![Chaitanya Bharathi Institute of Technology logo]

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

An Autonomous Institute | Affiliated to Osmania University
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbit.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION — 45 years

Electrical and Electronics Engineering

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution

S.No	Course Code	Couse Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	C201	18MTC07-Applied mathematics	2.08	1.83	1.72	1.84								1.71	2.2	1.6	0.98
2	C202	18EE C03-Analog Electronic Circuits	1.77	1.6	1.26	1.01	1.145	0.5	0.25	0.6	0.5	0.5	0.5	0.5	1.26	1.77	1.26
3	C203	18EE C04-Electrical Measurements and Instrumentation	2.2	1.47	1.34	1.47	1.47				0.73	0.73		1.47		2.2	2.05
4	C204	18EE C05-Electromagnetic Fields	1.68	1.68	0.84	0.84					0.84	0.84		0.84	0.98	1.82	
5	C205	18EE C06-Electrical Circuit Analysis	1.53	1.53	1.1	1.27	0.93								0.51	1.02	
6	C206	18EE C07-Analog Electronic Circuits Lab	2.22	1.48	1.63	0.89	1.48	1.48	1.48						1.48		1.48
7	C207	18EE C08-Electrical Measurements and Instrumentation Lab	1.92	1.28	1.28	1.28	0.64	0.64	0.64		0.64	0.64		0.64	0.64	1.28	
8	C208	18EG M 01-Indian constitution	1.52	1.58	1.58	1.1	1.1	0.61						0.61	0.98	1.12	1.22
9	C209	18EE M01-Indian Traditional Knowledge	1.66	1.48	1.66	1.66	1.66				1.11			1.66	1.48	1.01	
10	C210	18CS C05-Basics of Data Structures	1.9	2.07	0.69	1.38											2.07
11	C211	18EE C09-Digital Electronics	2.06	2.19	1.54	1.93	1.8				1.54				1.93	2.32	1.39
12	C212	18EE C10-Electrical Machines-1	1.92	1.53	1.53	1.15	0.64								0.64	1.28	1.28
13	C213	18EE C11-Power Systems-I	2	1.295	0.945	1.53	0.825	1.415			0.705	0.705	0.705	1.415	0.705	1.415	1.415
14	C214	18EE C12-Digital Electronics Lab	1.99	1.88	1.66	1.44	1.66								1.66	1.99	1.55
15	C215	18EE C13-Electrical Machines-1 Lab	2.21	1.32	1.58	1.18	1.18	1.58	2.37		1.42	0.79	0.79	1.42	1.18	1.26	1.26
16	C216	18ME C09-Principles of Management	1.7	1.7	1.44	1.96								0.65	1.7	1.74	1.96
17	C217	18CE M01-Environmental Science	2.63	1.75	0.875	1.46	0.875		0.875		1.61	0.875	0.875	1.46	0.875	2.045	1.75
18	C218	18EG C03-Soft Skills Lab	1.59	1.59	1.59	1.06	1.59				1. 59			0.53	1.16	1.23	1.32

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#	Code	Course															
19	C219	18CS C06-Basics of Data Structures lab	2.15	1.805	1.32	2.08		1.53	0.76						0.76	1.53	0.76
20	C301	18EEC14-Electrical Machines-II	2.2	1.47	1.34	1.47	1.47			0.73	0.73		1.47			2.2	2.05
21	C302	18EEC15-Power Systems-II	2.15	1.69	1.38	2.15									0.77	1.66	1.92
22	C303	18EEC16-Power Electronics	1.1	0.66	0.99	0.88	0.88	0.99		0.88	0.66	0.88	0.99		1.32	1.32	1.1
23	C304	18EEE01-Wind and Solar Energy	1.91	0.88						1.76	1.61		0.88	2.64	0.88	0.88	
24	C305	18EEE02-Optimization Techniques	2.15	1.21	1.61	1.61	1.77				1.61		0.81	1.75	1.61	1.01	1.21
25	C306	18EEE03-Electrical Engineering Materials	1.8	0.9	1.95	1.2	1.2				1.05	0.9		1.95	2.7	1.8	1.8
26	C307	18EEE05-Simulation Techniques in Electrical Engineering	2.81	2.66	2.19	1.88	2.03				0.94		0.94	0.94	2.81	2.81	1.88
27	C308	18EEE07-Industrial Electrical Systems	2.88	2.72	2.4	1.92	2.08	2.88	1.92	1.92	2.88	2.88	1.44	1.92	2.88	1.92	1.92
28	C309	18EEE08-Electrical Estimation & Costing		2.45	1.92	1.97	1.87	1.88	1.12	1.14	0.51	1.97	1.82	1.91	1.91	1.93	2.08
30	C311	18EEC17-Electrical Machines-II Lab	2.07	1.24	1.1	1.72	0.96								1.1		1.5
31	C312	18EEC18-Power Systems-I Lab	2.01	1.98	1.71	1.44	1.19	0.45	0.47	0.51	1.28	0.49	0.44	0.44	0.42	1.4	1.38
32	C313	18EEC19-Power Electronics Lab	2.18	1.82	2.18	1.21	1.36	0.91	1.36	0.91				1.36	2.72	1.36	1.63
33	C314	18EEC20-Control Systems	2.71	1.93	2.52	1.16	2.37	1.2	1.23	0.51	1.86	1.24	1.34	0.44	0.46	1.99	1.97
34	C315	18EEC21-Microprocessors and Microcontrollers	1.07	0.85	0.75	1.17	0.53						0.43	0.32	1.6	0.96	0.64
35	C316	18EEC22-Power Systems Operation and Control	2.25	1.69	1.05	1.35	0.15	1.05	1.05		0.9	0.45	0.6	1.05	0	2.25	2.1
36	C317	18EEE09-Power Quality	2.23	1.75	1.8	1.7	1.72	1.04	1.07	0.51	1.8	1.67	1.74	1.74	1.76	1.9	1.06
37	C318	18EEE11-Electrical Distribution Systems	1.68	1.49	0.56	0.75		0.56			0.56					1.26	
38	C319	18EEE12-HVDC Transmission Systems	1	1	1	1	1	1									
39	C320	18EEE13-AI Techniques in Electrical Engineering	1.57	2.34	1.82	1.84	1.20							1.64	1.37	1.19	0.95
40	C321	18EEE14-Electric Hybrid Vehicles	1.87	1.74	1.87	1.37	1.49				1.62			0.75	1.49	1.87	1.37
41	C322	18CSO07-Basics of Cyber Security	2.05	2.21	1.42	1.84	1.89				1.58				1.89	2.37	1.38
42	C323	18ECO06-Principles of Embedded Systems	1.74	1.74	1.51	1.51			0.70		0.70			0.70	1.74	1.74	1.74
43	C324	18EEC23-Control Systems Lab	1.49	1.76	1.80	1.76	0.81							0.68	2.03	1.62	1.89
44	C325	18EEC24-Microprocessors Lab	1.87	1.74	1.87	1.37	1.49				1.62			0.75	1.49	1.87	1.37
45	C401	18EEC25-Power System Protection	2.05	2.21	1.42	1.84	1.89				1.58				1.89	2.37	1.38
46	C402	18EEC26-Electrical Drives	0.57	0.57	1.14	0.57		1.14	1.48		0.57			0.57	1.71	1.71	1.14
47	C403	18EEC27-Signals & Systems	2.08	1.6	1.12	1.6	2.08				2.08	1.76	2.4	2.4		2.4	1.6

#	Code	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
48	C404	18EEE20-High Voltage Engineering	1.86	1.465	1.465	1.2	1.33				0.665		2.01		0.935	1.165	1.2
49	C405	18MEO04-Entrepreneurship	2.63	2.63	2.63	2.63	2.28	1.58	1.4	1.58	2.63	2.63	2.28	2.1	2.63	2.63	2.63
50	C406	18EGO01-Technical Writing Skills						1.89	1.89	1.89	0.91	1.31		0.73			
51	C407	18EEC28-Power Systems-II Lab	2.035	1.975	1.785	1.25	1.485				0.62		0.62	0.62	1.735	1.595	1.25
52	C408	18EEC29-Electrical Drives Lab	2.215	2.07	1.625	1.475	1.625				0.74		0.74	0.74	2.215	2.215	1.475
53	C409	18EEC30-Project: Part-1	2.19	1.9	2.04	1.9	1.9								1.17		1.6
54	C410	18EEE23-Smart Grid	1.74	1.74	1.51	1.51			0.7		0.7			0.7	1.74	1.74	1.74
55	C411	18EGO02-Gender Sensitization	1.49	1.76	1.8	1.76	0.81							0.68	2.03	1.62	1.89
56	C412	18ITO02-Python Programming	1.71	1.14	1.02	1.14	1.02				0.91		0.57	1.14		1.71	1.14
57	C413	18EEC31-Technical Seminar	2.035	1.975	1.785	1.25	1.485				0.62		0.62	0.62	1.735	1.595	1.25
58	C414	18EEC32-Project: Part-2	2.04	2.04	2.04	1.7	1.87	1.7	1.7	1.87	1.53	1.7	2.04	1.53	2.04	2.38	1.70
		Average of All Pos	**1.93**	**1.68**	**1.52**	**1.47**	**1.37**	**1.25**	**1.17**	**1.14**	**1.19**	**1.19**	**1.12**	**1.09**	**1.51**	**1.72**	**1.51**

PO PSO Indirect Attainment (2019-23)															
PO & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Alumni	2.41	1.85	2.25	2.14	2.04	2.16	1.85	2.29	2.74	2.34	2.55	2.75	2.45	2.15	2.45
Program Exit	2.02	2.45	2.4	2.29	2.15	2.31	2.44	2.33	2.04	2.014	2.14	2.27	2.31	2.42	2.35
Parent	2.12	2.14	2.34	2.45	2.22	2.42	1.45	2.45	2.85	2.4	2.75	2.85	2.27	2.8	2.8
Employer	2.7	2.55	2.48	2.18	2.51	2.55	1.98	2.57	2.81	2.63	2.67	2.6	2.28	2.58	2.45
Average	**2.31**	**2.25**	**2.37**	**2.27**	**2.23**	**2.36**	**1.93**	**2.41**	**2.61**	**2.35**	**2.53**	**2.62**	**2.33**	**2.49**	**2.51**

Over all Attainment															
PO Direct Attainment	1.93	1.68	1.52	1.47	1.37	1.25	1.17	1.14	1.19	1.19	1.12	1.09	1.51	1.72	1.51
PO Indirect Attainment	2.31	2.25	2.37	2.27	2.23	2.36	1.93	2.41	2.61	2.35	2.53	2.62	2.33	2.49	2.51
Overall Attainment	2.01	1.79	1.69	1.63	1.54	1.47	1.32	1.40	1.48	1.42	1.40	1.40	1.68	1.87	1.71

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PO & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Target	1.92	1.7	1.65	1.55	1.5	1.3	1.2	1.2	1.32	1.32	1.32	1.32	1.4	1.5	1.5
Overall Attainment	2.01	1.79	1.69	1.63	1.54	1.47	1.32	1.40	1.48	1.42	1.40	1.40	1.68	1.87	1.71

Target and Overall Attainment 2019-2023 Batch
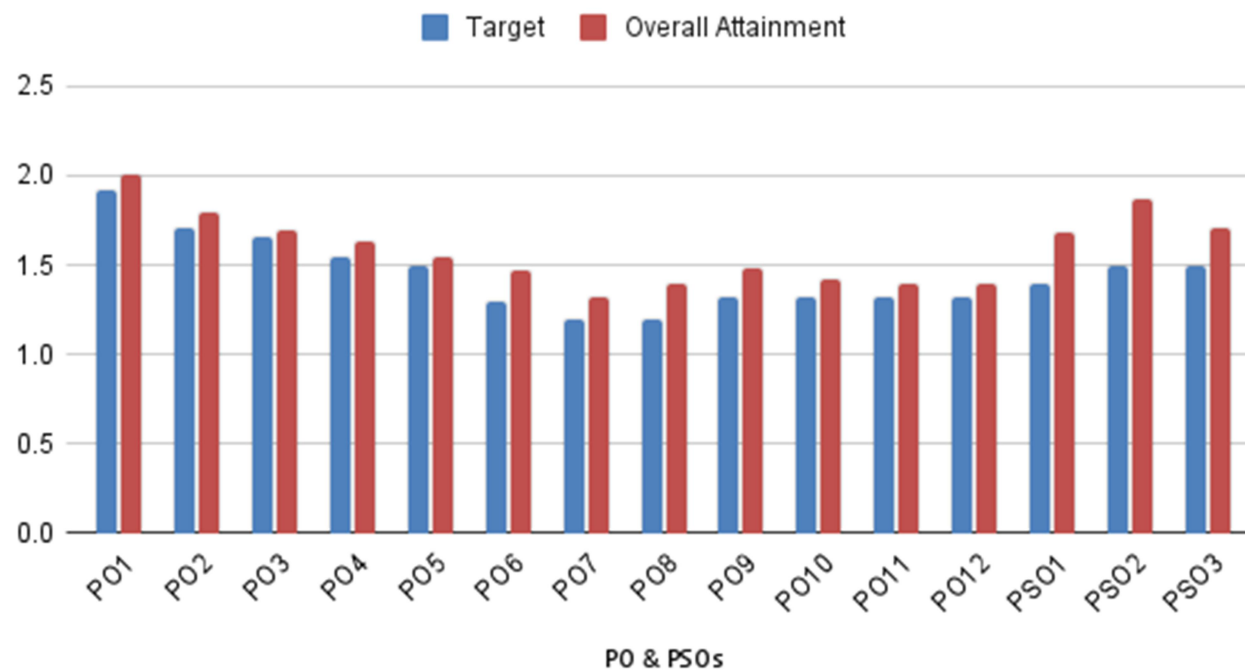
Action Taken:

The areas of weaknesses in the program are known based on the analysis of evaluation of COs, POs & PSOs attainment levels. Measures identified and implemented to improve POs& PSOs attainment levels for the next assessment year including curriculum intervention, pedagogical initiatives, support system improvements, etc. are given in the table. The set target for each PO is 75% of the maximum articulation value of corresponding PO of all the courses.

POs	Target level	Attainment level	Observations
PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO1	**2.01**	**1.92**	**Observation 1 :** The set target is achieved
After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned. Action 1:. Increased use of ICT tools for teaching-learning and assessment Action 2:. To make video lectures available through Learning Management System (LMS) developed by institute Action 3:. It is proposed to give assignments which address higher Blooms Taxonomy levels Action 4:. To revise the syllabus in the subsequent curriculum revision, so that program specific applications / Contents will be included in the Mathematics and Basic Sciences			
PO2 : Problem analysis: Identify formulae, research literature and solve complex engineering problems reaching substantiated conclusions using first principles of mathematics and engineering sciences.			
PO2	**1.7**	**1.79**	**Observation 1** 97% of the set target is achieved **Observation 2** Courses contributing to low score are 18EE C03, 18EE C04, 18EE C05, 18EE C06, 18EE C07, 18EE C08, 18EE C10, 18EEC14, 18EEC16, 18EEE01, 18EEE03, 18EEC17, 18EEC21, Above courses are of analytical type
After discussing in the CEG and PAQIC /PAC meetings, it is decided to continue with the same target as there is a scope for further improvement. To reach this target value the following actions are planned. Action 1:. To amend the syllabus in the subsequent curriculum revision, so that program specific applications / Contents will be included in the Mathematics and Basic Sciences Action 2:. It is proposed to give assignments which address higher Blooms Taxonomy levels Action 3:. In the subsequent curriculum revision, a freshman course (engineering exploration) is introduced so that in the first year itself students can identify an engineering problem and acquire knowledge that can be applied to the identified problem Action 4:. Proposed to introduce course end project along with assignments as a part of Continuous internal evaluation (CIE) in core courses, which are analytical in nature Action 5:. Provision for industry internship as a part of the curriculum for enhanced learning and better exposure to latest technological trends Action 6:. Increased number of lab courses which lay down a foundation to select and carryout project related to complex engineering problems Action 7:. To introduce Open ended experiments in the laboratory courses			

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PO3 Design/development of solutions:

Design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

PO3	1.65	1.69	Observation :The set target is achieved

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned

Action 1:. To increase the use of ICT tools for teaching-learning so that visualization of concepts related to complex engineering problem can be enhanced and students are motivated to take up mini and major projects to provide the solution to complex engineering problems.

Action 2:. To encourage students to take part in project exhibition hackathon, MSME projects and similar activities

Action 3:. To give assignments which address higher Blooms Taxonomy levels

Action 4:. To introduce course end project along with assignments as a part of Continuous internal evaluation (CIE) in core courses, which increases the student ability to solve complex engineering problem

Action 5:. To increase the number of lab courses and to design the same, such that solutions of the problem can be viewed also through simulation

Action 6:. To make provision for industry internship as a part of the curriculum for enhanced learning and better exposure to latest technological trends

PO4 : Conduct investigations of complex problems :

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO4	1.55	1.63	Observation : The set target is achieved

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned

Action 1:. To introduce high-end experiments in the lab courses such that student can develop an ability to solve open – ended problems

Action 2:. To make lab experiment's demonstration videos available through Learning Management System (LMS), so that students can understand the concept better and demonstrate well in the subsequent lab classes

Action 3:. Proposed to introduce course end project along with assignments as a part of Continuous internal evaluation (CIE) in core engineering lab courses

Action 4:. To enter into more MoUs with industries to establish industry-based labs and activities which facilitate experiential learning to students.

PO5: Modern tool usage :

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. (High correlation with the CAD, MATLAB, LABview etc.

PO5	1.5	1.55	Observation : The set target is achieved

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned.

Action 1: To increase the use of simulation tool in lab courses (where ever possible) to demonstrate the concept before going to the work bench

Action 2: To include open ended and structured enquiry type of experiments

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Action 3: To replace conventional method of teaching Engineering graphics with Computer aided drafting tool

Action 4: To encourage the usage of programme specific simulation tools in the mini and major project

PO6 :The engineer and society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO6	1.3	1.47	Observation : The set target is achieved

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned.

Action 1:To introduce more number of professional electives to address the regulations, codes and standards relevant to the electrical and electronics engineering discipline

Action 2:To encourage the students to actively participate in activities organized by various clubs of the institute like

- Energy conservation week and Swachhta Pakhwada 2020 - Energy savers' club
- Health camps- NSS
- Rural development - Engineers without borders
- Webinar -IEEE PES
- Webinar for Students on "Popular cultural practices of Telangana - Harayana for healthy and enriching life and life style"- Ek Bharath Sreshtha Bharath (EBSB)

Action 3: To introduce rural internship in the curriculum

Action 4: To introduce courses related to Community Engagement

PO7: Environment and sustainability

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO7	1.2	1.32	Observation : The set target is achieved

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned.

Action 1: To introduce the mandatory courses which address the management techniques for sustainable development

Action 2: To encourage the students to participate in social activity related to environment like

- "Tree plantation in the campus and nearby villages" as part of the activities of NSS under the new initiative "Haritha Haram" by State government.
- Awareness camp to nearby villages to promote energy conservation and alternative energy usage and to introduce energy efficient appliances like DC fans, LED bulbs, pumps etc.
- To encourage the students to actively participate in product exhibitions related to environment and sustainable development
- To encourage the students to take up mini and major projects through which relationship between technical, socio-economic and environmental dimensions of sustainability can be better understood.

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PO8: Ethics			
Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
PO8	**1.2**	**1.4**	**Observation:** The set target is achieved

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned.

Action 1: To introduce a new course on ethics titled "UHV-2, Understanding of Harmony" suggested by UGC

Action 2: It is proposed to give due weightage in the rubrics prepared to evaluate to ethical behavior and practices in the lab and project courses

Action 3: To train more number of faculty (20:1 student faculty ratio) on UHV through AICTE FDP so that faculty can handle the universal human values -1 during the student induction programme

PO9 : **Individual and team work** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO9	**1.32**	**1.48**	**Observation 1:** The set target is achieved. **Observation 2:** There is a need for increase in target and plan of action towards the same

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned.

This program outcome regarding individual and team work, comes under professional skills. Though the employers consider these professional skills and higher abilities as important and few students may perform weak.

After discussing in the CEG and PAQIC /PAC meetings, the committee opined that professional skills / outcome may not result simply from participation in a particular class or set of classes. Rather, these outcomes are more often acquired or influenced through sources both in and outside the classroom. It is decided to increase the target value by 5% and the following actions are planned to reach the new target value.

Action 1: To introduce more topics related to these skills in the soft skills course offered.

Action 2: To introduce activity-based courses like community engagement, engineering exploration in the first-year level itself, so that the spirit of individual and team work can be inculcated better.

Action 3: To encourage students to work as teams for activities conducted by various clubs of CBIT during Sudhee & Sruthi, which is a "Techno-Sport-Cultural" fest.

Action 4: To encourage the students to actively participate in activities organized by various clubs of the institute like

- Energy conservation week and Swachhta Pakhwada 2020 - Energy savers' club
- Health camps- NSS
- Rural development - Engineers Without Borders (EWB)
- Webinars, Industry tours and other professional activities-IEEE PES

Action 5: It is proposed to give due weightage in the rubrics prepared to evaluate CIE of laboratory courses, mini projects and major projects

Action 6: To encourage students to take part in project exhibition hackathon, MSME projects and similar activities

Action 7: To motivate students to work with multidisciplinary aspects in industry projects carried out as a part of institute activity

PO10 : Communication: Communicate effectively on complex engineering activities with the engineering

community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO10	1.32	1.42	Observation : The set target is achieved

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned.

Action 1: To introduce more topics related to these skills in the soft skills course offered.

Action 2: To revise the rubrics used to evaluate the CIE of mini projects, seminars and major projects so that more focus is given to performance indicator related to ability of comprehending (literature review), written communication (report writing), oral communication (presentation skills) and summarization (conclusion)

PO11: Project management and finance

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary

PO11	1.32	1.40	Observation: The set target is achieved

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned.

Action 1: To introduce more subjects to address management principles

Action 2: To introduce freshmen course so that student will be able to describe various economic and financial costs/benefits of an engineering activity and analyze and select the most appropriate proposal based on economic and financial considerations

Action 3: To encourage the students to present their IDEAS at MSME Incubation centre of CBIT

Action 4: To encourage more students to work on the hardware/product-based projects such that student get an ability to prepare budget proposal and submit the same to the institute and other agencies for funding

PO12:**Life-long learning:**

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PO12	1.32	1.40	Observation: The set target is achieved

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned.

Action 1: To introduce the credit transfer to the courses pursued via MOOCs (e.g. Swayam NPTEL, Coursera, MSME etc.)

Action 2: To introduce internships during every academic year break to enable students to pursue independent projects in an industrial setting with mentorship and prepare them for lifelong learning.

Action 3: To facilitate the honors and additional minor engineering degrees for the students who can acquire more 20 credits through MOOCs courses

Action4 : To introduce the e-portfolio to promote students participation in Co- curricular and extra-curricular activities which nurture the key interest towards life long learning

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Action 5: To invite more industry experts to take part in curriculum revision, delivery of lectures, project guidance and assessments and in establishment of laboratories.

Action 6: To encourage students to carry out projects in emerging areas and their applications to electrical & electronics engineering

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PSO1 Students will be able to succeed in executing software applications related to Electrical and Electronics

PSO1	1.4	1.68	**Observation:** The set target is achieved

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned.

Action 1: To increase the number of lab courses and to design the same, such that solutions of the problem can be viewed also through simulation

Action 2: To encourage the usage of programme specific simulation tools in the mini and major project

Action 3: To revise the syllabus of laboratory courses (where ever possible) to include the programming / software component so as to improve the coding skills of the students

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PSO2: Students will be able to pursue higher studies

PSO2	1.5	1.87	**Observation:** The set target is achieved

After discussing in the CEG and PAQIC /PAC meetings, it is decided to increase the target value by 2%. To reach the new target value the following actions are planned.

Action 1: To arrange for more interactions to the pre-final students with successful alumni of the department to create awareness about the prospects after pursuing higher studies

Action 2: To identify tracks in professional electives, so that student can be motivated to pursue higher studies in continuation to any of the tracks of their interest

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PSO3: Students will be able to serve the industry by taking up and leading the project group

PSO3	1.5	1.71	**Observation:** The set target is achieved

After discussion in the CEG and PAQIC /PAC meetings, it was decided to increase the target value by 2%. To reach the new target value the following actions are planned.

Action 1: To introduce more subjects to address management principles

Action 2: To encourage students to work as teams for technical activities conducted by CBIT during Sudhee – Institute level technical symposium.

Action 3: To encourage more students to work on the hardware/product-based projects such that student get an ability to prepare budget proposal and submit the same to the institute and other agencies for funding

Action 4: To motivate students to work with multidisciplinary aspects in industry projects carried out as a part of institute activity

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