



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

ME-PSPE						
2021-23 Batch			PO Direct Attainment			
S. No	Course Type	Subject & Code	PO1	PO2	PO3	PO4
1	Core	Real Time Applications for Power Systems- 20EE C101	1.64	1.64	2.05	1.64
2	Core	Power Electronic Converters- 20EEEC102	2.14	2.49	2.14	2.67
3	PSE-I	Power Quality - 20EE E110	1.51	1.78	1.78	1.92
4	PSE-II	Artificial Intelligence Techniques for Power Systems - 20EEE108	2.37	2.2	2.37	2.2
5	SC	Research Methodology and IPR - 20MEC103	2.63	2.28	2.11	2.28
6	AC-I	English for Research Paper Writing - 20EGA 101	1.96	1.96	1.8	1.8
7	Core	Power Systems Lab - 20EEEC103	1.56	1.68	1.43	1.43
8	Core	Power Electronics Simulation Lab - 20EEEC104	1.49	1.49	1.86	1.24
9	Core	Power System Dynamics- 20EEEC105	2	2	2.5	2
10	Core	Advanced Power Electronic Circuits - 20EEEC106	1.96	1.96	2.45	1.96
11	PSE-III	Renewable Energy System- 20EEE107	1.54	1.54	1.92	1.54
12	PSE-IV	Energy Auditing & Management-20EEE113	1.84	2.34	2.5	2.34
13	AC-II	Disaster Mitigation and Management - 20CEA101	1.75	1.62	1.62	1.89
14	Core	Power Electronics Lab - 20EEEC107	2.59	2.07	2.07	2.07
15	Core	Power Systems Simulation Lab - 20EEEC108	1.97	1.97	2.46	2.46
16	Core	Mini Project with Seminar - 20EEEC109	2.37	2.76	2.37	2.37
17	PSE-V	Electric and Hybrid Vehicles - 20EEE116	1.39	1.65	1.52	1.52
18	OE	Introduction to Optimization Techniques - 20MEO102	2.36	2.55	2.55	2.55
19	Core	Industrial Project/Dissertation Phase 1- 20EEEC110	1.97	2.13	2.13	1.97
20	Core	Industrial Project/Dissertation Phase 2- 20EEEC111	2.96	2.96	2.96	2.96
		Direct Attainment (DA) Average	2.00	2.05	2.13	2.04

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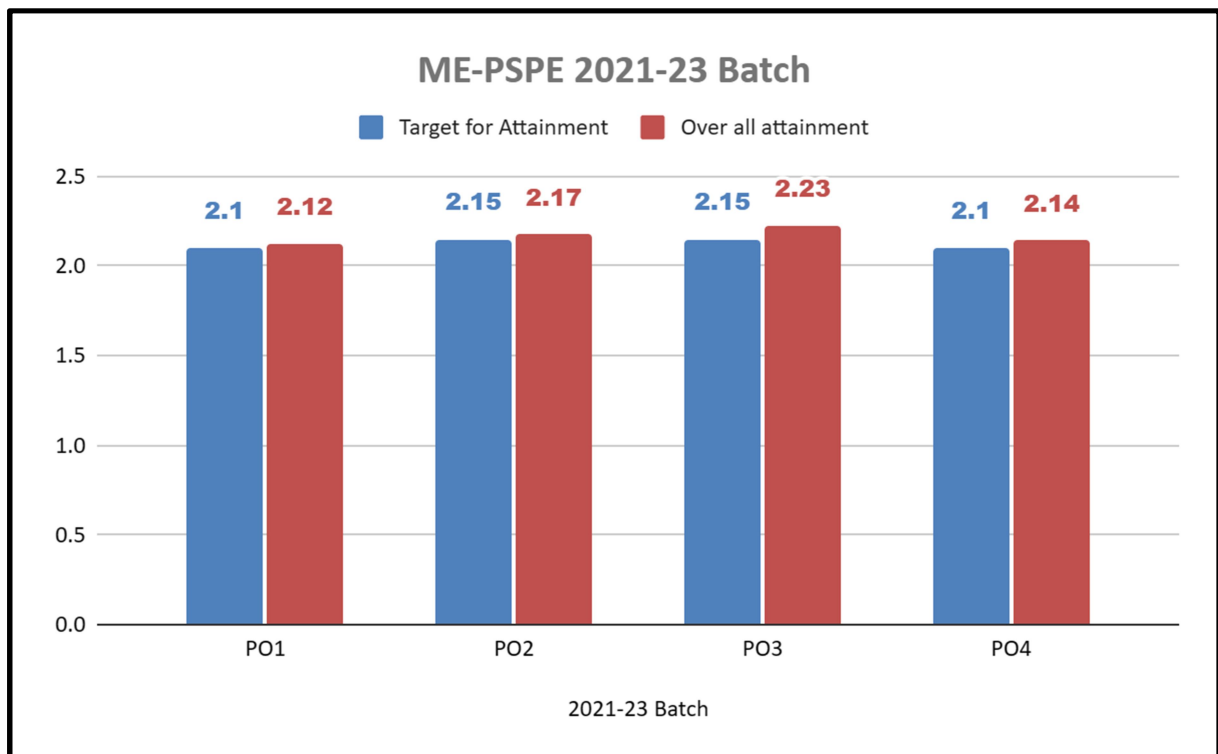
Indirect Attainment (IA)


2021-23 Batch	PO1	PO2	PO3	PO4
Program Exit Survey	2.5	2.83	2.17	2.67
Alumni Survey	2.63	2.52	2.62	2.55
Parent Feedback	2.67	2.5	2.67	2.5
Employers Feedback	2.67	2.75	3	2.5
Indirect Attainment (IA) Average	2.62	2.65	2.61	2.55

Overall attainment

Direct Attainment (DA)	2.00	2.05	2.13	2.04
Indirect Attainment (IA)	2.62	2.65	2.61	2.55
Overall attainment (0.8*DA+0.2*IA)	2.12	2.17	2.23	2.14

2021-23 Batch	PO1	PO2	PO3	PO4
Target for Attainment	2.1	2.15	2.15	2.1
Overall attainment	2.12	2.17	2.23	2.14




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Action Taken

POs	Target value (%)	Attainment value	Observations
PO1: An ability to independently carry out research /investigation and development work to solve practical problems			
PO1	2.1(70%)	2.12	Observation 1: The set target is achieved
<p>After discussing this in the CEG, PAQIC and DAB meetings, it is decided to increase the target value by 5%. To reach the new target value the following actions are planned.</p> <p>Action 1:. Encouraging more student participation in research projects can lead to benefits such as patent publications, copyrights and collaborative publications with faculty.</p> <p>Action 2:. Encouraged more students to participate in international conferences and Research Days events</p> <p>Action 3:. Encouraged students involved in the department funding research projects and consultancy projects.</p>			
PO2: An ability to write and present a substantial technical report/document			
PO2	2.15 (71.67%)	2.17	<p>Observation 1: The set target is achieved.</p> <p>Observation 2: Courses contributing to low scores are</p> <ul style="list-style-type: none"> ● Power Electronics Simulation Lab - 20EEEC104, ● Electric and Hybrid Vehicles - 20EEE116
<p>After discussing this in the CEG PAQIC and DAB meetings, it is decided to increase the target value by 5%. To reach this target value the following actions are planned.</p> <p>Action 1:. The syllabus for the power quality course will be amended in the subsequent curriculum revision. A few analytical topics have been introduced in the revised syllabus.</p> <p>Action 2:. The students are encouraged to prepare detailed technical reports about their mini-projects. A department review committee has been asked to conduct reviews to monitor the progress of the technical report preparations.</p> <p>Action 3:. Students are instructed to submit technical reports as part of their Electric and Hybrid Vehicles and power system dynamics.</p> <p>Action 4:. Department is decided to conduct short term course related to Electric and Hybrid Vehicles</p>			
PO3: Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program			
PO3	2.15 (71.67%)	2.23	<p>Observation 1: The set target is achieved.</p> <p>Observation 2: Courses contributing to low scores are</p> <ul style="list-style-type: none"> ● Power Quality- 20EE E110 ● Power Systems Lab - 20EEEC103 ● Renewable Energy System- 20EEE107

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After discussing this in the CEG PAQIC and DAB meetings, it is decided to increase the target value by 5%. To reach this target value the following actions are planned.

Action 1:. Encourage students to participate in Project exhibitions such as Research Day events and conferences related to power quality.

Action 2:. To give assignments which address higher Blooms Taxonomy levels

Action 3:. In core courses, introduce course end projects/seminars along with assignments as part of CIE, which will increase students' ability to solve complex engineering problems

Action 4:. To extend lab courses beyond hours to prepare power point presentations.

Action 5:. To encourage industry internship as a part of the beyond curriculum for enhanced learning and better exposure to the latest technological trends.

PO4: The students will be able to analyze, design and develop new control strategies in the areas of Power Systems and Power Electronics suitable for Industry requirements

PO4

2.10
(70%)

2.14

Observation 1: The set target is achieved.

Observation 2: Courses contributing to low scores are

- Real Time Applications for Power Systems-20EE C101
- Power Systems Lab - 20EEEC103
- Power Electronics Simulation Lab - 20EEEC104
- Electric and Hybrid Vehicles - 20EEEE116

After discussing this in the CEG PAQIC and DAB meetings, it has been decided to increase the target value by 5%. To reach this target value the following actions are planned.

Action 1:. Introduce high-end experiments in lab courses so that students can learn to solve open-ended problems

Action 2:. Learning Management Systems (LMS) can provide lab experiment demonstration videos to help students better understand the concept and demonstrate well in subsequent lab classes

Action 3:. A proposal was made to include course end projects along with assignments as part of Continuous internal evaluation (CIE) in core engineering lab courses.

Action 4:. To give assignments which address higher Bloom's Taxonomy levels.

Action 5:. In core courses, introduce course-end projects/seminars along with assignments as part of Continuous Internal Evaluation (CIE), which will increase students' ability to solve complex engineering problems.

Action 6:. To encourage industry internships as a part of the Beyond curriculum for enhanced learning and better exposure to the latest technological trends


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