 2020 batch only)	3	0	2	4
16	ECE3011	Digital Communication	3	0	2	4
17	ECE3012	Information Theory and Coding	3	0	0	3
18	ECE3014	Microcontroller Applications	3	0	2	4
19	ECE3016	Electronic Controlled Converters	3	0	0	3
20	ECE3017	Linear Algebra for Communication Engineering	3	0	0	3
21	ECE3018	Engineering Applications using Software Tools	3	0	0	3
22	ECE3019	Python Programming For Electronics Applications	3	0	0	3
23	ECE3020	Computational Intelligence and Machine Learning	3	0	0	3
24	ECE3021	Optoelectronic Materials	3	0	0	3
25	ECE3022	Fundamentals of Photonics	3	0	0	3
26	ECE3023	Wireless Sensor Networks and IOT	3	0	0	3
27	ECE3024	Data Acquisition Techniques	3	0	0	3
28	ECE3025	Artificial Intelligence with Python	3	0	0	3
29	ECE3026	Neural Networks and Deep Learning	3	0	0	3
30	ECE3027	Industrial Automation and Control	3	0	0	3
31	ECE3028	Speech Signal Processing	3	0	0	3
32	ECE3029	Digital Image Processing	3	0	0	3
33	ECE3030	Fuzzy Logic and its Engineering Applications	3	0	0	3
34	ECE3031	Applications of Deep Learning	3	0	0	3
35	ECE3032	Multimedia Signal Processing	3	0	0	3
36	ECE3033	Adaptive Signal Processing	3	0	0	3
37	ECE3034	Bio-Instrumentation Systems	3	0	0	3
38	ECE3035	Biomedical Signal Processing	3	0	0	3
39	ECE3036	Prababilistic System Analysis	3	0	0	3
40	ECE3037	Audio Signal Processing for Music Applications	3	0	0	3
41	ECE3038	Electronic Music Production	3	0	0	3
42	ECE3039	DSP Processors	3	0	0	3

43	ECE3040	Embedded Systems	3	0	0	3
44	ECE3041	Real Time Systems	3	0	0	3
45	ECE3042	MEMS and Nanotechnology	3	0	0	3
46	ECE3043	Mixed Signal Circuit Design	3	0	0	3
47	ECE3044	IC Fabrication Technology	3	0	0	3
48	ECE3045	Sensor Technology	3	0	0	3
49	ECE3046	Low power VLSI Design	3	0	0	3
50	ECE3047	CAD for VLSI	3	0	0	3
51	ECE3048	FPGA Design for Embedded Systems	3	0	0	3

Annexure – II
List of B.Tech New Courses introduced

S. No.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE2006	Digital Electronics (2021 Batch Only)	2	0	2	3
2	ECE2007	Digital Design (CSE 2021 Batch Onwards)	2	0	2	3
3	ECE2008	Signals and Systems (2021 Batch Only)	3	0	0	3
4	ECE3013	Antenna and Wave Propagation	3	0	0	3
5	ECE3015	Measuring Instruments and Sensors (from 2021 onwards)	3	0	0	3
6	ECE3050	Design for Testability	3	0	0	3
7	ECE3075	IoT: Architecture and Protocols	3	0	0	3
8	ECE3076	IoT Platforms and Application Development	3	0	0	3
9	ECE3077	Wireless Protocols for IoT	3	0	0	3
10	ECE3078	IoT and Cloud Computing	3	0	0	3
11	ECE3079	Fog Computing	3	0	0	3
12	ECE3080	IoT Edge Nodes and its Applications	3	0	0	3
13	ECE3081	Security and Privacy in Traditional IoT Systems	3	0	0	3
14	ECE3082	Data Science for IoT	3	0	0	3
15	ECE3083	Hardware and Software Architectures for IoT Systems	3	0	0	3
16	ECE3084	Mobile App Development for IoT	3	0	0	3
17	ECE3085	Security and Privacy in Edge Native Solutions	3	0	0	3

18	ECE3086	Industrial Internet of Things (IIoT)	3	0	0	3
19	ECE3087	IoT Robots	3	0	0	3
20	ECE3088	Internet of Medical Things (IoMT)	3	0	0	3

PRESIDENCY UNIVERSITY IQAC BANGALORE

REGISTRAR

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Department of Electronics and Communication Engineering

Action Taken Report (ATR) on Alumni Feedback for BTECH received during the AY 2021-2022

Department	Stakeholder	Feedback Received	Action Taken
Electronics and Communication Engineering	Alumni	• The alumni opined very good (50 %) that the curriculum is balanced with the requisite number of Foundation, core and elective courses. • 28.57% of alumni opined curriculum offers enough flexibility to the students to choose the course • The majority of the students think that have opined good course curriculum fulfilling their expectations (employability skills, entrepreneurial skills) • 42.86% rate very good overall credit structure of the program. • Alumni have opined (57.14%) that the curriculum structure looks to be appropriate to develop the necessary skill set and impart the knowledge required for a professional.	• Suggestions by the alumni were considered. They were included in the new course introduction. • The curriculum has been revised by adding corporate/industry requirements in every area of specialization. This includes projects/assignments, recent developments in every field, etc. • Many new courses have been introduced to meet the need of the industry.

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 307	Digital Image Processing	3	0	0	3
2	ECE 308	Embedded System Design Using ARM	3	0	0	3
3	ECE 310	Fuzzy Logic and Its Engineering Applications	3	0	0	3
4	ECE1004	Microprocessor based systems	3	0	0	3
5	ECE2001	Analog Electronics	3	0	2	4

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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	ECE3009	Transmission Lines and Waveguides	3	0	0	3
15	ECE3010	Measuring Instruments and Sensors (for 2020 batch only)	3	0	2	4
16	ECE3011	Digital Communication	3	0	2	4
17	ECE3012	Information Theory and Coding	3	0	0	3
18	ECE3014	Microcontroller Applications	3	0	2	4
19	ECE3016	Electronic Controlled Converters	3	0	0	3
20	ECE3017	Linear Algebra for Communication Engineering	3	0	0	3
21	ECE3018	Engineering Applications using Software Tools	3	0	0	3
22	ECE3019	Python Programming For Electronics Applications	3	0	0	3
23	ECE3020	Computational Intelligence and Machine Learning	3	0	0	3
24	ECE3021	Optoelectronic Materials	3	0	0	3
25	ECE3022	Fundamentals of Photonics	3	0	0	3
26	ECE3023	Wireless Sensor Networks and IOT	3	0	0	3
27	ECE3024	Data Acquisition Techniques	3	0	0	3
28	ECE3025	Artificial Intelligence with Python	3	0	0	3
29	ECE3026	Neural Networks and Deep Learning	3	0	0	3
30	ECE3027	Industrial Automation and Control	3	0	0	3
31	ECE3028	Speech Signal Processing	3	0	0	3
32	ECE3029	Digital Image Processing	3	0	0	3
33	ECE3030	Fuzzy Logic and its Engineering Applications	3	0	0	3
34	ECE3031	Applications of Deep Learning	3	0	0	3

35	ECE3032	Multimedia Signal Processing	3	0	0	3
36	ECE3033	Adaptive Signal Processing	3	0	0	3
37	ECE3034	Bio-Instrumentation Systems	3	0	0	3
38	ECE3035	Biomedical Signal Processing	3	0	0	3
39	ECE3036	Prababilistic System Analysis	3	0	0	3
40	ECE3037	Audio Signal Processing for Music Applications	3	0	0	3
41	ECE3038	Electronic Music Production	3	0	0	3
42	ECE3039	DSP Processors	3	0	0	3
43	ECE3040	Embedded Systems	3	0	0	3
44	ECE3041	Real Time Systems	3	0	0	3
45	ECE3042	MEMS and Nanotechnology	3	0	0	3
46	ECE3043	Mixed Signal Circuit Design	3	0	0	3
47	ECE3044	IC Fabrication Technology	3	0	0	3
48	ECE3045	Sensor Technology	3	0	0	3
49	ECE3046	Low power VLSI Design	3	0	0	3
50	ECE3047	CAD for VLSI	3	0	0	3
51	ECE3048	FPGA Design for Embedded Systems	3	0	0	3

Annexure – II
List of B.Tech New Courses introduced

S. No.	COURSE CODE	COURSE NAME	L	T	P	C
1	ECE2006	Digital Electronics (2021 Batch Only)	2	0	2	3
2	ECE2007	Digital Design (CSE 2021 Batch Onwards)	2	0	2	3
3	ECE2008	Signals and Systems (2021 Batch Only)	3	0	0	3
4	ECE3013	Antenna and Wave Propagation	3	0	0	3
5	ECE3015	Measuring Instruments and Sensors (from 2021 onwards)	3	0	0	3
6	ECE3050	Design for Testability	3	0	0	3
7	ECE3075	IoT: Architecture and Protocols	3	0	0	3
8	ECE3076	IoT Platforms and Application Development	3	0	0	3

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9	ECE3077	Wireless Protocols for IoT	3	0	0	3
10	ECE3078	IoT and Cloud Computing	3	0	0	3
11	ECE3079	Fog Computing	3	0	0	3
12	ECE3080	IoT Edge Nodes and its Applications	3	0	0	3
13	ECE3081	Security and Privacy in Traditional IoT Systems	3	0	0	3
14	ECE3082	Data Science for IoT	3	0	0	3
15	ECE3083	Hardware and Software Architectures for IoT Systems	3	0	0	3
16	ECE3084	Mobile App Development for IoT	3	0	0	3
17	ECE3085	Security and Privacy in Edge Native Solutions	3	0	0	3
18	ECE3086	Industrial Internet of Things (IIoT)	3	0	0	3
19	ECE3087	IoT Robots	3	0	0	3
20	ECE3088	Internet of Medical Things (IoMT)	3	0	0	3

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