



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

Department of Electrical and Electronics Engineering

Attainment of Program Outcomes (POs) of 2022 - 2024 batch (IARE – PG21)

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6
BPSC01	Modern Power System Analysis	2.30	2.30	2.30	2.30	2.10	2.80
BPSC02	Economic Operation of Power Systems	1.50	1.80	1.40			
BPSC03	HVDC Transmission and FACTS	2.60	2.60	2.60	2.50		2.70
BPSC08	Hybrid Electric Vehicles	2.40	2.60	2.20			2.20
BPSC11	Power System Computational Laboratory	3.00	3.00	3.00	3.00	3.00	3.00
BHSC11	Research Methodology and IPR	1.10	1.90	2.20			
BPSC12	Internet of Things Laboratory	3.00	3.00	3.00			
BPSC13	Digital Protection of Power System	1.60	1.60	2.70	1.10		1.10
BPSC14	Power System Dynamics and Stability	2.20	1.00	1.80	1.40	1.30	1.00
BPSC16	Industrial Load Modelling and Control	1.10	1.90	2.20	2.10		
BPSC20	Power Quality	1.80	1.80	2.00			
BPSC23	Artificial Intelligence in Power System Laboratory	3.00	3.00	3.00			1.10
BPSC24	Power Systems Laboratory	3.00	3.00	3.00	3.00	3.00	3.00
BPSC25	Mini Project with Seminar	3.00	3.00	3.00	3.00	3.00	3.00
BPSC26	SCADA System and Applications	2.00	2.00	1.50	1.90		
BPSC30	Waste to Energy	1.80	2.20				1.70
BPSC31	Phase-I Dissertation	3.00	3.00	3.00	3.00	3.00	3.00
BPSC32	Phase-II Dissertation	3.00	3.00	3.00	3.00	3.00	3.00
Direct Attainment		2.4	2.4	2.5	2.4	2.6	2.3

Overall Attainment

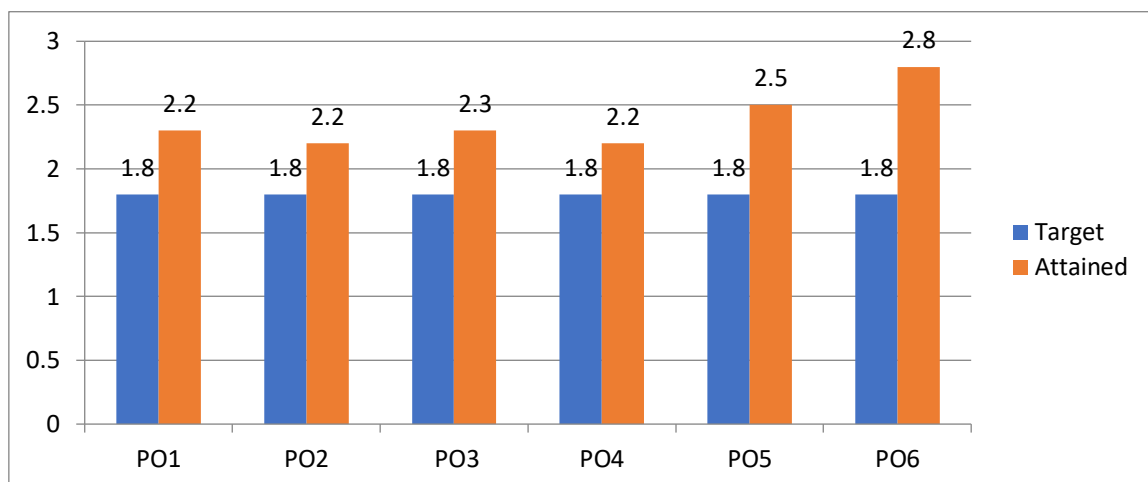
S. No	Assessment Component (Direct + Indirect)	Program Outcomes					
		PO1	PO2	PO3	PO4	PO5	PO6
1.	Direct Assessment (CIA + SEE+ Course End Survey) (a)	2.4	2.4	2.5	2.4	2.6	2.3
2.	Student Program exit surveys (b)	1.7	1.6	1.8	1.4	1.8	1.7
3.	Employer surveys (c)	1.7	1.6	1.8	1.4	1.8	1.7
4.	Alumni Survey (d)	2.0	1.7	1.3	2.2	2.4	1.9
Overall attainment = $a \times 0.8 + b \times 0.1 + c \times 0.05 + d \times 0.05$		2.2	2.2	2.3	2.2	2.5	2.2

POs Attainment Levels and Actions for improvement:

The observations made and the action taken for the achieved POs attainment level for 2022-2024 batch of students is expressed in the Table.

POs	Target Level	Attainment Level	Observations
PO1: An ability to independently carry out research/investigation and development work to solve practical problems.			
PO1	1.8	2.2	Target is achieved. The following actions were taken to enhance the target level.
The following measures have been initiated to enhance the PO1 attainment level: <ul style="list-style-type: none"> Project based learning in elective courses are introduced by select faculty. Students are encouraged to do mini projects as a part of course assessments. 			
PO2: An ability to write and present a substantial technical report/document			
PO2	1.8	2.2	Target is achieved. The following actions were taken to enhance the target level.
The following measures have been initiated to enhance the PO2 attainment level: <ul style="list-style-type: none"> Students are encouraged to communicate their research papers to the conferences and journals of repute. 			
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 of higher than the requirements in the appropriate bachelor program.			
PO3	1.8	2.3	Target is achieved. The following actions were taken to enhance the target level.
The following measures have been initiated to enhance the PO3 attainment level: <ul style="list-style-type: none"> Recent open-source simulation tools are introduced. 			
PO4: Identify, formulate and solve complex problems on modern-day issues of Power Systems using advanced technologies with a global perspective and envisage advanced research in thrust areas			
PO4	1.8	2.2	Target is achieved. The following actions were taken to enhance the target level.
The following measures have been initiated to enhance the PO4 attainment level: <ul style="list-style-type: none"> Students are given the advances in Power Systems like Smart grid Technologies, Hybrid Eclectic Vehicles, Industrial load modelling and control etc. 			
PO5: Model and apply appropriate techniques and modern tools on contemporary issues in multidisciplinary environment.			
PO5	1.8	2.5	Target is achieved. The following actions were taken to enhance the target level.
The following measures have been initiated to enhance the PO5 attainment level: <ul style="list-style-type: none"> Multidisciplinary have been introduced like AI Techniques, Swarm Intelligence Techniques in power systems, Data Science and Machine Learning for modern power system etc. 			
PO6: Engage in life-long learning for education in doctoral level studies and professional development			
PO6	1.8	2.2	Target is achieved. The following actions were taken to enhance the target level.
The following measures have been initiated to enhance the PO6 attainment level: <ul style="list-style-type: none"> Students were motivated to take up MOOC courses. 			

Attainment of Program Outcomes (POs) for 2022-2024 Batch




HOD, EEE
Head of the Department
Electrical and Electronics Engineering
INSTITUTE OF AERONAUTICAL ENGINEERING
Dundigal, Hyderabad-500 043.