



LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING (Autonomous)

L.B. Reddy Nagar, Mylavaram-521230. A.P, INDIA

Affiliated to JNTUK, Kakinada & Approved by AICTE New Delhi
NAAC Accredited with "A" grade, New Delhi & Certified by ISO 9001:2015

DEPARTMENT OF CIVIL ENGINEERING

<http://www.lbrce.ac.in>, hodcivil@lbrce.ac.in Ph: 08659-222933, Fax: 08659-222931

Recommendations/Suggestions Report

PO attainment level

Batch: (2014-18)

A.Y:2017-18

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.			
	60	72.5	Target reached Out of 68 courses, only 56 courses are contributing to this PO1. Out of 56, 46 courses are above PO attainment value of 60%.
<p>Action 1: It is instructed to the concerned faculty members that the target not reached courses have a look to improve the program outcomes by changing the delivery methods and content presentations.</p> <p>Action 2: Knowledge of mathematics in application of civil subjects are to be improved by giving more assignments.</p>			
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.			
	60	70.8	Target reached Out of 68 courses, only 54 courses are contributing to this PO2. Out of 54, 47 courses are above PO attainment value of 60%.
<p>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.</p> <p>Action 2: Formulation of problems and its analysis should be done in the class by making discussion with students.</p>			
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.			
	60	70.8	Target reached Out of 68 courses, only 29 courses are contributing to this PO3. Out of 29, 25 courses are above PO attainment value of 60%.
<p>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.</p> <p>Action 2: Change the teaching methodology such that higher cognitive level problems especially design orientation courses are to be discussed in the class rooms.</p>			
PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and			



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synthesis of the information to provide valid conclusions.			
	60	71.1	Target reached Out of 68 courses, only 37 courses are contributing to this PO4. Out of 37, 34 courses are above PO attainment value of 60%.
<p>Action 1: It is instructed to the concerned course and module coordinators that the target not reached courses have to think for improvement of conduct and investigations of problems especially in Geotechnical engineering.</p> <p>Action 2: Special care has to be taken to improve the analysis and investigation of problems.</p>			
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.			
	60	71.7	Target reached Out of 68 courses, only 35 courses are contributing to this PO5. Out of 35, 31 courses are above PO attainment value of 60%.
<p>Action 1: It is instructed to the concerned course and module coordinators that the target not reached courses have to think for improvement of conduct and investigations of problems especially in Transportation engineering and Geotechnical engineering.</p> <p>Action 2: Some video lectures are to be given based on the criticality of the course.</p>			
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.			
	60	67.6	Target reached Out of 68 courses, only 27 courses are contributing to this PO6. Out of 27, 21 courses are above PO attainment value of 60%.
Action 1: Motivate the students to actively participate in social services and the interaction between industry and society.			
PO 7: 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.			
	60	70.2	Target reached Out of 68 courses, only 38 courses are contributing to this PO7. Out of 38, 30 courses are above PO attainment value of 60%.
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.			
PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
	60	69	Target reached Out of 68 courses, only 27 courses are



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			contributing to this PO8. Out of 27, 21 courses are above PO attainment value of 60%.
Action 1: While solving the engineering practice oriented problems graduates have to follow the 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			
	60	73.8	Target reached Out of 68 courses, only 20 courses are contributing to this PO9. Out of 20, 17 courses are above PO attainment value of 60%.
Action: Increasing emphasis on seminars/ group discussions and to carry out the lab experiments individually or in some cases as team members.			
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.			
	60	74.83	Target reached Out of 68 courses, only 21 courses are contributing to this PO10. Out of 21, 19 courses are above PO attainment value of 60%.
Action: Change the delivery content like involving the more students in interaction to improve the communication skill of the students			
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.			
	60	68.79	Target reached Out of 68 courses, only 28 courses are contributing to this PO11. Out of 28, 24 courses are above PO attainment value of 60%.
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.			
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.			
	60	71.33	Target reached Out of 68 courses, only 39 courses are contributing to this PO12. Out of 39, 34 courses are above PO attainment value of 60%.
Action 1: Encourage/Motivate the students about the importance of engineering courses importance in higher studies Action 2: Inculcate the students to develop the habit of self preparation and life is nothing but learning new information.			



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Action 3: Periodic reading is required in engineering courses			
PSO 1: Possesses necessary skill set to analyze and design various systems using analytical and software tools related to civil engineering			
	60	72.5	Target reached Out of 68 courses, only 50 courses are contributing to this PSO1. Out of 50, 42 courses are above PO attainment value of 60%.
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.			
PSO 2: Possesses ability to plan, examine and analyse the various laboratory tests required for the professional demands			
	60	69.23	Target reached Out of 68 courses, only 51 courses are contributing to this PSO2. Out of 51, 40 courses are above PO attainment value of 60%.
Action 1: It is instructed to the concerned faculty members that the target not reached courses have a look to improve the program outcomes by changing the delivery methods and content presentations.			
PSO 3: Possesses basic technical skills to pursue higher studies and professional practice in civil engineering domain.			
	60	70.26	Target reached Out of 68 courses, only 42 courses are contributing to this PSO3. Out of 42, 33 courses are above PO attainment value of 60%.
Action 1: Encourage/Motivate the students about the importance of engineering courses importance in higher studies Action 2: Inculcate the students to develop the habit of self preparation and life is nothing but learning new information. Action 3: Periodic reading is required in engineering courses			

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