FINAL PO-PSO ATTAINMENT OF 2013 ADMITTED BATCH

		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Direct Attainment		66.34	78.29	65.43	66.48	68.48	67.86	61.07	66.83	64.22	70.72	66.18	66.11	67.80	66.48	67.59
Indirect Attainment	Student portfolio	82.71	84.92	81.64	78.03	80.66	85.57	85.90	74.43	75.33	82.95	72.46	81.64	81.48	85.90	75.25
	Exit Survey	42.09	41.27	49.94	73.18	76.41	74.81	76.21	76.21	70.76	78.64	64.70	76.82	77.12	63.66	85.45
	Employer survey	53.00	53.00	66.00	53.00	46.00	66.00	66.00	66.00	33.00	60.00	53.00	46.00	53.00	33.00	46.00
Total Attainment		64.22	72.72	65.56	66.96	68.24	70.14	65.56	68.45	62.87	71.67	65.34	66.72	68.62	64.79	67.98

(Row label on left side: **2013 ADMITTED**)
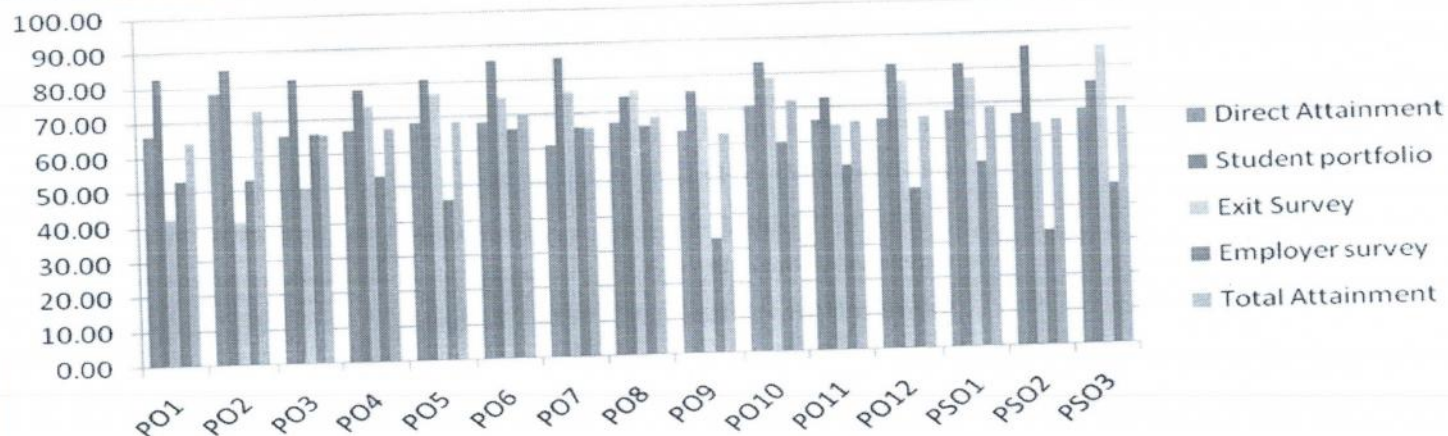
Actions taken based on the results of evaluation of each of the POs & PSOs

POs& PSOs Attainment Levels and Actions for improvement in the CAY(2017-18)

PO	Target	Attained	Observation
PO1:Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
2016-2017	70	64.27	• Target not reached
After analyzing results and interacting with students, it was attributed that still they need more practice on problem solving with the help of mathematical logic/knowledge.			
Action Taken			
1.Tutorials/ Assignments were given students.			
2.Conduct Redimal classes to give thorough practice in problem solving.			

PO	Target	Attained	Observation
PO2: Problem analysis: Identify, formulate, review research literature, and analyse complexengineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
2016-2017	70	72.82	• Target reached
After analysis of results and interacting with students it is attributed that they need more analytical capabilities in solving Operating Systems, Software Engineering Concepts, Computer Networks.			
1. Conduct Assignments / Tutorials / Remedial Classes for the course which was not attained.ie., Operating Systems, Computer Networks.			

PO	Target	Attained	Observation
PO3: Design/development of solutions: Design solutions for complex engineering problems anddesign 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.			
2016-2017	70	65.76	• Target not reached
It was also identified the need of additional care to strengthen the design capabilities of students, after analyzed results and interacted with students.			
Action Taken			
Conduct more number of classes/tutorials for the courses which are contributing design &development of solutions.			

PO	Target	Attained	Observation
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.			
2016-2017	60	66.64	• Target reached
After analysis of results, it is observed that students are doing laboratory experiments without enough preparation i.e., in terms of designing experiment, analyzing and interpretation of results.			
Action Taken			

- Conduct Hands-on Sessions/Demonstration classes to improve practical knowledge before executing the experiment.
- Conduct workshop on Problem Solving using C, Java and Data Structures.

PO	Target	Attained	Observation
PO5:Modern tool usage: 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.			
2016-2017	65	68.32	• Target reached

It is observed that few courses attained less.

Action Taken

Conduct Hands-on sessions for the usage of tools like cloudsim,netsim etc., to have a practical exposure on the theoritical concepts.
Keep more focus on using advanced tools in doing Mini Projects, Internships and Main Projects

PO	Target	Attained	Observation
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.			
2016-2017	60	70.13	• Target reached

After analyzing results and interacting with students, it is observed that students are still to be motivated.

Action Taken

Motivate the students by explaining the importance of doing internship and project work.

PO	Target	Attained	Observation
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.			
2016-2017	60	65.56	• Target reached

After interacting with students, it is found to be due to lack of awareness on environment and sustainable development.

Action Taken

Encourage the students to select environmental and socioeconomic related problems for their main project or mini-projects.

PO	Target	Attained	Observation
PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
2016-2017	65	67.30	• Target reached

After analysis of results and interacting with students, additional efforts required to improve knowledge on professional ethics and moral values.

Action Taken

conduct additional classes on professional ethics and norms of the engineering practice.

PO	Target	Attained	Observation
PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.			
2016-2017	65	62.86	• Target not reached

It was observed that few courses need improvement.

Action Taken

Awareness on leadership qualities was created by project assessment and evaluation committee.

Create awareness on teamwork by preparing the posters and paper presentation in various competitions(i.e. LAKSHYA-13 conducted by LBRCE)

PO	Target	Attained	Observation
PO10: 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.			
2016-2017	65	71.83	• Target reached

After interacting with students, it was identified that additional focus required on development of communication skills.

Action Taken

Conduct training sessions on Communication and Soft Skills.

Involve the students in Student Association activities.

PO	Target	Attained	Observation
PO11: Project management and finance: Demonstrate knowledge and understanding of theengineering 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.			
2016-2017	60	64.72	• Target reached

It was observed that still few courses required improvement.

After interacting with students, it was identified that additional focus required on development of communication skills.

Action Taken

More Focus on motivating the students by explaining the importance of doing internship and project work.

Create awareness on project management by project assessment and evaluation committee.

Conduct workshop on Problem solving using C, Java and Data Structures. It also helps in improve the programming skills.

PO	Target	Attained	Observation
PO12: 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.			
2016-2017	65	66.72	• Target reached

It was observed that still few courses required improvement.

Action Taken

Encourage students to participate in workshops/seminars/ symposia

Provide library hours.

Conduct association activities.

Conduct self learning courses.

PSO	Target	Attained	Observation
PSO1: Programming Paradigms: To inculcate algorithmic thinking, formulation techniques and visualization, leading to problem solving			

skills using different programming paradigms.

2016-2017	70	68.62	• Target not reached

It was observed that still few courses required improvement.

Action Taken

Conduct more number of classes /tutorials to strengthen the courses.

Conduct workshop on Problem Solving and Data Structures to improve Programming Skills& Logical Thinking Ability.

PSO	Target	Attained	Observation
PSO2: Data Engineering: To inculcate an ability to Analyse, Design and implement data driven applications into the students.			
2016-2017	70	64.79	• Target not reached

It was observed that still few courses required improvement.

Action Taken

Conduct workshop on Problem Solving and Data Structures.

conduct workshop on Problem solving using C, Java and Data Structures. It also helps in improve the programming skills Programming Skills & Logical Thinking Ability.

PSO	Target	Attained	Observation
PSO3: Software Engineering: Develop an ability to implement various processes / methodologies /practices employed in design, validation, testing and maintenance of software products.			
2016-2017	70	67.98	• Target not reached

It was observed that still few courses required improvement.

Action Taken

Conduct more number of classes /tutorials to strengthen the courses.

Conduct workshop on Problem Solving and improve Programming Skills & Logical Thinking Ability.

Program coordinator