Electrical and Electronics Engineering
ME-PSPE

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

Sem	Course Code	Course Type	Subject Code	Subject	PO1	PO2	PO3	PO4
I	C101	Core	20EE C101	Real Time Applications for Power Systems	1.23	0.62	1.85	1.23
I	C102	Core	20EEC102	Power Electronic Converters	1.78	1.78	2.14	2.67
I	C103	PSE-I	20EEE116	Electric and Hybrid Vehicles	1.31	0.84	1.07	1.67
I	C104	PSE-II	20EEE114	Smart Grids	1.60	1.81	2.10	2.40
I	C105	SC	20MEC103	Research Methodology and IPR	2.93	2.16	1.96	1.76
I	C106	AC-I	20EGA 101	English for Research Paper Writing	2.16	2.16	1.98	1.98
I	C107	Core	20EEC103	Power Systems Lab	1.78	0.91	1.04	1.43
I	C108	Core	20EEC104	Power Electronics Simulation Lab	1.62	0.62	1.86	1.24
II	C109	Core	20EEC105	Power System Dynamics	1.70	1.59	1.36	1.25
II	C110	Core	20EEC106	Advanced Power Electronic Circuits	1.70	1.72	2.12	2.43
II	C111	PSE-I	20EEC107	Renewable Energy System	2.60	1.77	1.92	1.92
II	C112	PSE-II	20EEE106	HVDC	1.78	1.66	1.43	1.31
II	C113	AC-II	20ECA101	Value Education	2.08	2.20	2.10	2.10
II	C114	Core	20EEC107	Power Electronics Lab	2.59	1.73	1.73	1.20
II	C115	Core	20EEC108	Power Systems Simulation Lab	2.46	1.31	0.98	0.82
II	C116	Core	20EEC109	Mini Project with Seminar	1.58	1.97	2.57	2.76
III	C201	PSE-I	20EEE113	Energy Auditing & Management	1.57	1.08	1.51	1.06
III	C202	OE	20CSO101	Business Analytics	2.94	2.16	1.96	1.77
III	C203	Core	20EEC110	Industrial Project/Dissertation Phase 1	2.20	2.20	2.20	2.20
IV	C204	Core	20EEC111	Industrial Project/Dissertation Phase 2	2.40	2.50	2.50	2.40
				Average	**2.00**	**1.64**	**1.82**	**1.78**

HEAD
Dept. of EEE, CBIT (A)
Gandipet, Hyderabad - 75

Dr. M. Balasubbareddy
HOD/EEE, CBIT

PO Indirect Attainment (2022-24)

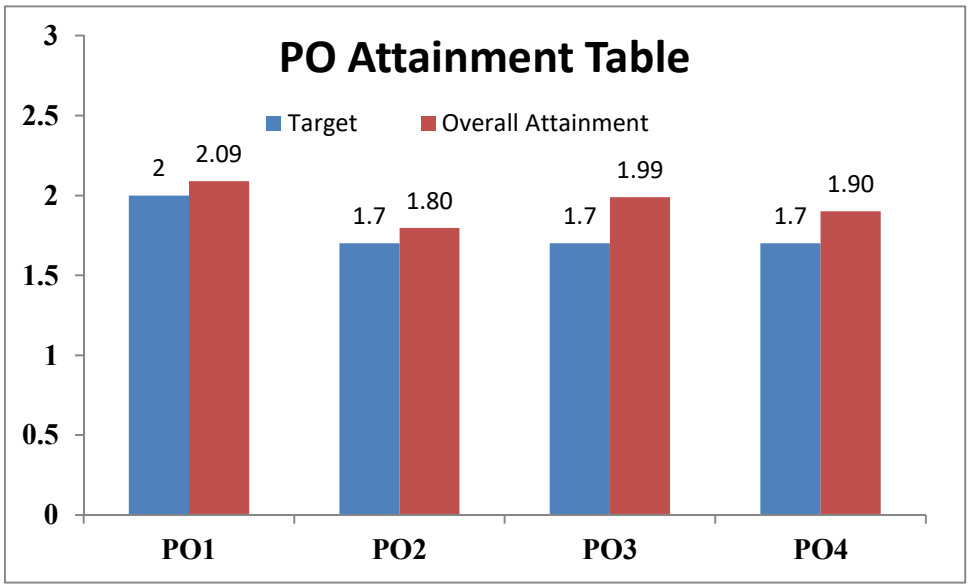
PO	PO1	PO2	PO3	PO4
Alumni	2.12	2.24	2.65	2.28
Program Exit	2.76	2.68	2.71	2.45
Parent	2.65	2.23	2.86	2.57
Employer	2.25	2.56	2.48	2.25
Average	**2.45**	**2.43**	**2.68**	**2.39**

Over all Attainment

PO	PO1	PO2	PO3	PO4
PO Direct Attainment	2.00	1.64	1.82	1.78
PO Indirect Attainment	2.45	2.43	2.68	2.39
Overall Attainment	**2.09**	**1.80**	**1.99**	**1.90**

PO Target and Attainment Values:

PO	PO1	PO2	PO3	PO4
Target	2	1.7	1.7	1.7
Overall Attainment	2.09	1.80	1.99	1.90



Dr. M. Balasubbareddy
HOD/EEE, CBIT

HEAD
Dept. of EEE, CBIT (A)
Gandipet, Hyderabad - 75

Action Taken:

PO	Target Value	Attainment	Observation
PO1: An ability to independently carry out research/investigation and development work to solve practical problems.			
PO1	>60%	2022-24	• Compulsory Mini Project with Seminar, Research Methodology, and IPR has been included. • Moreover, the research component of the curriculum like English for Research Paper writing as an audit course has been introduced. • Students are given a chance to operate and learn instrumentation, sample preparation, and analysis during their research work. • The Special Electrical Machines lab has been modernized and equipped with advanced instruments. • In addition, application-orientated practical, hands-on training on formulation, research, and management based on power systems and power electronics training also helps.
Action: Trying to maintain the level and target for higher			
PO2: Ability to write and present a substantial technical report/document.			
PO2	>55%	2022-24	• The submission of the technical report including a PPT presentation in the form of a Seminar followed by a question-answer session by experts, and peers. • This is mainly associated with a mini project with the seminar. It is also mandatory to prepare rough and fair technical reports, as well as PowerPoint presentations, and submit them to the faculty for comments to emphasize this PO2.
Action: Trying to maintain the level and target for higher			
PO3: Student 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	>55%	2022-24	• For better teaching-learning methods, the classroom has been modernized. Showing and demonstrating concepts through AV systems are encouraged among faculties. • Research-related advanced equipment has been developed and incorporated into the lab syllabus. • Students are given a chance to operate and learn instrumentation, sample preparation, and analysis during their research work. • The details of the application-based software tools such as MATLAB, Psim, PSCAD, and Altair flux training also helped in solving practical problems related to Power Systems and Power Electronics.

Action: Trying to maintain the level and target for higher			
PO4: The Student 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	>55%	2022-24	• Attending workshops, symposiums, and international conferences are regular for students in the Power Systems and Power Electronic department, where students get exposure to scientific and panel discussions of experts invited from different universities and industry. Students get to know various problems associated with the subject and the best possible solutions. • The details of application-based industrial Training also helped in solving practical problems related to Power Systems and Power Electronics.
Action: Trying to maintain the level and target for higher			

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HOD/EEE, CBIT