

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(Autonomous)

Approved by AICTE, New Delhi and Permanently Affiliated to JNTUK, Kakinada Accredited by NAAC and NBA (CSE, IT, ECE, EEE & ME) under Tier - I





Comparion of 2015, 2016, 2017 and 2018 Batch PO's and PSO'S	2015. 2	016,201	7 and 20	118 Bat (ch PO's	and P.	SO.S						
	PO1	P02	P03	PO4 PO5 PO6	P05	90d	P07	P08	P09	PO10	PO9 PO10 PO11 PO12	P012	PS01
15 Batch PO's	71.95		1	73.55	72.8	72.46	75.54	73.71	75.77	76.76	67.56	73.61	71.69
16 Batch PO's	77.77	70.63	70.95	72.42	72.18	77.01	72.42 72.18 77.01 71.09	68.11 71.34 72.62 78.29 73.3	71.34	72.62	78.29	73.3	70.39
17 Batch PO's	71	77	72	72	71	75	71	70	71	74	70	72	71
18 Batch PO's	74	74	74		74	75	89	70	71	9/	71	75	74

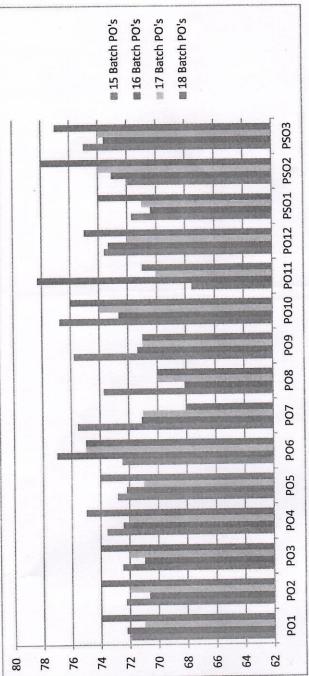
73.59

4 1

PSO3 74.99

71.95 73.06 74 78

Comparison of 2015, 2016, 2017 and 2018 Batch PO's and PSO's



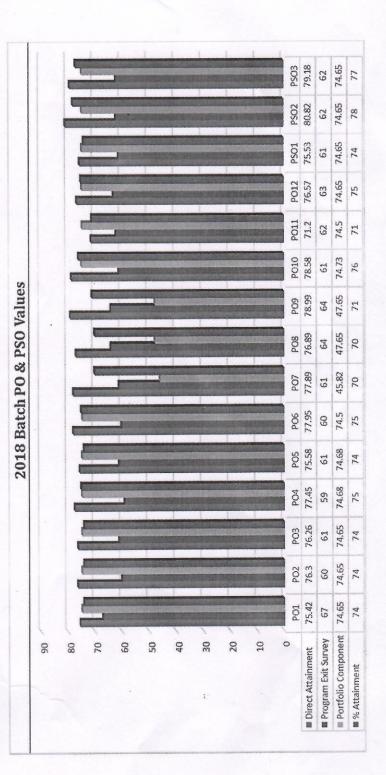




hodcse@lbrce.ac.in, cselbreddy@gmail.com, Phone: 08659-222933, Fax: 08659-222931 Accredited by NAAC with 'A' Grade & NBA (Under Tier - I), ISO 9001:2015 Certified LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS) Institution, Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada L.B.REDDY NAGAR, MYLAVARAM, KRISHNA DIST., A.P.-521 230. DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Final Attainment of 2018 Admitted Batch (Direct & Indirect)

	P01	P02	10000	PO3 PO4 PO5	P05	90d	P07	P08	P09	PO10	P011	P012	PS01	PS02	PSO3
Direct Attainment	75.42	76.3	76.26 77.45 75.58	77.45	75.58	77.95	77.89	76.89	78.99	78.58	71.2	76.57	75.53	80.82	79.18
Program Exit Survey	19	09	61	59	61	09	61	64	64	61	62	63	61	62	62
Portfolio Component 74.65 74.65 74.65 74.68 74.68	74.65	74.65	74.65	74.68	74.68	74.5	45.82	47.65	47.65	74.73	74.5	74.65	74.65	74.65	74.65
% Attainment	74	74	74	75	74	75	70	7.0	71	9/	7.1	75	74	78	77





POs& PSOs Attainment Levels and Actions for improvement - AY 21-22(18-Batch)

PO	Target (%)	Attained (%)	Observation
			vledge of mathematics, science, engineering
	20000		olution of complex engineering problems.
PO1	68	74	Target reached
			ing various workshop on "Microsoft Certification
Programs and	AWS Cloud Practi	tioner Certification"	
			s workshops and hands-on session in emerging
		nced Python Programm	
Action3: To i	nstil coding skills a		partment introduced Code Cracker Club.
PO	Target (%)	Attained (%)	Observation
	ching substantiated		search literature, and analyse complex engineering t principles of mathematics, natural sciences, and
PO2	73	74	Target reached
200, 3004, 3404	DAVES		students, new courses are included like Industrial
			s per the suggestions from BOS members and
		itemigent iviacining a	s per the suggestions from BOS memoers and
industry repre			
		uest lectures by renow	ned academicians to strengthen problem solving
skills for the s			
•		The state of the s	perform experiments beyond the syllabus in the
	lesigned by IIT-Bo		
PO	Target (%)	Attained (%)	Observation
			ons for complex engineering problems and design
system comp	onents or processe	s that meet the specif	ied needs with appropriate consideration for the
			nvironmental considerations.
PO3	69	74	Target reached
"Design Thin	king, Predictive A	to further strengthen tanalytics, Gaming using	this PO, various new courses will be included viz. g Python, Wireless Adhoc and Sensor Network
Open-Source			
Action2: Our	faculty members a	re trained in E-Box tool	l in problem solving through programming.
			by IIT-Bombay environment, to our students to
_	evelop new simula	tors for academic purp	pose that will enhance the students programming
skills.	TD (0/)	1 (0/)	01
PO	Target (%)	Attained (%)	Observation
PO4: Condu	ct investigations	of complex problem	s: Use research-based knowledge and research
			and interpretation of data, and synthesis of the
	provide valid con	No. Aller	T 1 1
PO4	71	75	Target reached
			course advanced skill-oriented courses conducted
	oursera etc and get		1. HT David and to say students to
Action2: The	department will i	ncorporate Virtual-Lab	by IIT-Bombay environment, to our students to
	evelop new simula	tors for academic purp	pose that will enhance the students programming
skills.	T =	11. 1.00	
PO	Target (%)	Attained (%)	Observation
PO5: Moder	n tool usage: Cre	eate, select, and apply	appropriate techniques, resources, and modern delling to complex engineering activities with an
	g of the limitations.		defining to complex engineering detrivines with an
PO5	71	74	Target reached
			course like Web design using Django / Flask,
			y and publish papers and poster presentation on
			nized events accordingly, under the banner of
	A STATE OF THE PARTY OF THE PAR	s (ACG)", a student ass	
the section of the se	ar communer treeks	incui, a student ass	ociation of CDL.

			to our students to
	1tmoont will	incorporate Virtual-La	ab by IIT-Bombay environment, to our students to
Action2: The	department will	ators for academic pu	ab by IIT-Bombay environment, to our students to arpose that will enhance the students programming
lesign and de	velop new simula	itors for academic par	
kills.	- June ve		ograms like Cisco, Microsoft, Amazon AWS. Observation
Action3: Plan	ning to conduct va	arious certification p-	Observation
20	Target (%)	Attained (70)	to assess
PO6: The er	gineer and soci	ety: Apply reasoning	and the consequent responsibilities relevant to the
societal, healt	th, safety, legal a	alla Cultural Ibbaes,	and the consequent responsibilities relevant to the
professional e	ngineering practic	:e	Toward manahad
PO6	73	75	i Di sinter of Technology and Innovation
Action1: Co	urses like Funda	mentals of Entrepren	include to strengthening this PO. More practice is
Management.	and Professional	Communication with	1 1 anta in the future
required in Pr	ofessional Comm	unication that improve	es the placements in the future. ious workshop in related with Human Values, and
Action2: De	partment is plann	ling to conduct a var	1045 (1022-2-1
Professional	Communication.	· · · · · · · · · · · · · · · · · · ·	z professional communication skills, management
Action3: Tv	o-courses are g	oing to introduce vi	sion making skills of the students. Observation
science for en	ngineers are introd	duced to improve deem	Observation
PO	Target (%)	Attained (70)	1.11 impact of the professional engineering solutions
PO7: Enviro	onment and susta	ainability: Understand	d the impact of the professional engineering solutions instrate the knowledge of, and need for sustainable
in societal a	nd environmenta	I contexts, and demo	months are market
development			Torget not reached
PO7	71	68	more focus on Environmental Science by giving sering solutions in this context.
Action1: D	rected the conce	erned faculty to put	paring solutions in this context.
assignments	which may lead s	students to find Engine	ests in which global and environmental issues are
Action2: Stu	idents are encoura	aged to induige in proj	1 Hilipation of renewable energy resources.
improved, w	ith respect to con	sumption of energy and	at the stand of the stand of the stand of the stand
			mietry and Ecology is also illitoduced to different
Actions: A	ANTITIE		Mid-j
the importar	new course entition in the course of balance in t	the ecology and sustain	nability.
the importar	new course entition in the course of balance in t	the ecology and sustain	nability.
PO: Ethic	new course entition to the control of balance in the Target (%) as: Apply ethical parts	the ecology and sustain	nability.
PO PO8: Ethic	new course entitle nce of balance in the Target (%) es: Apply ethical pareering practice.	Attained (%) principles and commit	Observation t to professional ethics and responsibilities and norm
PO PO8: Ethic	new course entitle nce of balance in the Target (%) es: Apply ethical pareering practice.	Attained (%) principles and commit	Observation t to professional ethics and responsibilities and norm
POS: Ethic of the engine	rew course entitle nee of balance in the Target (%) es: Apply ethical parentice.	Attained (%) principles and commit	Observation t to professional ethics and responsibilities and norm Target reached code reviews will be conducted, plagiarism chec
POS: Ethic of the engine POS Action1: Positive done	rojects/ mini proj	he ecology and sustain Attained (%) principles and commit 70 ects will be scrutinize originality of the proj	Observation t to professional ethics and responsibilities and norm Target reached ed, code reviews will be conducted, plagiarism checket to ensure professional ethics.
PO8: Ethic of the engine PO8 Action1: P will be don	rojects/ mini projects/mini pr	he ecology and sustain Attained (%) principles and commit 70 lects will be scrutinized to originality of the projection of the project	Observation t to professional ethics and responsibilities and norm Target reached ed, code reviews will be conducted, plagiarism checiect to ensure professional ethics. on professional ethics and laws. Powers and laws.
PO8: Ethic of the engine PO8 Action1: P will be don	rojects/ mini projects/mini pr	he ecology and sustain Attained (%) principles and commit 70 lects will be scrutinized to originality of the projection of the project	Observation t to professional ethics and responsibilities and norm Target reached ed, code reviews will be conducted, plagiarism checked to ensure professional ethics. on professional ethics and laws. Powers and laws.
PO8: Ethic of the engine PO8 Action1: P will be don Action2: D Action3: I Analytics.	rojects/ mini projecto determine the department is conducted by the conduc	he ecology and sustain Attained (%) principles and commit 70 lects will be scrutinized to originality of the project of th	Observation t to professional ethics and responsibilities and norm Target reached ed, code reviews will be conducted, plagiarism checiect to ensure professional ethics. on professional ethics and laws. Powers and laws.
PO8: Ethic of the engine PO8 Action1: P will be don Action2: D Action3: I Analytics, be included	rojects/ mini projecto determine the epartment is cond Department will the first values for the curriculum.	he ecology and sustain Attained (%) principles and commit 70 ects will be scrutinized originality of the project of further street and resure to further street and results are results and results and results and results and results and re	Observation t to professional ethics and responsibilities and norm • Target reached ed, code reviews will be conducted, plagiarism check to ensure professional ethics. on professional ethics and laws. engthen this PO, new course NASSCOM Associated the conducted of the cond
PO8: Ethic of the engine PO8 Action1: P will be don Action2: D Action3: I Analytics, be included	rojects/ mini projecto determine the epartment is cond Department will the first values for the curriculum.	he ecology and sustain Attained (%) principles and commit 70 ects will be scrutinized originality of the project of further street and resure to further street and results are results and results and results and results and results and re	Observation t to professional ethics and responsibilities and norm • Target reached ed, code reviews will be conducted, plagiarism check to ensure professional ethics. on professional ethics and laws. engthen this PO, new course NASSCOM Associated the property Rights, Innovation and Technology with the property Rights, Innovation and Technology with the property Rights.
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rose importante post in the importante post in the engine post in the	rojects/ mini projects/ mini project	he ecology and sustain Attained (%) principles and commit 70 ects will be scrutinized originality of the projucting expert lecture of the ensure to further street Business and Intellem Attained (%) work: Function effectisciplinary settings. 71 idual performance amore introduced along were	Observation t to professional ethics and responsibilities and norm • Target reached ed, code reviews will be conducted, plagiarism chece et to ensure professional ethics. on professional ethics and laws. engthen this PO, new course NASSCOM Associate ctual Property Rights, Innovation and Technology with Observation etively as an individual, and as a member or leader • Target reached ong students, department will be including courses light NPTEL.
POS: Ethic of the engine POS Action1: Position	rojects/ mini projects/ partment will/ Ethical Values for in the curriculum/ Target (%) vidual and team/ms, and in multid/ 69 To enhance Individual projects/ pertaining experts and to distance in the curriculum/ solution in the curriculum/ projects/ pertaining experts and to distance in the curriculum/ in the curricu	Attained (%) rects will be scrutinized originality of the project of further street and intellect originality of the project of further street and intellect originality of the project of further street and intellect originality of the project of further street and intellect originality of the project of further street and intellect originality of the project originality originalit	Observation to professional ethics and responsibilities and norm • Target reached ed, code reviews will be conducted, plagiarism checket to ensure professional ethics. on professional ethics and laws. engthen this PO, new course NASSCOM Associated the conducted property Rights, Innovation and Technology with the course of the cours
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rose industrial projects. Action1: 7 Action3: I Analytics, be included adverse tear possible action2: industrial projects. Action3: hackathom	rojects/ mini projects/ mini multides/ minimultides/ minimult	Attained (%) avork: Function effective introduced along wing to the latest probatiles introduced along wing to the latest probatiles of the work with the encouraged to parties to the latest, etc. Attained (%)	Observation t to professional ethics and responsibilities and norm • Target reached ed, code reviews will be conducted, plagiarism check feet to ensure professional ethics. On professional ethics and laws. Target reached engthen this PO, new course NASSCOM Associated the property Rights, Innovation and Technology with the law of the property Rights, Innovation and Technology with the law engineering activities with the
PO9: Indidiverse tea PO9 Action1: To Action2: Do Action3: Indiverse tea PO9 Action1: To Skill devel Action2: industrial projects. Action3: hackathon PO PO10: O	rojects/ mini projects/ project	Attained (%) ects will be scrutinized ensure to further street Business and Intelled Attained (%) Attained (%) ects will be scrutinized ensure to further street Business and Intelled Attained (%) work: Function effect isciplinary settings. 71 Idual performance amount of the latest probestribute the work with the encouraged to particests, etc. Attained (%) Communicate effect	Observation t to professional ethics and responsibilities and norm • Target reached ed, code reviews will be conducted, plagiarism check feet to ensure professional ethics. In professional ethics and laws. engthen this PO, new course NASSCOM Associate ctual Property Rights, Innovation and Technology with Observation etively as an individual, and as a member or leader ong students, department will be including courses like the new analysed with frequent interactions from the team towards its execution of through academ rticipate in teams in various technical events such Observation etively on complex engineering activities with
PO9: Indidiverse tea PO9 Action1: To Action2: Do Action3: Indiverse tea PO9 Action1: To Skill devel Action2: industrial projects. Action3: hackathon PO PO10: O	rojects/ mini projects/ project	Attained (%) ects will be scrutinized ensure to further street Business and Intelled Attained (%) Attained (%) ects will be scrutinized ensure to further street Business and Intelled Attained (%) work: Function effect isciplinary settings. 71 Idual performance amount of the latest probestribute the work with the encouraged to particests, etc. Attained (%) Communicate effect	Observation t to professional ethics and responsibilities and norm • Target reached ed, code reviews will be conducted, plagiarism check feet to ensure professional ethics. In professional ethics and laws. engthen this PO, new course NASSCOM Associate ctual Property Rights, Innovation and Technology with Observation etively as an individual, and as a member or leader ong students, department will be including courses like the new analysed with frequent interactions from the team towards its execution of through academ rticipate in teams in various technical events such Observation etively on complex engineering activities with
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POS: Ethic of the engine POS Action1: P will be don Action2: D Action3: I Analytics, be included PO PO9: Indidiverse teat PO9 Action1: Skill devel Action2: industrial projects. Action3: hackathon PO PO10: C engineering reports and properts are poorts are properts are poorts	rojects/ mini projects/ mini multid/ minimal mini	Attained (%) ects will be scrutinized originality of the projection of the projecti	Observation t to professional ethics and responsibilities and norm • Target reached ed, code reviews will be conducted, plagiarism check feet to ensure professional ethics. On professional ethics and laws. Target reached engthen this PO, new course NASSCOM Associated the property Rights, Innovation and Technology with the law of the property Rights and as a member or leader • Target reached eng students, department will be including courses like the property Rights and the property Rights are the property Rights and the property Rights are the property Rights and the property Rights and the property Rights are the property Rights and the prop

Communication and soft skills courses engineering students are encouraged to use english language more effectively in writing reports, notes and summaries. Action2: Involvement of students by conducting the activities through Association of Computer Geeks (ACG). Action3: Encourage students to participate in the Intercollegiate competitions, publishing technical articles. PO Observation Target (%) Attained (%) PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering 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. PO11 Target reached Action1: For improving Project Management skills among students, the courses like Management Science for Engineers, Finance for Non-Finance Executives will be included based on the feedback from industry and academia. Action2: The awareness is created among the student regarding the management principles and managing projects. The relevant courses are revised and upgraded regularly to cater to latest techniques and trends in the area. 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. **PO12** • Target reached Action1: Students are made to recognize the importance of lifelong learning through pep/ motivational talks and programmes. Using ICT facilities, such as PPTs, live demonstration of topics imparted using video lecture and real time webcast and lecture contents including new technological developmental tools and knowledge of new products, gives students and lifelong knowledge to be further improved upon. Action2: Department will constantly be encouraging registering NPTEL courses for further enhancement of theoretical and practical experience. Action3: The faculty is encouraged to guide and motivate the students to write articles in leading journals, participate in national and international conferences with the articles. Action4: Encouraging students to participate in various events organized in outside colleges/ Institutions. **PSO** Target (%) Attained (%) Observation PSO1: The ability to apply Software Engineering practices and strategies in software project development using open-source programming environment for the success of organization. PSO₁ 66 Target reached Action1: Even though there is improvement, we are concentrating on Application Oriented Teaching to further enhance students' professional skills. Action2: To inculcate algorithmic thinking, formulation techniques and visualization, leading to problem solving skills among students the following courses are to be incorporated viz., Data Science Lab Big Data and Cloud Computing Data Analytics and Visualization Lab **PSO** Attained (%) Observation Target (%) **PSO2:** The ability to design and develop computer programs in networking, web applications and IoT as per the society needs. PSO₂ 66 78 Target reached Action 1: To aware of data engineering domain, department will train the faculty and students together for

Action1: To aware of data engineering domain, department will train the faculty and students together for enhancing their skills on real-time problems. The following courses will be incorporating to meet the industry requirements:

- Bioinformatics for Engineers
- Digital Image Processing
- Computational Geometry
- Symbolic Logic and Automated Reasoning
- High Performance Computing

Action2: Maintain a technical questionnaire database to train students for placement and competitive

exams.			
PSO	Target (%)	Attained (%)	Observation
PSO3: To in	nculcate an ability	to analyse, design and	l implement database applications.
PSO3	67	77	Target reached

Action1: To strengthen the domain knowledge and make them job ready graduates, department is planning to introduce a greater number of professional elective courses.

Action2: Department will provide a platform students will be encouraged to undergo various training program to develop different application in Data Engineering and its allied areas.

Action3: Students are encouraged to publish research papers in various national and international journals/conferences.

Head of the Department

HEAD

Department of Computer Science & Engineering Lakireddy Balireddy College of Engineering MYLAVARAM-521 230, A.P. INDIA