



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC, ISO 9001:2015 Certified Institution
Approved by AICTE, New Delhi. and Affiliated to JNTUK, Kakinada
L.B. REDDY NAGAR, MYLAVARAM, KRISHNA DIST., A.P.-521 230.
Phone: 08659-222933, Fax: 08659-222931

DEPARTMENT OF CIVIL ENGINEERING

RECOMMENDATIONS/SUGGESTIONS REPORT

PO/PSO ATTAINMENTS

Batch: (2019-23)

A.Y:2023-24

POs	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.			
	70	75.17	Target reached Out of 51 courses, only 44 courses are contributing to this PO1. Out of 43, 31 courses are above PO attainment value of 70%.
	Action 1: It is instructed to the concerned faculty members that the target not reached courses to follow the teaching aid tools for better understanding of the subject. Action 2: More practicing of problems are needed for achieving good attainments in courses with much mathematical background. Action 3: Delivery methods should be modified for applying basic knowledge to the core problems so that the student can get acquainted through concepts easily.		
PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
	70	73.14	Target reached Out of 51 courses, only 38 courses are contributing to this PO2. Out of 38, 27 courses are above PO attainment value of 70%.
	Action 1: It is instructed to the concerned course and module coordinators that the target not reached courses have to look to improve the program outcome by changing the different pedagogical methods. Action 2: Formulation of problems and its analysis should be done in the class by making discussion with students. Action 3: Formulation of problems and their analysis in the above courses are to be practiced in classroom and laboratory through group discussion. Action 4: Encourage the students to perform a proper literature survey for analyzing and solving complex engineering problems.		
PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			
	70	73.69	Target reached Out of 51 courses, only 26 courses are contributing to this PO3. Out of 26, 17 courses are above PO attainment value of 70%.



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	Action 1: It is instructed to the concerned faculty members PO not attained courses are to be review to improve the program outcome. Action 2: Improving the students in the design/development of solutions for the local problems through workshops/projects, development of working/non-working models, etc..., Action 3: Open ended design/analysis problems should be given in assignments for improving the analytical ability.		
PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
	70	76.38	Target reached Out of 51 courses, only 10 courses are contributing to this PO4. Out of 10, 8 courses are above PO attainment value of 70%.
	Action 1: It is instructed to the concerned course and module coordinators that the target not reached courses should be reviewed for improved proper exposure to the subjects by using workshops/assignments etc., Action 2: Special care has to be taken to improve the analysis and investigation of problems using software tools and advanced equipment. Action 3: It is encouraged to arrange more industrial visits to improve industry exposure of students.		
PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.			
	70	75.98	Target reached Out of 51 courses, only 12 courses are contributing to this PO5. Out of 12, 8 courses are above PO attainment value of 70%.
	Action 1: Graduates should be exposed to modern tool usage in the respective labs/subjects. Action 2: Graduates should be exposed to modern tool usage in the respective labs/subjects. Action 3: Students are encouraged to use the modern tools that are available to carry out their mini project, major project, PAL, PBL, etc.		
PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			



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	65	78.22	Target reached Out of 51 courses, only 8 courses are contributing to this PO5. Out of 8, 7 courses are above PO attainment value of 65%.
	Action 1: Frequently conducting workshops as a part of course work can develop skills and will try to make some models based on societal issues. Action 3: Motivate the students to actively participate in social services and the interaction between industry and society.		
	PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.		
	70	76.67	Target reached Out of 51 courses, only 12 courses are contributing to this PO7. Out of 12, 10 courses are above PO attainment value of 70%.
	Action 1: More practical oriented projects are to be modeled. Action 2: Environmental activities like plantation, waste management model developments are to be awareness/guest lecturers initiated.		
	PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.		
	65	75.04	Target reached Out of 51 courses, only 9 courses are contributing to this PO8. Out of 9, 6 courses are above PO attainment value of 65%.
	Action 1: While solving the engineering practice oriented problems graduates have to follow the code of ethics. Action 2: Arranging guest lectures by practical professionals to students required by engineering professionalism.		
	PO 9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings		
	70	73.74	Target reached Out of 51 courses, only 18 courses are contributing to this PO9. Out of 18, 10 courses are above PO attainment value of 70%.
	Action 1: Increasing emphasis on internships, seminars, mini projects and main projects and to carry out the lab experiments individually or in some cases as team members. Action 2: Encouraging participation of students in various activities like workshops, seminars, etc,...		
	PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.		



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	70	73.88	Target reached Out of 51 courses, only 15 courses are contributing to this PO10. Out of 15, 8 courses are above PO attainment value of 70%.
	Action: Change the delivery content like involving more students in interaction to improve the communication skill of the students Action 1: Motivate the students in participating in the technical fests conducted in various colleges.		
	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.		
	65	75.54	Target reached Out of 51 courses, only 12 courses are contributing to this PO11. Out of 12, 9 courses are above PO attainment value of 65%.
	Action 1: Encouraging internship at leading industries to understand the gap between theory and practice and to improve the management skills required for professional handling of projects. Action 2: Involve in the internship activities based on the work, both as a member and leader in a team, to acquire knowledge of project management principles and finance. Action 3: Improve the teaching-learning process for the identified courses. Action 4: Students are encouraged to take up multidisciplinary projects.		
	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.		
	70	72.02	Target reached Out of 51 courses, only 46 courses are contributing to this PO12. Out of 46, 30 courses are above PO attainment value of 70%.
	Action 1: The faculty members should highlight the need for continuous learning by the graduates to get updated in their respective subject domains and handle the professional demand with ease. Action 2: Association Activities are conducted to develop critical thinking. Self-learning modules through SWAYAM & NPTEL courses are introduced to the students for inculcating the spirit of Continuing education. Action 3: Department conducts technical training/GATE classes for the graduates to motivate the students towards higher education and lifelong learning.		



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	complicated/real-life problems by the graduates should be periodically assessed by the faculty members through their regular evaluation and monitoring.		
1.	PSO 2: Possesses ability to plan, examine and analyze the various laboratory tests required for the professional demands.		
	70	72.73	Target reached Out of 51 courses, only 16 courses are contributing to this PSO2. Out of 16, 10 courses are above PO attainment value of 70%.
	Action 1: Graduates should be given rigorous training in performing/understanding the laboratory tests and analyzing the results through additional exercises. The faculty members should monitor their involvement and performance and guide them in this regard.		
	PSO 3: Possesses basic technical skills to pursue higher studies and professional practice in civil engineering domain.		
	70	71.81	Target reached Out of 51 courses, only 36 courses are contributing to this PSO3. Out of 36, 24 courses are above PO attainment value of 70%.
	Action 1: Graduates should be counselled the opportunities for higher studies and career development in their respective domains. They should be guided by the faculty members to improve their technical and communication skills in this regard.		

Co-Ordinator

Head of the Department

Head of the Department
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