



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: (2020-24)

A.Y:2024-25

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	64.04	Target not reached Out of 41 courses, only 40 courses are contributing to this PO1. Out of 40, 18 courses are above PO attainment value of 70%.
	Action 1: The courses with less than 70% of PO attainment are identified. Those course details are forwarded to the concerned course coordinators through module coordinators. Necessary improvements are recommended in teaching-learning methodology for these courses to improve the PO attainment for the forthcoming batches. Action 2: Application of fundamentals should be covered through case studies, live examples etc for more clarity of subjects. Action 3: Giving additional assignments for the specific courses that contributed less in attainments. Action 4: Students are encouraged to participate in technical events related to the above courses.		
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	63.73	Target not reached Out of 41 courses, only 28 courses are contributing to this PO2. Out of 28, 16 courses are above PO attainment value of 70%.
	Action 1: The courses with less than 70% of PO attainment are identified. Those course details are forwarded to the concerned course coordinators through the module coordinators. Necessary improvements are recommended in teaching-learning methodology for the above courses to improve the PO attainment for the forthcoming batches. Action 2: Formulation of problems and their analysis in the above courses are to be practiced in classroom and laboratory through group discussion. Action 3: 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			



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consideration for the public health and safety, and the cultural, societal, and environmental considerations.			
	70	63.81	Target not reached Out of 41 courses, only 21 courses are contributing to this PO3. Out of 21, 11 courses are above PO attainment value of 70%.
Action 1: The courses with less than 70% of PO attainment are identified. Those details are forwarded to the concerned course coordinators through the module coordinators. Necessary improvements are recommended in teaching-learning methodology for the above courses to improve the PO attainment for the forthcoming batches. Action 2: Open ended design/analysis problems should be given in assignments for improving the analytical ability. Action 3: Higher cognitive level problems particularly in analysis orientated courses should be discussed in the class rooms.			
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	64.49	Target not reached Out of 41 courses, only 10 courses are contributing to this PO4. Out of 10, 4 courses are above PO attainment value of 70%.
Action 1: The concerned faculty are advised to emphasize more on interpretation of obtained data with respect to the prevailing guidelines. Action 2: It is instructed to train the students to interpret the data obtained in experimental and analytical approaches. 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	67.82	Target not reached Out of 41 courses, only 11 courses are contributing to this PO5. Out of 11, 6 courses are above PO attainment value of 70%.
Action 1: The courses with less than 70% of PO attainment are identified. These details are forwarded to the concerned course coordinators through the module coordinators. To motivate the graduates to work in domain based modern tools in academic activities.			



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	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.			
	65	62.16	Target not reached Out of 41 courses, only 11 courses are contributing to this PO5. Out of 11, 3 courses are above PO attainment value of 65%.
	Action 1: Graduates should be exposed to the primary aspects of safety, health, and societal issues in respective courses/labs. Action 2: More students are encouraged to participate in attending co-curricular and extracurricular activities. Action 3: Students are encouraged to do the projects related to societal needs.		
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	62.59	Target not reached Out of 41 courses, only 12 courses are contributing to this PO7. Out of 12, 5 courses are above PO attainment value of 70%.
	Action 1: Graduates should be made aware of the connection of Civil Engineering discipline with the environment in day-to-day life and the necessity of sustainable development. Action 2: Faculty members are instructed to teach the responsibilities of engineers towards the environment while developing engineering solutions. Action 3: Courses concerned to environmental and sustainability are recommended to be included for forthcoming curriculum.		
PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
	65	64.58	Target not reached Out of 41 courses, only 6 courses are contributing to this PO8. Out of 6, 2 courses are above PO attainment value of 65%.
	Action 1: The students are strictly advised to follow the code of ethics in engineering practices, sports and cultural activities. Action 2: It is instructed to impart ethical attitude and behavior among all the		



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	students by the faculty. Action 3: To arrange guest lectures to bring the awareness in code of ethics.		
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	65.47	Target not reached Out of 41 courses, only 10 courses are contributing to this PO9. Out of 10, 5 courses are above PO attainment value of 70%.
	Action 1: Graduates should be highlighted the significance of team work, individual responsibility in carrying out the civil engineering related lab/field works in all the concerned subjects. Action 2: Students are encouraged to carry out the curricular (Projects, Seminars, internships, etc.) and co-curricular activities as a team so that they will have the opportunity to work in diverse teams and different roles. Action 3: Students are encouraged to conduct and participate in various programs at the college level to get practice in working as a team.		
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.			
	70	65.92	Target not reached Out of 41 courses, only 12 courses are contributing to this PO10. Out of 12, 6 courses are above PO attainment value of 70%.
	Action 1: The courses with less than 65% PO attainment are identified. These details are forwarded to the concerned course coordinators through the module coordinators. Action2: Change the delivery content like involving more students in interaction/group discussion to improve the communication skill of the students. Action 3: Soft skill training is imparted to students to enhance various aspects of communication or technical talks through group discussion, presentation, and new learning outcomes. Action 4: Continuous assessment of Mini-Projects, Internships, and Main Projects given to the students will help them to improve their oral, presentation, and report writing skills.		
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	63.2	Target not reached Out of 41 courses, only 8 courses are contributing to this PO11. Out of 8, 2 courses are above PO attainment value of 65%.



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	Action 1: Impart the knowledge and understanding of the engineering and management principles to work out projects in multidisciplinary environments. 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	63.24	Target not reached Out of 41 courses, only 32 courses are contributing to this PO12. Out of 32, 13 courses are above PO attainment value of 70%.
	Action 1: Inculcate the students to develop the habit of self-preparation and self-learning through textbooks, journals, print media, electronic media, NPTEL videos, etc. Action 2: Faculty members are expected to teach the importance of core courses in life-long learning. Action 3: 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 4: Department conducts technical training/GATE classes for the graduates to motivate the students towards higher education and lifelong learning.		
PSO 1: Possesses necessary skill set to analyze and design various systems using analytical and software tools related to civil engineering			
	70	63.49	Target not reached Out of 41 courses, only 23 courses are contributing to this PSO1. Out of 23, 10 courses are above PSO attainment value of 70%.
	Action 1: The courses with less than 70% of PSO attainment are identified. Those course details are forwarded to the concerned course coordinators through module coordinators. Necessary improvements are recommended in teaching-learning methodology for these courses to improve the PSO attainment for the forthcoming batches. Action 2: Technical knowledge in the subject domains, analytical abilities in solving complicated/real-life problems by the graduates should be periodically assessed by the faculty members through their regular evaluation and monitoring.		
PSO 2: Possesses ability to plan, examine and analyze the various laboratory tests required for the professional demands			
	70	64.99	Target not reached



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			Out of 41 courses, only 16 courses are contributing to this PSO2. Out of 16, 7 courses are above PSO attainment value of 70%.
Action 1: The courses with less than 70% of PSO attainment are identified. Those details are forwarded to the concerned course coordinators through module coordinators. Necessary improvements are recommended in teaching-learning methodology for these courses to improve the PSO attainment for the forthcoming batches. Action 2: 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	63.06	Target not reached Out of 41 courses, only 27 courses are contributing to this PSO3. Out of 27, 9 courses are above PSO attainment value of 70%.
Action 1: Graduates should be counseled 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.			

For K2

Head of the Department

Head of the Department
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