



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

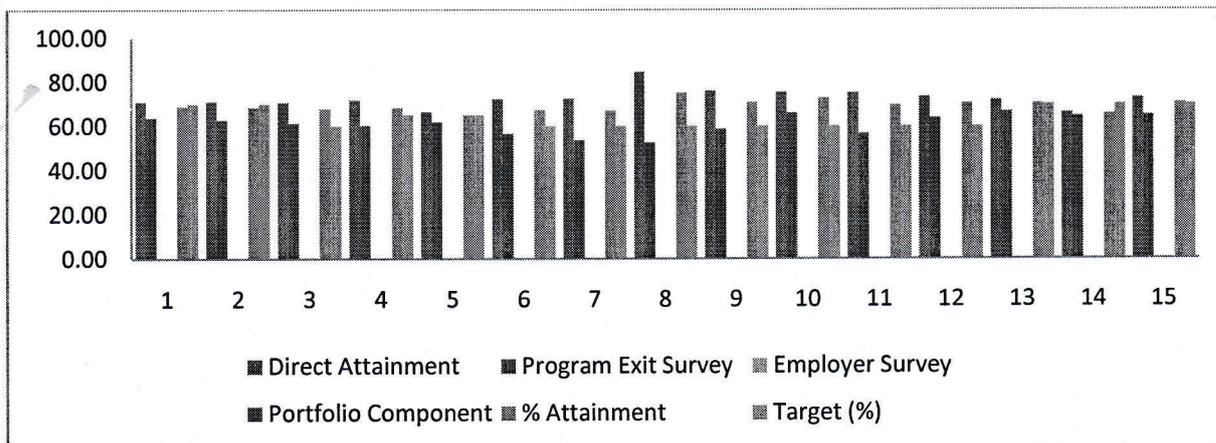
Accredited by NAAC with 'A' Grade, ISO 9001:2015 Certified Institution

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 2014 Admitted Batch

Assessment Tool	POs												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
Target (%)	70.0	70.0	60.0	65.0	65.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	70.0	70.0	70.0
Direct Attainment	70.9	71.1	70.6	71.6	66.2	72.1	72.4	84.6	76.0	75.5	75.1	73.3	71.9	65.9	72.9
Program Exit Survey	67.4	68.6	67.7	65.1	65.0	65.6	64.6	68.5	72.5	69.0	68.1	67.4	72.2	69.6	69.0
Employer Survey	78.0	74.0	70.0	68.0	72.7	68.0	74.0	68.0	74.0	78.0	66.0	78.0	82.0	78.0	80.0
Portfolio Component	45.6	45.6	45.6	47.6	47.6	35.7	22.2	20.8	29.5	50.6	35.7	45.6	45.6	45.6	45.6
% Final Attainment	68.7	68.6	67.8	68.2	64.9	67.4	66.8	74.9	70.8	72.6	69.5	70.4	70.3	65.4	70.5



[Signature]
Coordinator, PAC

[Signature]
Head of the Department



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Department of ECE

Date: 09.07.2018

All the members of Program assessment Committee(PAC) are informed to present for the meeting on 16th July,2018 from 2.00 PM onwards to assess the PO and PSO attainments of 2014 admitted batch.

Venue: HOD's Chamber

Head of the Department

S. No	Name of the faculty	Designation	Signature
1	Dr.Y.Amar Babu(Chairman)	Professor	
2	Dr. G.Srinivasa Rao(Co ordinator)	Professor	
3	Dr. P.Lachi Reddy(Member)	Professor	
4	Dr.M.Venkata Sudhakar(Member)	Professor	
5	Dr. Y.S.V.Raman(Member)	Professor	
6	Dr. G.Srinivasulu(Member)	Professor	
7	Mr. G.L.N.Murthy(Member)	Assoc. Professor	
8	Mr. M.K.Linga Murthy(Member)	Sr. Asst. Professor	

Minutes of PAC meeting held on 16th July,2018

Actions Taken for improvement of POs and PSOs

PO	Target	Attained	Observation
PO1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems	70	68.77	1.Target not reached 2.Direct Attainment levels of COs in CP Lab, EDC Lab, SSP Lab, DSD-VHDL,EMI,TSSN, ADC Lab, Seminar, VLSID and Mini Projects Courses are not up to the mark 3.Contribution through indirect attainment is not up to the mark
<p>Action1: Strengthening of the PO attainment can be carried out by revising the syllabus of courses that contributed less to the attainment.</p> <p>Action2 : Strengthening of attainment of Laboratory courses can be achieved by upgrading Laboratories</p> <p>Action3: Students will be encouraged to participate in co curricular activities that contribute to the PO as student port folio contributed less.</p> <p>Action4: The attainment levels through contribution of placements and higher studies can be further improved by introducing courses that enhance the employability skills.</p>			
PO	Target	Attained	Observation
PO2: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences	70	68.6	1.Target not reached 2.Direct Attainment levels of COs in CP Lab, EDC, SSP Lab, DSD-VHDL,EMI,MPMC,TSS N, ADC Lab, Seminar and Mini Projects Courses are not up to the mark 3.Contribution through indirect attainment is not up to the mark
<p>Action1: Strengthening of the PO attainment can be carried out by revising the syllabus of courses that contributed less to the attainment.</p> <p>Action2 : Strengthening of attainment of Laboratory courses can be achieved by upgrading Laboratories</p> <p>Action3: Students will be encouraged to participate in co curricular activities that contribute to the PO as student port folio contributed less.</p> <p>Action4: The attainment levels through contribution of placements and higher studies can be further improved by introducing courses that enhance the employability skills.</p>			
PO	Target	Attained	Observation
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.	60	67.83	1.Target is reached 2.Direct Attainment levels of COs in CP Lab, EDC,EMFW, SSP Lab, DSD-VHDL,EMI, Seminar Courses are not up to the mark

			3. Contribution through indirect attainment is not up to the mark
<p>Action1: Strengthening of the PO attainment can be carried out by revising the syllabus of courses that contributed less to the attainment.</p> <p>Action2 : Strengthening of attainment of Laboratory courses can be achieved by upgrading Laboratories</p> <p>Action3: Students will be encouraged to participate in co curricular activities that contribute to the PO as student port folio contributed less.</p> <p>Action4: The attainment levels through contribution of placements and higher studies can be further improved by introducing courses that enhance the employability skills.</p> <p>Action5: To strengthen the portfolio components students will be encouraged to undergo certification programs.</p>			
PO	Target	Attained	Observation
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	68.27	1..Target is reached 2.Direct Attainment levels of COs in SSP Lab, ADC Lab seminar Courses are not up to the mark 3.Contribution through indirect attainment is not up to the mark
<p>Action1 : Strengthening of attainment of Laboratory courses can be achieved by including advanced experiments.</p> <p>Action2: Students will be encouraged to participate in co curricular activities that contribute to the PO as student port folio contributed less.</p> <p>Action3: The attainment levels through contribution of placements and higher studies can be further improved by introducing courses that enhance the employability skills.</p> <p>Action4: The students will be further encouraged towards self learning courses</p>			
PO	Target	Attained	Observation
PO5: 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.	65	65	1..Target is reached 2 CO attainment levels in SSP Lab, DSD-VHD,ADC Lab, Seminar course are not up to the mark. 3.Contribution through portfolio component is lagging
<p>Action1: As this PO is marginally attained, further improvement can be achieved by upgrading the Laboratory experiments.</p> <p>Action2: As the contribution by Analog and Digital Communication Laboratory is not satisfactory , the Lab is divided into Analog Communications Lab and Digital Communications Lab</p> <p>Action3: Students will be encouraged to participate in co curricular activities that contribute to the PO as student port folio contributed less.</p> <p>Action4: The attainment levels through contribution of placements and higher studies can be further improved by introducing courses that enhance the employability skills.</p> <p>Action5: In addition to existing regular laboratories, students are encouraged to use advanced laboratories effectively.</p>			
PO	Target	Attained	Observation
	60	67.46	1.Target is reached

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			2.Seminar course contribution is lagging.
Action1: In addition to existing ILP course , participation in self learning courses will be further improved.			
PO	Target	Attained	Observation
PO7: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development	60	66.81	1..Target is reached 2.Contribution through extension activity is lagging
Action1: The attainment of the Program outcome can be made consistent by encouraging the students to participate in Extension activities.			
PO	Target	Attained	Observation
PO8: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	60	74.99	1..Target is reached 2.Contribution through extension activity is lagging
Action1: To further strengthen the attainment, participation of extracurricular and co curricular activities is made mandatory in revised regulations within which students will be encouraged to participate in various activities to enhance their skills. Action 2: The students will be encouraged to will be educated on the role of ethical practices on relevant platforms.			
PO	Target	Attained	Observation
PO9: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	60	70.87	1..Target is reached 2.Contribution as an individual in the courses like seminar and mini project is not up to the mark.
Action1: To strengthen the attainment, participation of extracurricular and co curricular activities is made mandatory in revised regulations within which students will be encouraged to participate in various activities to enhance their skills. Action2: Multi disciplinary courses are introduced as open elective courses to enable student capable of working in multi disciplinary scenario. Action3 : To strengthen individual and team work, more number of ILP courses can be introduced			
PO	Target	Attained	Observation
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	60	72.63	1..Target is reached 2.Contribution by seminar and mini project courses is not up to the mark.
Action1: Students will be encouraged to participate in various activities to enhance their skills. Action2 : The students will be directed to effectively use the communication skills lab.			
PO	Target	Attained	Observation
PO11: Demonstrate knowledge and	60	69.59	Target reached

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.			
Action1: Students will be encouraged to participate in various activities to further enhance their skills.			
Action2: An effort for Improvement in managerial skills is carried out by incorporating numerous Management course as open Elective courses.			
PO	Target	Attained	Observation
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.	60	70.44	Target reached
Action1: After consolidating the feedback collected from students as well as faculty members, syllabus of few foundation courses will be revised in new regulations to enable lifelong learning.			
PSO	Target	Attained	Observation
PSO1: Design and develop modern communication technologies for building the inter disciplinary skills to meet current and future needs of industry.	70	70.37	Target reached
Action1: Few core courses that contribute to this PO can be refined towards design and development of advanced communication techniques.			
PSO	Target	Attained	Observation
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	70	65.49	1.Target is not reached 2 CO attainment levels in EDC, EMI, DSD-VHDL, VLSI Design courses are not up to the mark.
Action1: Design and analysis by the above core courses can be further improved by revising the syllabus.			
Action2: The students are encouraged to attend number of value added courses in the relevant domain.			
Action3: Students will be encouraged to participate in co curricular activities that contribute to the PSO as student port folio contributed less.			
Action4: The attainment levels through contribution of placements and higher studies can be further improved by introducing courses that enhance the employability skills.			
Action5: In addition to existing regular courses, students are encouraged to participate in add on courses in specific domain.			
PSO	Target	Attained	Observation
PSO3: Apply the Signal processing techniques to synthesize and realize the issues related to real time applications.	70	70.51	Target reached
Action1: Students are encouraged to refer recent developments in signal processing domain by using available e resources.			
Action2: To further strengthen the PSO, more number of students are instructed to do mini and main projects in signal processing domain.			

Coordinator, RAC

Head of the Department