## **INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous)

Dundigal, Hyderabad - 500 043

## Department of Electronics and Communication Engineering Attainment of Program Outcomes (POs) of 2019 - 2021 batch (IARE-R18)

Subject Code	Course Title	P01	P02	P03	P04	P05	P06
BESB01	Embedded System Design			2.00	2.00		2.00
BESB02	Micro Controllers and Programmable Digital Signal Processing	2.50		2.40	2.40		
BESB03	Wireless LAN and Pans	1.90	2.00	2.20	2.00		1.80
BESB06	Principles of Distributed Embedded Systems			2.40	2.40		
BESB09	Embedded Programming Laboratory	2.30		2.30	2.30	2.30	2.30
BESB10	Microcontrollers and Programmable Digital Signal Processors Laboratory	2.40		2.40	2.40		
BESB11	Embedded System Architecture			2.20	2.30		1.80
BESB12	Internet of Things	2.10	1.70	1.70			
BESB14	Embedded Wireless Sensor Networks	1.70	0.60	2.30	1.80	1.60	
BESB16	Microcontrollers for Embedded System Design	2.00		2.00	2.00		
BESB19	Embedded Systems Laboratory	1.70		1.70		1.70	
BESB20	Internet of Things Laboratory	2.70		2.70	2.70		
BESB21	Mini Project with Seminar	2.70	2.70	2.70	2.70	2.70	2.70
BESB22	Embedded Real Time Operating Systems	1.40	1.30	0.50	1.20	1.30	1.50
BCSB30	Waste to Energy	2.50	2.90	0.70		2.90	2.90
BCSB31	Research Methodology & IPR	1.20	1.60				1.10
BESB40	Phase - I Dissertation	3.00	3.00	3.00	3.00	3.00	3.00
	Direct Attainment Value			2.1	2.2	2.2	2.1

## **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)	2.2	2	2.1	2.2	2.2	2.1	
2.	Student Program exit surveys (b)	2.4	2.8	2.7	2.2	2.7	2.7	
3.	Employer surveys (c)	2.5	2.7	2.2	2.7	2.3	2.1	
4.	Alumni Survey (d)	2.2	2.3	2.6	2.5	2.6	2.5	
Overall attainment = $a*0.8 + b*0.1 + c*0.05 + d*0.05$			2.1	2.2	2.2	2.3	2.2	

POs	Target Level	Attainment Level	Observations			
PO1:	Independently carry out research	h / investigation and development work to sol	ve practical problems.			
PO1	1.8	2.2	Target is achieved. The following action were taken to enhance the target level.			
<ul><li>Ac</li><li>Mi</li><li>Th</li></ul>	dditional research facilities, grad ini projects related to advanced ne program has made it mandato	tiated to enhance the PO1 attainment level: ually making a significant contribution for be topics in the area of Embedded domain will early to publish a paper related to the domain of re and courses in lifelong learning	nhance the attainment			
PO2:	Write and present a substantial t	echnical report / document.				
PO2	1.8	1.97	Target is achieved. The following actions were taken to enhance the target level.			
the PO3:	ini Project with seminar was intreir technical report/document wi	ry over the area as per the specialization of t	culum. This has enabled students to improve he program. The mastery should be at a level o			
PO3	1.8	2.10	Target is achieved. The following actions were taken to enhance the target level.			
<ul><li>Im</li><li>Th</li><li>PO4:</li></ul>	approving curriculum by introduction elective courses provide bread Apply the skills and knowled	Ith of experience in the area of embedded syst	ems and its realtime applications. eer skilful at designing embedded systems for			
PO4	1.8	2.24	Target is achieved. The following action were taken to enhance the target level.			
Enr Nev Stu	riched the curriculum by including which will be a carry the dents are encouraged to carry the	tiated to enhance the PO4 attainment level: ng new courses as Program Electives. h the use of state-of-the-art modern tools like e mini projects in the multi domain areas	PSOC simulator, Keil and MATLAB.			
		altidisciplinary environments by working cooperatively, creatively and responsibly as a member of a team.  Target is achieved. The following actions				
PO5	1.8	2.21	were taken to enhance the target level.			
• Sor Thi	ne course coordinators introduce s contributed to the increase in I	tiated to enhance the PO5 attainment level: ed mini projects / seminars in their courses, fo PO5 attainment ect work also helps to work cooperatively in a				
PO6: Recognize the need to engage in lifelong learning through continuing education and research.						
PO6	1.8	2.12	Target is achieved. The following actions were taken to enhance the target level.			
• Stu		tiated to enhance the PO6 attainment level: research in advanced areas in premier institut of NPTEL certification courses.	ions			



