LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)
Affiliated to JNTUK, Kakinada & Approved by AICTE New Delhi,
Accredited by NAAC, An ISO 9001:2015 Certified Institution L.B.Reddy Nagar, Mylavaram - 521 230, Krishna District, Andhra Pradesh, INDIA

Department of Aerospace Engineering

Website: http://lbrce.ac.in

Email: hodaero@lbrce.ac.in

Phone:08659-222933 Ext:513/515

Attainment of Course Outcomes, Program Outcomes and Program Specific **Outcomes**

Faculty Name	:	Mr.I.Dakshina Murthy	Designation	:	Sr. Assistant Professor
Course Name	:	Instrumentation, Measurements and Experiments in Fluids (IMEF)	Academic Year	:	2020-21
Course Code	:	17AE26	Semester	:	VII
Program & AY	:	B.Tech, 2017	Section	:	

COURSE OUTCOMES:

After the completion of the course, the student should be able to,

17AE26:1	:	Employ wind tunnels for aerodynamic testing of bodies. (Apply-L3)
17AE26:2	:	Adopt and use a visualization technique to understand the flow field. (Underastand-L2)
17AE26:3	:	Employ a suitable instrument to measure the velocity, temperature, and pressure of fluid flow. (Apply-L3)
17AE26:4	:	Acquire experimental data and estimate the uncertainty in measured values during experimentation. (Apply-L3)

1. Attainment of Course Outcomes through Mid Examinations:

	Q1a 30 61.54 Q1b Q1c 74 62.5 Q1d 53 47.83 Q2a 86 78.38 Q2b 60 69.24 Q2c 9 50 Q2d Q3a 49 33.34 Q3b Q3c 51 72.73 Q3d 33 92.86 Q1a 63 77.78				Question-CO Articulation Matrix					
			%Attainment	CO1	CO2	CO3	CO4			
	Q1a	30	61.54	1	-					
	Q1b		×							
	Q1c	74	62.5	1			()			
	Q1d	53	47.83	0.75						
	Q2a	86	78.38		1		()			
<u> </u>	Q2b	60	69.24		1		9			
모	Q2c	9	50		0.75					
	Q2d									
	Q3a	49	33.34	1						
	Q3b									
	Q3c	51	72.73		1					
	Q3d	33	92.86		1					
_ ₹	Q1a	63	77.78			0.75				
D-II	Q1b	60	69.24			1				

		22	40	T		1	
	Q1c	23	40			1	Accounts
	Q1d	23	30			1	
	Q2a	19	12.5			1	
	Q2b	14	33.34			1	
	Q2c	74	81.25			0.5	
	Q2d	65	67.86			1	
	Q3a	81	65.72				1
	Q3b						
	Q3c						
	Q3d						
	MID	Attainment		48.32	70.15	43.99	65.72
11	A1	41	100				
	A2	41	100				
	A3	41	100				
	A4	41	100				
Assignment	A5	41	100				
				100	100	100	100
A	ssigni	nent Attainn	The second secon				
	Q1		72.1				
Quiz	Q2		51.17				
	Qui	z Attainmen		72.1	72.1	51.17	51.17

2. Attainment of Course Outcomes through Semester End Examinations (SEE):

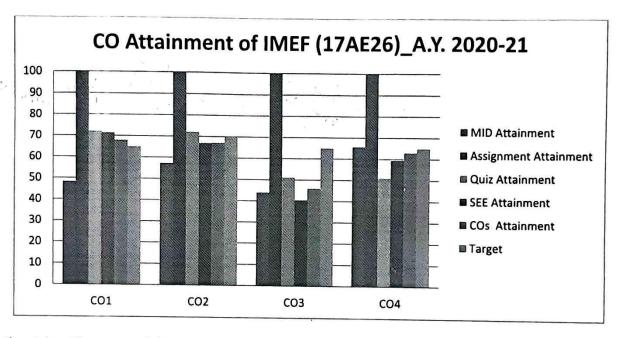
	SEE Attainmen	it	Question-CO Articulation Matrix					
	% Students Attempted	%Attainment	CO1	CO2	соз	CO4		
Q1a	33	72.73	1			5,500)		
Q1b	34	79.42	1					
Q2a	9	44.45	1					
Q2b	9	88.89	1					
Q3a	36	77.78		1				
Q3b	35	80		1				
Q4a	7	57.15		0.75				
Q4b								
Q5a	34	67.65			1			
Q5b	34	64.71			0.5			
Q6a	7	14.29			1			
Q6b	10	40			1			
Q7a	2				1			
Q7b	3	33.34			1			
Q8a	37	64.87			1			
Q8b	39	71.8			1			

	SEE Attainmen	t	71.4	66.89	40.54	59.53
Q10b	28	46.43				1
Q10a	28	75				1
Q9b						
Q9a	14	57.15				1

3. The final attainments of COs are determined according to the given weightage.

Weightage for COs: 60% of Semester End Examinations + 25% of Mid Examinations + 10% of Online Quiz Examination + 5% of Assignments

COs	Attainme	nt		
Assessment Tool	CO1	CO2	CO3	CO4
MID Attainment	48.32	70.15	43.99	65.72
Assignment Attainment	100	100	100	100
Quiz Attainment	72.1	72.1	51.17	51.17
SEE Attainment	71.38	66.89	40.54	59.53
COs Attainment	68	70	46	63
Target	65	70	65	65



Action taken Report on COs Attainment:

- > It is observed that CO3 is well short of the target and CO4 is just short of the target.
- A couple of questions Bloom's Taxonomy levels in the CIE and SEE are lower than the CO level which has a strong influence on the attainment level according to the CO computation procedure.
- > The percentage of the students those are able to score the threshold level of CO is poor for the CO3 and hence the attainment level is much lower than the target.

- > The course instructor would plan to map the Bloom's Taxonomy levels of the questions with respect to the CO level in the CIE.
- More concentration will be made while teaching the course content mapping with CO3, hence there is a good chance to improve the percentage of students crossing the threshold value.
- > The suggestions given by the Module coordinator, the head of the department and PAC shall be followed to improve the attainments of course outcomes.

4. Calculation of PO-PSO attainment:

N	lap	ping of	Cours	e Outc	omes (COs) w	ith P	rogra	mme	Out	omes	(POs)	- IMEF	17AE2	26
Pos	3	P01	P02	роз	P04	PO5	PO 6	PO 7	PO 8	PO 9	PO1 0	P01 1	PO12	PSO1	PSO2
	1	3	2	2	2	3	•	•	-	-	•		2	3	3
COs	2	3	3	2	3	3		•	-	-			2	3	3
\rightarrow	3	3	3	3	3	3	•		-	-	-	-	2	3	3
	4	3	3	3	3	3					•		2	3	3
Attain	ied	61.7 5	61.1 8	60.3 0	61.1 8	61.7 5		-	•	-	•	•	61.7 5	61.7 5	61.7 5
Targ	et	65	65	60	60	65		•	•	•			65	65	65

Signature	2020	1 DO 510 200	Plan	12113/2
	Course Instructor	Module Coordinator	нор	
Name	I Dakshina Murthy	I Dakshina Murthy	Dr.P.Lova	raju