LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)



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DEPARTMENT OF INFORMATION TECHNOLOGY

Date:09-07-2018

7.1. Actions taken based on the results of evaluation of each of the COs, POs & PSOs POs Attainment Levels and Actions for improvement (2017-2018) 14 batch

_	_		the knowledge of mathematics, science, engineering ecialization to the solution of complex engineering 1. Target was almost reached.
		meering spe	
			1 Target was almost reached
PO 1 70)%	72%	 PO1 still needs improvement. 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.
- 2. Extraclasses were conducted to give thorough practice in problem solving.

POs	Target Level	Attainment Level	Observations
PO-2.		•	formulate, review research literature, and analyze
complex engineering problems reaching			ng substantiated conclusions using first principles of
mathema	tics, natural s	ciences, and engi	neering sciences.
PO 2	65%	72%	 Target was reached. It was observed that fewmore courses need improvement. After analysis of results and interacting with students it is attributed that they need more analytical capabilities in Software Project management, Data Base Management Systems and Compiler design courses. Network Security Issues & Software Engineering Concepts.

Action Taken:

- 1. Assignments / Tutorials / Remedial Classes were conducted for the course which was not attained.ie., Software engineering.
- 2. Additional classes were conducted on Compiler Design.

POs	Target	Attainment	Observations
	Level	Level	

PO-3. 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.

			1. Target was reached.
			2. It was observed that few courses need
			improvement.
PO 3	65%	73%	3. 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:

1. More number of classes/tutorials were conducted for the courses which are contributing design &development of solutions.

POs	Target Level	Attainment Level	Observations
		_	implex problems: Use research-based knowledge and experiments, analysis and interpretation of data, and
synthesis of the information to provide v			valid conclusions.
PO 4	65%	68%	 Target was exactly reached but needs improvement. 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:

- 1. To improve practical knowledge, Hands-on Sessions/Demonstration classes were conducted before executing the experiment.
- 2. Conducted workshop on Problem Solving and Data Structures.

POs	Target Level	Attainment Level	Observations
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PO-5. 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.

PO 5	65%	68%	 Target was reached. It is observed that few courses attained PO5 level less than target. After analysis of results and interacting with students it is attributed to lack of design capabilities.
A ation To	lrom.		

Action Taken:

1. Tutorials were conducted for the courses which contributed less.

POs	Target Level	Attainment Level	Observations
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PO-6. 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.

PO 6	60%	74%	 Target was reached. After analyzing results and interacting with students, it is observed that students are still to be motivated.
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Action Taken:

- 1. Motivated the students by explaining the importance of doing internship and project work.
- 2. Focus is given to motivate the students by explaining the importance of doing internship and project work.
- 3. More inputs are given for doing experiments in labs and delivering seminars.
- 4. By Conducting National level Technical fest LAKSHYA2K17 leadership qualities and team management can be developed.

POs	Target Level	Attainment Level	Observations	
PO-7.			bility: Understand the impact of the professional and environmental contexts, and demonstrate the	
	C		·	
knowledg	ge of, and nee	d for sustainable	development.	
PO 7	60%	72%	 Target was reached. It was observed that still few courses required improvement. After interacting with students, it is found to be due to lack of awareness on environment and sustainable development. 	
Action Taken: 1. Conducted a Lecture on "Environment and sustainability" by senior faculty.				

1. Conducted a Lecture on "Environment and sustainability" by senior faculty.

POs	Target	Attainment	Observations		
	Level	Level	Obscivations		
PO-8.	Ethics: A ₁	pply ethical pri	inciples and commit to professional ethics and		
responsibilities and norms of the engineering practice.					
			Target was reached		
			2. After analysis of results and interacting with		
PO 8 60%	60%	% 72%	students, additional efforts required to improve		
			knowledge on professional ethics and moral		
			values.		
A ation To	Antion Tolon.				

Action Taken:

1. Additional classes on professional ethics and norms of the engineering practice were conducted

POs	Target Level	Attainment Level	Observations		
PO-9. Individual and team work: Function effectively as an individual, and as a membe					
leader in diverse teams, and in multidisciplinary settings.					
			1. Target was reached.		
PO 9	60%	67%	2. It was observed that few courses need		
			improvement.		
Action Ta	Action Taken:				

- 1. Awareness on leadership qualities was created by project assessment and evaluation committee.
- 2. Create awareness on teamwork by preparing the posters.

POs	Target Level	Attainment Level	Observations
PO-10 C	Communication	on: Communicate	effectively on complex engineering activities with

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 effe	write effective reports and design documentation, make effective presentations, and give and									
receive cl	ear instructio	ns.								
PO 10	60%	69%	 Target was reached After interacting with students, it was identified that additional focus required on development of communication skills. 							

Action Taken:

- 1.CSS Communication and Soft Skills classes were conducted.
- 2.Student Association activities were carried out.

POs	Target	Attainment	Observations						
103	Level	Level	Ouser various						
PO-11. P	roject manag	ement and financ	e: Demonstrate knowledge and understanding of the						
engineeri	ng and mana	gement principle	s and apply these to one's own work, as a member						
and leade	r in a team, to	o manage projects	s and in multidisciplinary environments.						
	60%	69%	Target was reached						
			2. It was observed that still few courses required						
PO 11			improvement.						
			3. After interacting with students, it was identified						
			that additional focus required on development of						
			communication skills.						
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Action Taken:

- 1. Focus is given to motivate the students by explaining the importance of doing internship and project work.
- 2. Create awareness on project management by project assessment and evaluation committee.
- 3. Conducted workshop on BrainTech Championship 2018, Big Data & Hadoop Workshop improve the programming skills.

POs	Target Level	Attainment Level	Observations							
	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 chan										
			1. Target was reached							
PO 12	60%	67%	2. It was observed that still few courses required							
			improvement.							
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Action Taken:

- 1. Encouraged students to participate in workshops/seminars/ symposia
- 2. Provided library hours.
- 3. Conducting association activities.
- 4. Conducting self-learning courses.
- 5. Conducted workshop on Python Workshop
- 6. Conducted workshop on Web Trends

PSOs	Target Level	Attainment Level	Observations				
PSO1: O	rganize, Anal	lyze and interpret	the data to extract meaningful conclusions.				
PSO 1	1. Target was reached 2. It was observed that still few courses required improvement.						
Action Ta		aloggos /tutoriolg y	vers conducted to strangthen the courses				

1. More number of classes /tutorials were conducted to strengthen the courses.

- 2. Conducted workshop on BrainTech Championship 2018, Big Data & Hadoop Workshop improve the programming skills.
- 3. Conducted workshop on Web Trends.

PSOs	Target Level	Attainment Level	Observations							
PSO2: D	PSO2: Design, Implement and Evaluate a computer-based system to meet desired needs.									
PSO 2 65% 68% 1. Target was reached 2. It was observed that still few courses required improvement.										

Action Taken:

- . Conducted workshop on BrainTech Championship 2018, Big Data & Hadoop Workshop improve the programming skills.
- 2. Conducted workshop on Web Trends to improve the development skills.

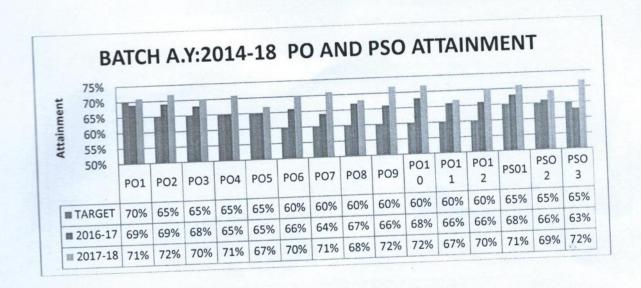
PSOs	Target Level	Attainment Level	Observations							
PSO3: Develop IT application services with the help of different current engineering tools.										
PSO 3	65%	63%	 Target was reached It was observed that still few courses required improvement. 							

Action Taken:

- 1. More number of classes /tutorials were conducted to strengthen the courses.
- 2. Conducted workshop on Web Trends to improve the development &programming skills.

PO's and PSO's Attainment Levels:

	POs										PSOs				
Assessment Tool	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
Direct Attainment	74.92	75.5	74.24	75.47	71.24	73.3	74.9	72.5	76.91	75.1	69.9	75.2	75.6	73.85	75
Program Exit Survey	83.54	81.7	83.54	83.54	72.32	87.9	87.9	82.9	82.91	84.2	84.2	75.4	80.4	81.04	84
Employer Survey	76	76	72	72	76	72	76	76	80	84	76	76	76	72	80
Portfolio Component	23.5	23.5	23.5	23.5	23.5	23.5	17.9	15.3	17.35	23.5	23.5	23.5	23.5	23.5	24
% Attainment	70.7	71	69.9	70.7	67	70	71	68	72	72	67	70	71	69.35	71



Observations and Action taken report: It is observed that the skills of graduates of 2014 batch were improved compared to 2013 batch.