



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC, ISO 9001:2018 Certified Institution
Approved by AICTE, New Delhi. and Affiliated to JNTUK, Kakinada
L.B. REDDY NAGAR, MYLAVARAM, N.T.R. DIST., A.P.-521 230.
Phone: 08659-222933, Fax: 08659-222931

DEPARTMENT OF CIVIL ENGINEERING

RECOMMENDATIONS/SUGGESTIONS REPORT

PO/PSOATTAINMENTS

Batch: (2021-25)

A.Y:2025-26

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.			
	2.10	1.89	Target not reached Out of 65 courses, only 56 courses are contributing to this PO1. Out of 56, 22 courses are above PO attainment value of 2.10.
	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.			
	2.10	1.86	Target not reached Out of 65 courses, only 41 courses are contributing to this PO2. Out of 41, 10 courses are above PO attainment value of 2.10.
	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.		
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.			
	2.10	2.02	Target not reached Out of 65 courses, only 27 courses are contributing to this PO3. Out of 27, 11 courses are above PO attainment value of 2.10.
	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		



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	problems through workshops/projects, development of working/non-working models, etc...,		
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.			
	2.10	1.99	Target not reached Out of 65 courses, only 30 courses are contributing to this PO4. Out of 30, 13 courses are above PO attainment value of 2.10.
	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 equipments.		
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.			
	2.10	2.37	Target reached Out of 65 courses, only 12 courses are contributing to this PO5. Out of 2.10.
	Action 1: Some video lectures are to be given based on the criticality of the courses of those which have new equipments. Action 2: Prepare some case studies or solve some numerical problems using freely available software tools.		
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.			
	1.95	2.07	Target reached Out of 65 courses, only 16 courses are contributing to this PO5. Out of 16, 9 courses are above PO attainment value of 1.95.
	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 2: 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.			
	2.10	2.03	Target not reached Out of 65 courses, only 17 courses are contributing to this PO7. Out of 17, 9 courses are



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			above PO attainment value of 2.10.
	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.			
	1.95	2.35	Target reached Out of 65 courses, only 8 courses are contributing to this PO8. Out of 8, 5 courses are above PO attainment value of 1.95.
	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			
	2.10	2.02	Target not reached Out of 65 courses, only 16 courses are contributing to this PO9. Out of 16, 10 courses are above PO attainment value of 2.10.
	Action 1: Increasing emphasis on internships, CSP 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.			
	2.10	1.95	Target not reached Out of 65 courses, only 23 courses are contributing to this PO10. Out of 23, 11 courses are above PO attainment value of 2.10.
	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.			
	1.95	2.30	Target reached Out of 65 courses, only 10 courses are contributing to this PO11. Out of 10, 7 courses



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			are above PO attainment value of 1.95.
	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.		
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.			
	2.10	1.82	Target not reached Out of 65 courses, only 45 courses are contributing to this PO12. Out of 45, 12 courses are above PO attainment value of 2.10.
	Action 1: Encourage/Motivate the students about the importance of engineering fundamentals importance in higher studies Action 2: Inculcate the students to develop the habit of self preparation and self learning through textbooks, journals, print media, electric media, NPTEL videos, etc,....		
PSO 1: Possesses necessary skill set to analyze and design various systems using analytical and software tools related to civil engineering			
	2.10	1.94	Target not reached Out of 65 courses, only 27 courses are contributing to this PSO1. Out of 27, 11 courses are above PSO attainment value of 2.10.
	Action 1: It is instructed to the concerned course and module coordinators that the target not reached courses have to think for improvement of PO attainment. Action 2: Special care has to be taken to improve the analysis and investigation of problems using software tools and advanced equipments. Action 3: Change the teaching methodology such that higher cognitive level problems especially in design orientation courses are to be discussed in the class rooms.		
PSO 2: Possesses ability to plan, examine and analyze the various laboratory tests required for the professional demands			
	2.10	2.17	Target reached Out of 65 courses, only 22 courses are contributing to this PSO2. Out of 22, 15 courses are above PSO attainment value of 2.10.
	Action 1: Increasing emphasis on internships, CSP projects and main projects and to carry out the lab experiments individually or in some cases as team members to analyze the data needed for professional requirements.		
PSO 3: Possesses basic technical skills to pursue higher studies and professional practice in civil engineering domain.			
	2.10	1.89	Target not reached Out of 65 courses, only 35 courses are contributing to this PSO3. Out of 35, 12 courses are above PSO attainment value of 2.10.



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Action 1: Encourage/Motivate the students about the importance of higher studies in their career.

Action 2: Inculcate the students to develop the habit of self preparation and awareness about the developments that are occurring in real life and the technical aspects behind those developments.


Head of the Department

Head of the Department
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MYLAVARAM-521 230., NTR Dt, AP.