

(Autonomous)

Dundigal, Hyderabad-500043

Department of Electrical and Electronics Engineering Electrical Power Systems

Attainment of Program Outcomes (POs) and Program Specific Outcomes (PSOs) of 2019- 2021 batch (IARE- R18)

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6
BCSB30	Waste To Energy	0	0	0	2	2	3
BCSB31	Research Methodology & IPR	2.7	2	1	1	1	2
BCSB32	English For Research Paper Writing	0	3	0	0	0	3
BCSB33	Disaster Management	0	0	0	2	2	3
BPSB01	Modern Power System Analysis	1.4	2	3	3	0	2
BPSB02	Economic Operation of Power Systems	1.2	2	1.8	1.2	0	2
BPSB03	HVDC Transmission	1	2	1	2.2	0	2
BPSB07	Reactive Power Compensation and Management	1.5	0	2.3	2.5	1	2
BPSB09	Power System Computational laboratory	3	0	3	3	2	3
BPSB10	Internet of things laboratory	2.2	1	2	1.2	3	3
BPSB11	Digital protection of power system	1	2	1.8	1.5	0	2
BPSB12	Power system dynamics	2	2	1.3	0	1.5	2
BPSB15	Industrial load modelling and control	2.3	1.5	1.8	2	0	0
BPSB16	Ai techniques in power systems	1.7	0	3	3	1.7	1.7
BPSB19	Artificial intelligence laboratory	2	1	2	1.8	3	2.3
BPSB20	POWER SYSTEMS LABORATORY	2	2	2	3	3	3
BPSB21	MINI PROJECT WITH SEMINAR	3	3	3	3	3	3
BPSB23	FLEXIBLE AC TRANSMISSION SYSTEMS	2.5	0	3	3	0	1.5
BPSB40	PHASE - I DISSERTATION	3	2	3	3	3	3
BPSB41	PHASE - II DISSERTATION	2.3	3	2.2	2.7	3	3
	Direct Attainment	2.05	2.04	2.19	2.28	2.25	2.45



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Overall Attainment

	S No. Assessment Component (Direct + Indirect)		Program Outcomes					
S No.			PO2	PO3	PO4	PO5	PO6	
1.	Direct Assessment (CIA + SEE+ CourseEndSurvey)(a)		2.5	2.5	2.5	2.7	2.4	
2.	Student Program exit surveys(b)		2.7	2.4	2.5	2.4	2.1	
3.	Employer surveys(c)		2.6	2.3	2.4	2.5	2.4	
4.	Alumni Survey(d)	2.2	2.3	2.6	2.5	2.6	2.5	
	Overall attainment = $a*0.8 + b*0.1 + c*0.05 + d*0.05$			2.5	2.5	2.7	2.4	

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Action taken to improve the attainment of Pos and PSOs.

Action taken to improve the attainment of Pos and PSOs:						
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	2.5	Target is achieved. The following actions were taken to enhance the target level.			
Additional rese Mini pro The pro Continu	earch facilities, graduall rojects related to advand ogram has made it mand	iated to enhance the PO1 attainment levely making a significant contribution for ced topics in the area of Power Systems datory to publish a paper related to the drature and courses in lifelong learning on of the subject.	better attainment of PO1 s domain will enhance the attainment			
		a substantial technical report/document				
PO2	1.8	2.5	Targetisachieved.Thefollowingactionsweretakentoenhancethetargetlevel.			
 The following measures have been initiated to enhance the PO2 attainment level: The program decided to have a very strong focus on improving student publications, and also on quality publications. The focus on publications enabled students to improve their technical report writing skills significantly. The program has made it mandatory to publish a paper related to the project. Mini Project with seminar was introduced as separate course in the revised curriculum. This has enabled students to improve their technical report/document writing skills. 						
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	2.5	Targetisachieved. The following actions were taken to enhance the target level.			
The following measures have been initiated to enhance the PO3 attainment level: • Using modern tools in the laboratory, such as MATLAB, PSCAD, enhances the demonstration levels of the program. • Improving curriculum by introducing topics related to research. • The elective courses provide breadth of experience in the area of Power systems and its real time applications and courses. 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 thurst areas						
1 OT. Identify,		I	Target is achieved. The following actions were taken to enhance the target level.			



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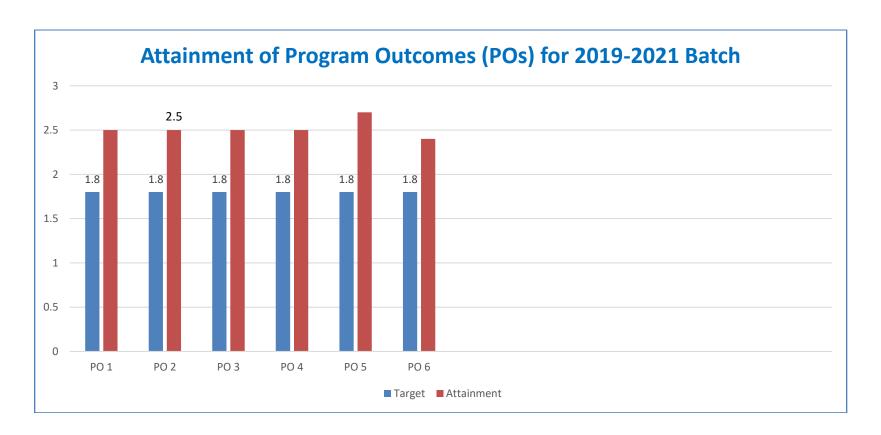
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EnricheNew la	ed the curriculum by incobs have been introduced					
PO5: ioModel and apply appropriate techniques and modern tools on contemporary issues in multidisciplinary environment.						
PO5	1.8	2.5	Target is achieved. The following actions were taken to enhance the target level.			
The following measures have been initiated to enhance the PO5 attainment level: • Some course coordinators introduced mini projects / seminars in their courses, for which students had to work independently. This contributed to the increase in PO5 attainment. • Mini Project with Seminar and Project work also helps to work cooperatively in a team and individually digital communication and digital signal processing courses.						
PO6: Engage in life-long learning for education in doctoral level studies and professional development						
PO6	1.8	2.7	2.7 Targetisachieved.Thefollowingactionsweretakentoenhancethetargetlevel.			
The fellowing r	no following massures have been initiated to enhance the PO6 attainment level:					

The following measures have been initiated to enhance the PO6 attainment level:

- Students were motivated to do the research in advanced areas in premier institution
 Students were motivated to take up NPTEL certification courses.



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HOD - EEE

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