



# 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

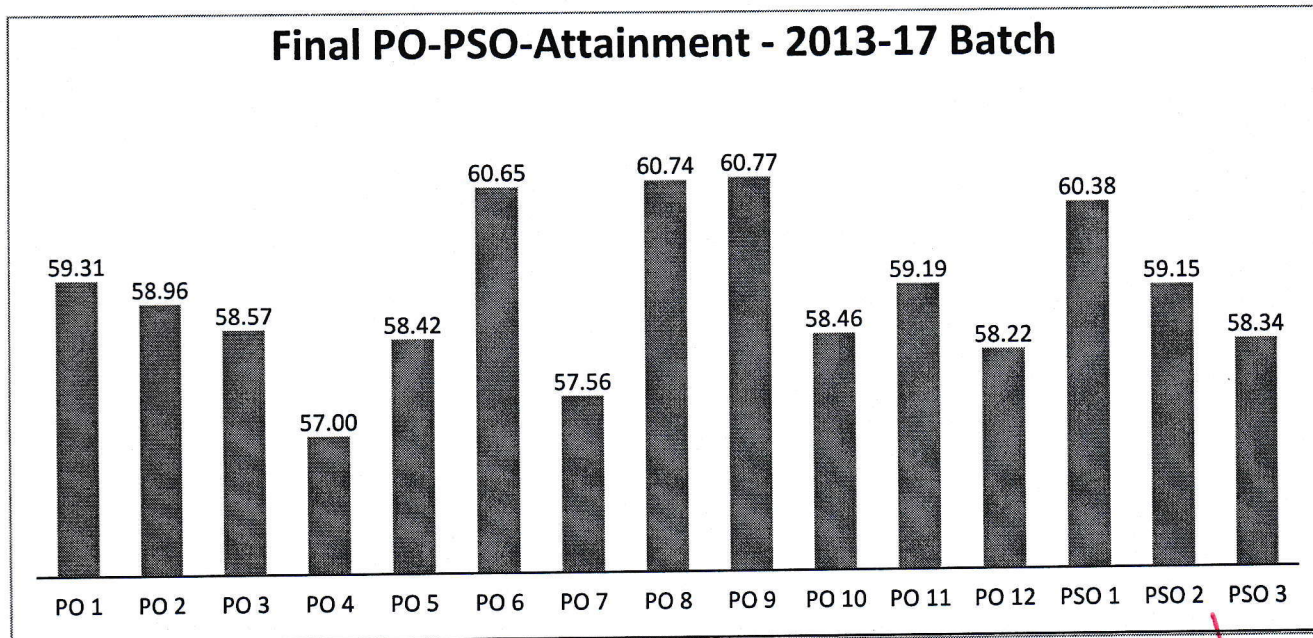
L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

## Department of Electronics & Communication |Engineering

### POs& PSOs Attainment Levels for 2013-17 Batch

| Final Attainment -2013-17 Admitted Batch (R11-Regulation) |            |                                |                 |                     |                        |                      |
|-----------------------------------------------------------|------------|--------------------------------|-----------------|---------------------|------------------------|----------------------|
| Program Outcomes                                          | Target (%) | Direct Methods                 |                 | Indirect Methods    |                        | Final Attainment (%) |
|                                                           |            | PO Attainment through CO's (%) | Exit Survey (%) | Employer Survey (%) | Student Portfolios (%) |                      |
| PO 1                                                      | 65.00      | 59.75                          | 59.83           | 77.14               | 29.16                  | 59.31                |
| PO 2                                                      | 65.00      | 59.20                          | 59.72           | 77.14               | 29.16                  | 58.96                |
| PO 3                                                      | 65.00      | 58.78                          | 58.77           | 77.14               | 29.16                  | 58.57                |
| PO 4                                                      | 65.00      | 57.76                          | 58.06           | 71.43               | 29.16                  | 57.00                |
| PO 5                                                      | 65.00      | 59.24                          | 58.77           | 74.29               | 29.16                  | 58.42                |
| PO 6                                                      | 65.00      | 58.04                          | 65.05           | 77.14               | 44.91                  | 60.65                |
| PO 7                                                      | 65.00      | 54.54                          | 64.22           | 71.43               | 44.91                  | 57.56                |
| PO 8                                                      | 65.00      | 58.94                          | 64.93           | 74.29               | 44.91                  | 60.74                |
| PO 9                                                      | 65.00      | 58.54                          | 68.30           | 80                  | 34.01                  | 60.77                |
| PO 10                                                     | 65.00      | 57.39                          | 66.47           | 74.29               | 29.16                  | 58.46                |
| PO 11                                                     | 65.00      | 60.22                          | 65.28           | 71.43               | 25.46                  | 59.19                |
| PO 12                                                     | 65.00      | 58.02                          | 65.17           | 71.43               | 29.16                  | 58.22                |
| PSO 1                                                     | 65.00      | 59.54                          | 62.09           | 82.86               | 29.16                  | 60.38                |
| PSO 2                                                     | 65.00      | 59.60                          | 59.36           | 77.14               | 29.16                  | 59.15                |
| PSO 3                                                     | 65.00      | 58.73                          | 60.31           | 74.29               | 29.16                  | 58.34                |

### Final PO-PSO-Attainment - 2013-17 Batch



*POs only  
3-7-17*

**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
(Autonomous & Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi,  
NAAC Accredited with 'A' grade, Accredited by NBA, Certified by ISO 9001:2015)  
L B Reddy Nagar, Mylavaram-521 230, Krishna District, Andhra Pradesh.

---

Date: 03.07.2017

**CIRCULAR**






There will be a meeting of Program Assessment Committee (PAC) to discuss the final attainment of the POs and PSOs of 2013-Admitted batch to be held on **04-07-2017**

**Agenda:**

1. To discuss the PO and PSO attainment for 2017 passed out students.
2. Any suggestions from the chairman for improvement in attainment. process.

Venue: ECE HOD Chamber – 09:50 AM

  
HOD, ECE

| S. No | Name of the Faculty            | Signature                                                                             |
|-------|--------------------------------|---------------------------------------------------------------------------------------|
| 1     | Prof. B Ramesh Reddy, Chairman |  |
| 2     | Dr A Narendra Babu, Member     |  |
| 3     | Mr Y Amar Babu, Member         |  |
| 4     | Mr. G L N Murthy, Member       |  |
| 5     | Mr. M K Linga Murthy, Member   |  |





**Actions Taken for improvement of POs and PSOs**

| <b>PO</b>                                                                                                                                                                                                                                                     | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|--------------------|
| PO1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems                                                                                                 | 65            | 59.31           | Target not reached |
| Action1: After observation it was felt that student should be practiced with more number of problems.<br>Action2:Delivery methods should be modified.                                                                                                         |               |                 |                    |
| <b>PO</b>                                                                                                                                                                                                                                                     | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PO2: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences                                           | 65            | 58.96           | Target not reached |
| Action1: Students should be more practiced on mathematical and advanced courses                                                                                                                                                                               |               |                 |                    |
| <b>PO</b>                                                                                                                                                                                                                                                     | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PO3: 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. | 65            | 58.57           | Target not reached |
| Action1: Problem solving skills need to be improved further .<br>Action2:Delivery methods should be modified.                                                                                                                                                 |               |                 |                    |
| <b>PO</b>                                                                                                                                                                                                                                                     | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PO4: 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.                                                                   | 65            | 57.00           | Target not reached |
| Action1:The students should be more trained in mathematical oriented course particularly Lateral entry students stream.<br>Action2: The courses that were foundations must be dealt by including more practice.                                               |               |                 |                    |
| <b>PO</b>                                                                                                                                                                                                                                                     | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PO5: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.                                          | 65            | 58.42           | Target not reached |
| Action1: Foundation courses must be thoroughly injected into students using advanced tools.                                                                                                                                                                   |               |                 |                    |
| <b>PO</b>                                                                                                                                                                                                                                                     | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PO6: 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            | 60.65           | Target not reached |
| Action1: Courses in basic sciences category as well as course with more problematic approach need to be given more attention.                                                                                                                                 |               |                 |                    |
| <b>PO</b>                                                                                                                                                                                                                                                     | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PO7: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development                                                                           | 65            | 57.56           | Target not reached |



|                                                                                                                                                                                                                                                                                         |               |                 |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|--------------------|
| Action1: -- Courses in basic sciences category need to be given more attention.                                                                                                                                                                                                         |               |                 |                    |
| <b>PO</b>                                                                                                                                                                                                                                                                               | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PO8: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice                                                                                                                                                              | 65            | 60.74           | Target not reached |
| Action1: Students will be encouraged to participate in various activities to enhance their skills.                                                                                                                                                                                      |               |                 |                    |
| <b>PO</b>                                                                                                                                                                                                                                                                               | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PO9: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings                                                                                                                                                               | 65            | 60.77           | Target not reached |
| Action1: Students will be encouraged to participate in various activities to enhance their skills.                                                                                                                                                                                      |               |                 |                    |
| <b>PO</b>                                                                                                                                                                                                                                                                               | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PO10: 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 | 65            | 58.46           | Target not reached |
| Action1: Students will be encouraged to participate in various activities to enhance their skills.                                                                                                                                                                                      |               |                 |                    |
| <b>PO</b>                                                                                                                                                                                                                                                                               | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PO11: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.                                                                 | 65            | 59.19           | Target not reached |
| Action1: Students will be encouraged to participate in various activities to enhance their skills.                                                                                                                                                                                      |               |                 |                    |
| <b>PO</b>                                                                                                                                                                                                                                                                               | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PO12: 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.                                                                                                                     | 65            | 58.22           | Target not reached |
| Action1: More practicing of problems are needed for achieving good attainment with much mathematical background                                                                                                                                                                         |               |                 |                    |
| Action2: Delivery methods should be modified so that the student can get acquainted through concepts easily.                                                                                                                                                                            |               |                 |                    |
| Action3: Few core courses whose syllabus is too vast can be redesigned in new regulations.                                                                                                                                                                                              |               |                 |                    |
| Action4: Students should be acquainted with latest developments                                                                                                                                                                                                                         |               |                 |                    |
| <b>PSO</b>                                                                                                                                                                                                                                                                              | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PSO1: Design and develop modern communication technologies for building the inter disciplinary skills to meet current and future needs of industry.                                                                                                                                     | 65            | 60.38           | Target not reached |
| Action1: More practicing of problems are needed for achieving good attainment with much mathematical background                                                                                                                                                                         |               |                 |                    |
| Action2: Delivery methods should be modified so that the student can get acquainted through concepts easily.                                                                                                                                                                            |               |                 |                    |
| Action3: Few core courses whose syllabus is too vast can be redesigned in new regulations.                                                                                                                                                                                              |               |                 |                    |
| <b>PSO</b>                                                                                                                                                                                                                                                                              | <b>Target</b> | <b>Attained</b> | <b>Observation</b> |
| PSO2: Design and Analyze Analog and Digital Electronic Circuits or systems and Implement real time applications in the field of VLSI and Embedded Systems using relevant tools                                                                                                          | 65            | 59.15           | Target not reached |
| Action1: More practicing of problems are needed for achieving good attainment with much mathematical background.                                                                                                                                                                        |               |                 |                    |
| Action2: Delivery methods should be modified so that the student can get acquainted through concepts easily.                                                                                                                                                                            |               |                 |                    |

| PSO                                                                                                                  | Target | Attained | Observation        |
|----------------------------------------------------------------------------------------------------------------------|--------|----------|--------------------|
| PSO3: Apply the Signal processing techniques to synthesize and realize the issues related to real time applications. | 65     | 58.34    | Target not reached |

Action1: More practicing of problems are needed for achieving good attainment with much mathematical background.

Action2: Delivery methods should be modified so that the student can get acquainted through concepts easily.

Action3: Few core courses whose syllabus is too vast can be redesigned in new regulations.

\*It was observed in common that the contribution from student portfolio is less and not satisfactory, it is concluded that student should be more encouraged towards participation in co and Extracurricular activities in upcoming years.

\*Further, the steps to be taken for improving the attainment of COs are discussed in the PAC meeting and will be implemented in due course of time.



Head of the Department

Date:04.07.2017