

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

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DEPARTMENT OF INFORMATION TECHNOLOGY

POs & PSOs Attainment Levels and Actions for improvement: Admitted Batch 2016-20

A.Y:2019-20

POs	Target (%)	Attained (%)	Observations			
PO-1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering						
specialization to the solution of complex engineering problems.						
PO 1	70	64	Target not reached			
Action Tal	ken:					
Action 1: 0	Conducted one day	Orientation Programme	on "Importance of engineering in the Society" on 28th June 2018 to improve			
_	_	and role of engineers	· · · · · · · · · · · · · · · · · · ·			
	•	<u> </u>	cted to give more assignments for the students.			
	The faculties of the	•	e advised to conduct more demonstration classes.			
POs	Target (%)	Attained (%)	Observations			
			w research literature, and analyze complex engineering problems reaching			
substantiat	ed conclusions using	ng first principles of mat	thematics, natural sciences, and engineering sciences.			
PO 2	65 65		Target reached			
	Action Taken:					
Action 1: Conducted Seminar on Visualization of Data Structures on 21 st March 2016.						
Action 2: For the theory courses the faculty are instructed to give more assignments for the students.						
Action 3: The faculty of the laboratory courses was advised to conduct more demonstration classes.						
POs	Target (%)	Attained (%)	Observations			
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.						
PO 3	65	64	Target not reached			

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

Action 2: Conducted a Workshop on "Ethical Hacking & Cyber Security" on 30th and 31st Oct 2015 to improve the research methods including design of experiments.

POs	Target (%)	Attained (%)	Observations
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PO-4. 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.

PO 4 65 65 Target reached

Action Take:

Action 1: To improve practical knowledge, Hands-on Sessions/Demonstration classes were conducted before executing the experiment.

Action 2: Conducted workshop on Python Programming 7th to 8th Dec 2017 to improve student's problem solving skills and programming knowledge.

POs	Target (%)	Attained (%)	Observations			
PO-5. M	PO-5. 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.						
PO 5	65	61	Target not reached			

Action Taken:

Action 1: Tutorials were conducted for the courses which contributed less. In addition to that tutorial hours are handled by two facultymembers.

Action 2: Conducted workshop on "5G Technologies" 7th Sep 2018 to improve the modern tool usage.

Action 3: Conducted Guest Lecture on "Influence Of Technology In Financial Industry" 4th Sep 2018 to improve the practical knowledge on society demand.

POs	Target (%)	Attained (%)	Observations			
PO-6. Th	PO-6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal					
and cultura	and cultural issues and the consequent responsibilities relevant to the professional engineering practice.					
PO 6	60	64	Target reached			

Action Taken:

Action 1: Motivated the students by explaining the importance of doing internship and project work.

Action 2: The faculty are instructed to give practical examples relevant to engineering practices to enhance skills to handle problems in the societal context.

Action 3: The faculty are advised to allot a few topics for seminar related to society and the course content to present in the class room.

POs Target (%) Attained (%)	Observations
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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.

	T					
PO 7	60	61	Target reached			
	Action Taken:					
	Action 1: The faculty are instructed to teach and give practical approach of the topics in view of long term goals like environment					
and sustain	•	1 0				
			dents in the Environmental club activities.			
			s on environmental oriented projects.			
POs	Target (%)	Attained (%)	Observations			
	hics: Apply ethical	principles and commit	to professional ethics and responsibilities and norms of the engineering			
practice.						
PO 8	60	64	Target reached			
Action Ta						
			about the importance of ethics in the engineering profession.			
			y problems to debate on ethical decision and judgments.			
	•	to instruct students to	follow ethical values while doing the programs, writing records and paper			
publication		. 1	1' 1.C 21.4th A. 2020 . 1 Fill 1 1			
			pline and Career" 14 th May 2020 to learn Ethical values.			
POs	Target (%)	Attained (%)	Observations			
		n work: Function effec	tively as an individual, and as a member or leader in diverse teams, and in			
	olinary settings.					
PO 9	60	65	Target reached			
Action Ta						
			ated by project assessment and evaluation committee.			
Action 2: Create awareness on teamwork by preparing the posters.						
Action 3: Focus is given to motivate the students by conducting ICCIDE conference with in the Institution. So most of the students						
actively involved individually as well as team to make the event success.						
Action 4: Conducted association activities to improve the teamwork/leadership qualities and communication skills.						
Action 5: Organized National Level Technical Symposium "Lakshya 2K19" to improve the leadership qualities as well as						
	of the students.					
POs	Target (%)	Attained (%)	Observations			
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.						
PO 10	60	66	Target reached			
	Action Taken:					
Action 1: Group discussion / Role play/ Debate/ Quiz/Essay Writing competitions are encouraged at regular intervals.						

apart from regular classes as per schedule.						
Action 3: Conducted association activities to improve the teamwork/leadership qualities and communication skills. Action4: Conducted National Level Online Technical Online Quiz Competition 3 rd June 2020.						
POs						
	<u> </u>	\ /	nonstrate knowledge and understanding of the engineering and management			
principles	principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.					
PO 11	60	61	Target reached			
Action Tal	ken:	<u> </u>	<u>'</u>			
Action 1:	Focus is given to 1	motivate the students b	y explaining the importance of doing internship and project work.			
Action 2:	Create awareness	on project managemen	t by project assessment and evaluation committee.			
			ove the teamwork/leadership qualities and communication skills.			
			luence Of Technology In Financial Industry" on 04-09-18 to enhance the			
_	1 0	dustry financial related	•			
Action 5: Introduced plagiarism checking (40%) for Main Project to maintain the quality of project.						
	ma saacea piagiai	isin cheeking (4070) ic	or Main Project to maintain the quality of project.			
POs	Target (%)	Attained (%)	Observations			
POs PO-12. Li	Target (%) fe-long learning:	Attained (%)	Observations or, and have the preparation and ability to engage in independent and life-long			
POs PO-12. Li	Target (%) fe-long learning:	Attained (%) Recognize the need for	Observations or, and have the preparation and ability to engage in independent and life-long			
POs PO-12. Li learning in PO 12	Target (%) fe-long learning: the broadest cont	Attained (%) Recognize the need for ext of technological ch	Observations or, and have the preparation and ability to engage in independent and life-long lange.			
POs PO-12. Li learning in PO 12 Action Ta	Target (%) fe-long learning: the broadest cont 60 ken:	Attained (%) Recognize the need for ext of technological ch	Observations or, and have the preparation and ability to engage in independent and life-long lange. • Target reached			
POs PO-12. Li learning in PO 12 Action Ta Action 1:	Target (%) fe-long learning: the broadest cont 60 ken: Additional classes	Attained (%) Recognize the need for ext of technological change of the conducted to interpret to be conducted to be conduc	Observations or, and have the preparation and ability to engage in independent and life-long lange. • Target reached roduce Turing Machine and Push down automata concepts.			
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POs PO-12. Li learning in PO 12 Action Ta Action 1: Action 2: the student Action 3: PSOs	Target (%) fe-long learning: the broadest cont 60 ken: Additional classes Conducted two dats. Conducted Alumn Target (%)	Attained (%) Recognize the need for ext of technological changes to be conducted to introduce to the conducted to introduce to the conducted to introduce the conducted	Observations or, and have the preparation and ability to engage in independent and life-long lange. • Target reached roduce Turing Machine and Push down automata concepts. marketing on 30 th Aug and 31 st Aug 2018 to enhance the employability skills of cements on 06-05-2020 to create awareness on software Industry.			
POs PO-12. Li learning in PO 12 Action Ta Action 1: Action 2: the student Action 3: PSOs	Target (%) fe-long learning: the broadest cont 60 ken: Additional classes Conducted two dats. Conducted Alumn Target (%)	Attained (%) Recognize the need for ext of technological changes to be conducted to introduce to the conducted to introduce to the conducted to introduce the conducted	Observations or, and have the preparation and ability to engage in independent and life-long lange. • Target reached roduce Turing Machine and Push down automata concepts. marketing on 30 th Aug and 31 st Aug 2018 to enhance the employability skills of cements on 06-05-2020 to create awareness on software Industry. Observations			

Action Taken:

Action 1: The faculty handling the courses who failed to attain the target are instructed to give more assignments for the students. In addition to that tutorial hours are handled by two facultymembers.

Action 2: The faculty of the laboratory courses who failed to attain the target are advised to conduct more demonstration classes before attending laboratory.

Action 3: Organized one day guest lecture on "Influence Of Technology In Financial Industry" on 4th Sep 2018 to create awareness on industrial requirements.

PSOs	Target (%)	Attained (%)	Observations		
PSO2: Design, Implement and Evaluate a computer-based system to meet desired needs.					
PSO 2	65	64	Target not reached		

Action Taken:

Action 1: More examples on Probability and Statistics practiced by students in additional classes(S351)

Action 2: The faculty of the laboratory courses who failed to attain the target are instructed to demonstrate experiments using video lectures in order to motivate students.(L166and L130)

Action 3: Organized Two day Workshop on Python Programming, APSSDC, 7th to 9th Dec 2017.

PSOs	Target (%)	Attained (%)	Observations			
PSO3:	PSO3: Develop IT application services with the help of different current engineering tools.					
PSO 3	65	63	Target not reached			

Action Taken:

Action 1: The faculty of theory courses whose target has not reached are instructed to conduct more tutorials to improve the student performance.

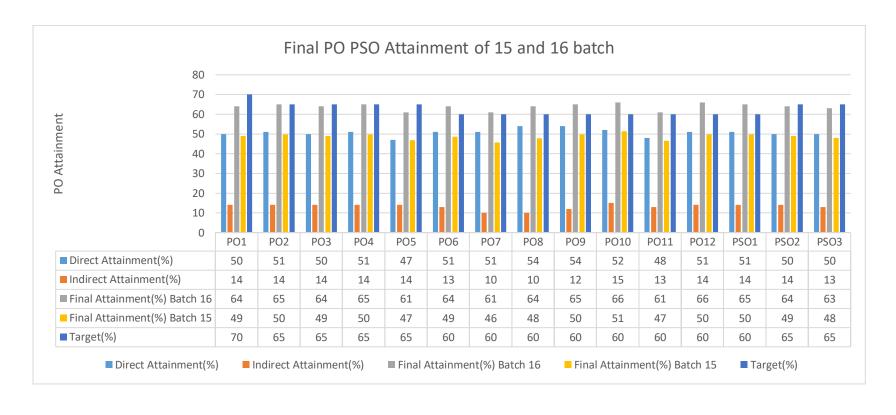
Action2: To strengthen the L120, workshop is Conducted on Web Trends ON 13th Dec 2017. So that students can improve the development & programming skills.

Action 3: The faculty are advised to conduct Bridge course for the students who are lagging in basics of S157, S382 and S163.

Action 4: Conducted workshop on Blogging and Ethical hacking on 2nd and 3rd August 2014.

Table B.7.1POs & PSOs Attainment Levels and Actions for improvement

Observations and Action Taken Report:



It is observed that the skills of admitted graduates of 2016-20 batch were improved in the following PO's i.e PO1, PO2, PO3, PO4,PO5,PO6,PO7,PO8,PO9,PO10,PSO11,PO12,PSO1,PSO2 and PSO3 when compared to 2015-19 batch.

Signature of HOD (Dr.B.Srinivasa Rao)