

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

Accredited by NAAC with 'A' Grade, ISO 9001:2015 Certified Institution Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India <u>Department of Mechanical Engineering</u> <u>Programme Assessment Committee (PAC)</u> <u>Action Taken Report</u>

POs	ttainment level Batch: (2012-16) A.Y:2016-17				
	Target Level	Attainment Level	Observations		
PO1: Engineering knowledge : Apply the knowledge of mathematics, science, engineering Fundamentals and an engineering specialization to the solution of complex engineering problems.					
	65	67	Target reached Out of 70 courses, 64 courses are contributing to this PO1. Out of 64, only 40 courses including labs and miscellaneous subjects have reached the target greater than equal to 65%.		
comple	 Action 1: It is instructed to the concerned faculty members that the target not reached courses have once again to take a look to improve the program outcome. Action 2: Check the contribution of subject COs mapping with POs properly in all the courses and make a modification if necessary. Action 3: The below subjects are having seriously very low program outcomes. These details are forwarded to the concerned faculty members Seminar - I, Environmental Studies, Thermal Engineering Lab, Mini Project - II PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of protect. 				
mather	natics, natural so 65	ciences, and engineer 65	Target reached Out of 70 courses, 61 courses are contributing to this PO2. Out of 61, only 39 courses including labs and miscellaneous subjects have reached the target equal to		
Action 1: It is instructed to the concerned faculty members that the target equal to 65%.Action 2: Check the contribution of subject COs mapping with POs properly in all the courses and make a modification if necessary. Action 3: Identify the mathematical modelling formulations required in the concerned courses and give more focus to reach the target on this outcome. Action 4: The below subjects are having seriously very low program outcomes which is less than 50% Electrical & Electronics Lab, Seminar - I, Environmental Studies, Thermal Engineering Lab, Mini Project - II, Metrology & Instrumentation LabPO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate considerations.					
appropi	Design/development ns and design sy riate consideration	nent of solutions : rstem components or on for the public hea	Design solutions for complex engineering processes that meet the specified needs with		

Electri Lab, M PO5: Modern	ical & Elec lini Projec tool usa	ctronics Lab, Seminar et - II ge: Create, select, an	- I, Environmental Studies, Thermal Engineerin ad apply appropriate techniques, resources, an prediction and modelling to complex engineerin		
	urses and				
Action	Action 3: Check the contribution of subject COs mapping with POs properly in a the courses and make a modification if necessary.				
reache Action which	 Action 1: It is instructed to the concerned faculty members that the target m reached courses have once again to take a look to improve the program outcome. Action 2: The below subjects are having seriously very low program outcomes which is less than 50% 				
Action	1 1: It is	instructed to the co	subjects have reached the target to 65%. oncerned faculty members that the target no		
6	65	65	contributing to this PO4. Out of 48, only 2 courses including labs and miscellaneou		
synthesis of th	e informa	ation to provide valid	ments, analysis and interpretation of data, an conclusions. Target not reached Out of 70 courses, 48 courses ar		

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	Action 3: The b		n if necessary. ving seriously very low program outcomes		
	which is less the	an 50% rmal Engineering Lab,	Mini Project – II		
enginee	Environment a cering solutions	and sustainability:	Understand the impact of the professional vironmental contexts, and demonstrate the		
inite wite			Target not reached		
	65	61	Out of 70 courses, 19 courses are contributing to this PO7. Out of 19, only 13 courses including labs and miscellaneous subjects have reached the target greater than equal to 65%.		
	atmosphere con Action 2: Chec the courses and	ditions as a part of n k the contribution of 1 make a modification			
	PO 8: Ethics: Apply ethical principles and commit to professional ethics and				
respon	sibilities and nor	ms of the engineering	Target not reached		
	65	63	Out of 70 courses, 15 courses are contributing to this PO8. Out of 15, only 12 courses including labs and miscellaneous subjects have reached the target greater than equal to 65%.		
	Action 2: Check the courses and Individual and t	k the contribution of I make a modification	effectively as an individual, and as a member plinary settings.		
	65	60	Target not reached Out of 70 courses, 20 courses are contributing to this PO9. Out of 20, only 14 courses including labs and miscellaneous subjects have reached the target greater than equal to 65%.		
-	 Action 1: Increasing emphasis on seminars/ group discussions and to carry ou the lab experiments individually or in some cases as team members Action 2: Check the contribution of subject COs mapping with POs properly in a the courses and make a modification if necessary. Action 3: The below subjects are having seriously very low program outcome which is less than 50% and also includes various labs English-I, Seminar - I, Thermal Engineering Lab, Mini Project - II, Therm Engineering 				
the en and w): Communication	anity and with socie [.] orts and design doc	fectively on complex engineering activities with ty at large, such as, being able to comprehend umentation, make effective presentations, and		
give al	65	65	Target reached Out of 70 courses, 18 courses are contributing to this PO10. Out of 18, only 10 courses including labs and miscellaneous subjects have reached the target greater than equal to 65%.		

Action 1: Provide more audio/ video lectures to improve the communication skill of the students

Action 2: Check the contribution of subject COs mapping with POs properly in all the courses and make a modification if necessary.

Action 3: The below subjects are having seriously very low program outcomes which is less than 50%

English-I, Mini Project

PO 11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

		Target reached			
		Out of 70 courses, 31 courses are			
65	66	contributing to this PO11. Out of 31, only 17 courses including labs and miscellaneous subjects have reached the target greater than equal to 65%.			

Action 1: Impart the knowledge and understanding of the engineering and management principles to work out projects on multidisciplinary environments. **Action 2:** Select internship activities based on to work, as a member and leader in a team.

Action 3: Check the contribution of subject COs mapping with POs properly in all the courses and make a modification if necessary.

PO 12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

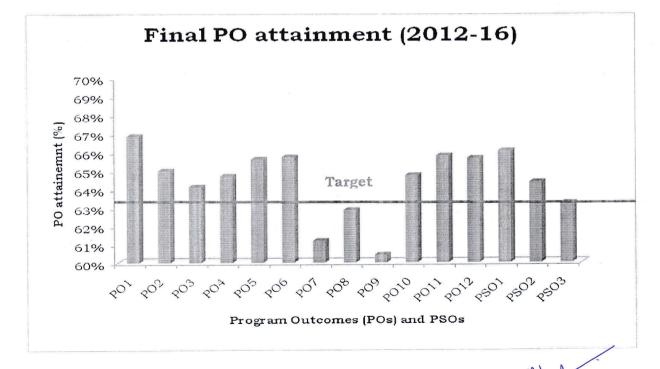
			Target reached		
	65	66	Out of 70 courses, 64 courses are contributing to this PO12. Out of 64, only 41 courses including labs and miscellaneous subjects have reached the target greater than equal to 65%.		
	Action 1: Encourage/Motivate the students about the importance of engineering subjects in higher studies				
	Action 2: Inculcate the students to develop the habit of self preparation				
	Action 3: Check the contribution of subject COs mapping with POs properly in all the courses and make a modification if necessary.				
	PSO 1: To apply the principles of thermal sciences to design and develop various thermal systems.				
	65	66	Target reached Out of 70 courses, 33 courses are contributing to this PSO1. Out of 33, only 16 courses including labs and miscellaneous subjects have reached the target greater than equal to 65%.		
15	Action 1: Though some models on thermal systems is shown/displayed but not reached to up to mark.				
	Action 2: Develop some more solar energy related thermal systems so that the				
	program specific outcome is fruitful.				

Action 3: Check the contribution of subject COs mapping with PSOs properly in all the courses and make a modification if necessary.

PSO2: To apply the principles of manufacturing technology, scientific management towards
improvement of quality and optimization of engineering systems in the design, analysis and
manufacturability of products.6564**Target not reached**

			Out of 70 courses, 38 courses are contributing to this PSO2. Out of 38, only 21 courses including labs and miscellaneous subjects have reached the target greater than equal to 65%.		
	 Action 1: Instructing the faculty members for preparing models, use some scientific techniques and optimization procedures. Action 2: Apply tribological procedures for finding the wear and tear of machinery components. 				
PSO3: T performa	Action 3: Check the contribution of subject COs mapping with PSOs properly in all the courses and make a modification if necessary.SO3: To apply the basic principles of mechanical engineering design for evaluation of erformance of various systems relating to transmission of motion and power, conservation				
oreneig	65	cess equipment. 63	Target not reached Out of 70 courses, 36 courses are contributing to this PSO3. Out of 36, only 27 courses including labs and miscellaneous subjects have reached the target greater than equal to 65%.		
	related to the opower Action 2: Cheo	lesign of various sys	nembers for preparing more prototype models tems in relating to transmission of motion and subject COs mapping with PSOs properly in tion if necessary.		

The above discussions which were made in the PAC were forwarded to DAC and HOD



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PAC Signatures

V. Neuto