



# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

LETTER

NEWS



 -REFLECTIONS

2021-22 ISSUE-I (JUL - SEP)

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

Affiliated to JNTU-Kakinada, Accredited by NAAC & NBA

Website: <https://www.lbrce.ac.in/>

L. B. Reddy Nagar, Mylavaram, Krishna District, Andhra Pradesh,  
India, Pin Code: 521230.

## Editorial Board

1. Dr. D Veeraiah
2. Dr. M Srinivasa Rao
3. Mr. P Jagadeeswara Rao
4. R. Naga Priyanka - CSE II
5. S. Pradeep - CSE III
6. K. Roshini - CSE III
7. A. Lokesh - CSE IV

- ✦ *FDP/Guest Lectures / Workshops Organized*
- ✦ *Faculty Achievements*
- ✦ *Faculty Publications*
- ✦ *Research Colloquium*
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- ✦ *Workshops Attended by Faculty*
- ✦ *Institute Industry Interaction*
- ✦ *MOU's In-Plant Training*
- ✦ *Students Achievements*
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## Department of Computer Science & Engineering

The Computer Science & Engineering (CSE) department was established in 1998, offers Undergraduate program (B. Tech.) in CSE and Post-graduate program (M. Tech) in CSE. The B.Tech program was started in the year 1998 with an intake of 40 students. The intake was subsequently increased to 60 students in the year 1999, 90 students in the year 2008 and 120 students in the year 2009. The M.Tech was started in the year 2008 with an intake of 18 students. The department is having well qualified and experienced faculty members. Seven of the faculty members are doctorates and remaining are postgraduates. The faculty is a perfect blend of different specializations in Computer Science and Engineering to impart their expertise in handling diversified courses of the UG and PG programs. The teaching methodology in the department goes beyond fulfilling the syllabus requirements of the University, to meet the today's industry needs. Faculty motivates and guides the students to do mini projects in core subjects. Special focus will be given to develop Communication and Soft Skills. The department is having strong association with industries to uplift the student's practical knowledge.

An R&D centre has been established in the department to take up Research projects and also to cater to the needs of faculty, who are doing their Research work. The focus areas of the department for R&D activities identified are Networking & Client Server Technology, Data Mining and Network Security. The department of CSE has been recognized as the research centre by JNTUK, KAKINADA and KRISHNA UNIVERSITY, MACHILIPATNAM. The department of CSE also has the collaborations with the premier industries like CISCO, IBM and MICROSOFT and has established their excellence centres in the department.

The student's success rate is above 87% during the previous 5 years. All the laboratory of the department is established spaciouly with additional equipment. The equipment student ratio is maintained as 1:1. Additional experiments are being conducted in each lab to facilitate the students towards more practical exposure. In addition to the Central Library, a Library is functioning in the department with 960 volumes to extend reference facility to the faculty and students. Audiovisual classes are conducted as per Time-Table to gain the information regarding latest technologies in the field of Computer Science. Internet facility is provided to students also, so that they can survey literature for the purpose of paper presentations, Mini Projects, Term Papers and Projects.

**Faculty Recognitions and Achievements:**

Name of the Faculty	Name of the Award/Recognition	Awarding Agency	Address	Date of recognition/ Award
Sk. Johny Basha	Best Researcher Award 2021	International Journal for Modern Trends in Science and Technology	Vijayawada	17.08.2021

**Research Colloquia:**

S. No	Name	Title	Date	Venue
1	Dr. P. Bhagath	Contemporary research topics	24.07.2021	SONET
2	Mr. Thoka Udaya Kumar	Image processing for Insect detection	20.08.2021	SONET
3	Mrs. K. Devi Priya	Natural Language Processing and its applications	25.09.2021	SONET

**Faculty attended International/National Conferences (External)**

Name of the Faculty	Name of the Conference	Institute/ Organization	Address	Duration (From....to..)	Registration Amount
Dr. M. Srinivasa Rao	2021 International Conference on Recent Advances in Mathematics and Informatics (ICRAMI)	Larbi Tebessi university	Tebessa, Algeria	21-09-2021	NIL
Dr. Ch. Venkata Narayana	2nd International Conference on Electronics and Sustainable Communication Systems IEEE	Hindusthan Institute of Technology	Coimbatore, India	04-08-2021 to 06-08-2021	NIL
Dr. P. Bhagath	IEEE International Conference on Artificial Intelligence in Engineering and Technology	Osaka Institute of Technology (OIT)	Kota Kinabalu, Malaysia	13-09-2021 to 15-09-2021	NIL
Dr. P. Bhagath	2021 IEEE XXVIII International Conference on Electronics, Electrical Engineering and Computing (INTERCON)	Universidad Nacional de San Agustin de Arequipa - UNSA	Lima, Peru	05-08-2021 to 07-08-2021	19,421
Dr. M. Sitha Ram	Third International Conference on Inventive Research in Computing Applications	RVS College of Engineering and Technology	Coimbatore, India	02-09-2021 to 04-09-2021	NIL
Mr. Sk. Johny Basha	2nd International Conference on Electronics and Sustainable Communication Systems IEEE	Hindusthan Institute of Technology	Coimbatore, India	04-08-2021 to 06-08-2021	NIL

**Online/ face-to-face FDPs attended (External)**

Name of the Faculty	Name of the FDP	Institute/Organization	Address	Duration (From....to...)	Registration Amount
Dr. D. Venkata Subbaiah	Machine Learning using Python	APSSDC	Vijayawada	16-08-2021 to 04-09-2021	NIL
Dr. D. Venkata Subbaiah	ATAL Academy FDP on “IoT & Cyber Security”	Institute of Engineering and Management	New Delhi	06-09-2021 to 10-09-2021	NIL
	ATAL Academy FDP on “Introductory Data Science and Deep Learning”	International Institute of Information Technology	Naya Raipur	16-09-2021 to 20-09-2021	NIL
Dr. Y. Vijay Bhaskar Reddy	Machine Learning using Python	APSSDC	Vijayawada	16-08-2021 to 04-09-2021	NIL
Dr. K. Naga Prasanthi	STTP on “Machine Learning Trends & Applications (Phase 2)”	University College of Engineering Kakinada (A), JNTUK	Kakinada	27-09-2021 to 02-10-2021	NIL
Dr. P. Bhagath	40 – Hour FDP on “Artificial Intelligence Applications in Software Engineering”	Sponsored by Ministry of Electronics and Information Technology organized by E & ICT, NIT	Warnagal	06-07-2021 to 14-07-2021	750/-
Dr. M. Sitha Ram	Internet of Things	APSSDC	Vijayawada	16-08-2021 to 04-09-2021	NIL
Dr. S. Jaya Prada	One – Week FDP on “Research Methodology & IPR”	VR Siddhartha Engineering College under AICTE Margadarshan	Vijayawada	13-09-2021 to 17-09-2021	NIL
Dr. K. Devi Priya	ATAL Academy FDP on “Advanced Cloud Computing Technologies and its Benefits for Engineering College Faculties”	ICU of University Grants Commission	New Delhi	13-09-2021 to 17-09-2021	NIL

Name of the Faculty	Name of the FDP	Institute/Organization	Address	Duration (From....to...)	Registration Amount
Mr. D. Srinivasa Rao	40 – Hour FDP on “AI Applications in SE”	Sponsored by Ministry of Electronics and IT organized by E & ICT, NIT	Warangal	06-07-2021 to 14-07-2021	750/-
Mr. G. Balu Narasimha Rao	Machine Learning using Python	APSSDC	Vijayawada	16-08-2021 to 04-09-2021	NIL
Ms. G. V. Rajya Lakshmi	40 – Hour FDP on “Artificial Intelligence Applications in Software Engineering”	Sponsored by Ministry of Electronics and Information Technology organized by E & ICT, NIT	Warangal	06-07-2021 to 14-07-2021	750/-
	Introduction to Research	NPTEL in association with IIT Madras	Madras	Aug – Oct 2021	
	ATAL Academy FDP on “Applications of Machine Learning”	Rajiv Gandhi University	New Delhi	13-09-2021 to 17-09-2021	NIL
Mr. A. Sudhakar	Machine Learning using Python	APSSDC	Vijayawada	16-08-2021 to 04-09-2021	NIL
Mr. T. Udaya Kumar	One Week National Level FDP on “Societal Applications of AI, Blockchain and IoT”	Shri Vishnu Engineering College for Women	Bhimavaram	01-09-2021 to 05-09-2021	NIL
Mr. N. V. Naik	40 – Hour FDP on “Artificial Intelligence Applications in Software Engineering”	Sponsored by Ministry of Electronics and Information Technology organized by E & ICT, NIT	Warangal	06-07-2021 to 14-07-2021	750/-
Mr. N. Srinivasa Rao	Web development using Django	APSSDC	Vijayawada	16-08-2021 to 04-09-2021	NIL
Mr. T. N. V. S. Praveen	Python Programming	APSSDC	Vijayawada	16-08-2021 to 04-09-2021	NIL
Ms. A. Praneetha	One – Week FDP on “Research Methodology & IPR”	VR Siddhartha Engineering College under AICTE Margadarshan	Vijayawada	13-09-2021 to 17-09-2021	NIL

Name of the Faculty	Name of the FDP	Institute/Organization	Address	Duration (From....to...)	Registration Amount
Ms. B. Usha Rani	Accreditation and Outcome Based Learning	IIT Kharagpur in association with NPTEL	Kharagpur	Jul – Sep 2021	NIL
Ms. B. Usha Rani	Machine Learning using Python	APSSDC	Vijayawada	16-08-2021 to 04-09-2021	NIL
	Research Methodology & IPR	VR Siddhartha College of engineering under AICTE Margadarshan	Vijayawada	13-09-2021 to 17-09-2021	NIL
Ms. B. Swathi	Python Programming	APSSDC	Vijayawada	16-08-2021 to 04-09-2021	NIL
	40 – Hour FDP on “Artificial Intelligence Applications in Software Engineering”	Sponsored by Ministry of Electronics and Information Technology organized by E & ICT, NIT	Warangal	06-07-2021 to 14-07-2021	750/-
	Three – Day National Level FDP on “Cyber Security”	SR University	Warangal	01-07-2021 to 03-07-2021	NIL
Mr. P. Jagadeeswara Rao	ATAL Academy FDP on “Data Science”	MCKV Institute of Engineering	New Delhi	20-09-2021 to 24-09-2021	NIL
Ms. M. Swathi	Accreditation and Outcome Based Learning	IIT Kharagpur in association with NPTEL	Kharagpur	Jul – Sep 2021	NIL
	Python Programming	APSSDC	Vijayawada	16-08-2021 to 04-09-2021	NIL
	Five – Days international FDP on “Experimental Teaching – Corporate Cognizance”	Sri Rama Krishna College of Arts & Science in association with TCS	Coimbatore	09-08-2021 to 13-09-2021	NIL
Ms. T. Vineetha	Salesforce Administrator	APSSDC	Vijayawada	14-09-2021 to 17-09-2021	NIL

## Faculty Publications & Research Mobilization

### Journal Publications

Title of paper	Name of the author/s	Dept.	Name of journal	Year of publication	ISSN number	Link of the recognition in UGC enlistment of the Journal
Ant Cat Swarm Optimization-Enabled Deep Recurrent Neural Network for Big Data Classification Based on Map Reduce Framework	Dr.M.Srinivasa Rao	CSE	The Computer Journal	2021-22	Vol.64, issue 10	<a href="https://doi.org/10.1093/comjnl/bxab135">https://doi.org/10.1093/comjnl/bxab135</a>
Quantum inspired meta-heuristic approach for optimization of genetic algorithm	Dr.O.RamaDevi	CSE	Computers & Electrical Engineering,	2021-22	0045-7906	<a href="https://www.sciencedirect.com/science/article/pii/S0045790621003268">https://www.sciencedirect.com/science/article/pii/S0045790621003268</a>
Verifiable Authentication and Issuance of Academic Certificates Using Permissioned Blockchain Network	Dr.M.Srinivasa Rao	CSE	International Journal of Information Security and Privacy(IJISP)	2021-22	Vol.16, Issue 1,2021. 1930-1650	<a href="https://www.igi-global.com/article/verifiable-authentication-and-issuance-of-academic-certificates-using-permissioned-blockchain-network/284052">https://www.igi-global.com/article/verifiable-authentication-and-issuance-of-academic-certificates-using-permissioned-blockchain-network/284052</a>
Effective way to Diagnosis Driver Drowsiness with the aid off Deep-Learning Neural Network (DNN)	Dr.D. Venkata Subbaiah	CSE	Design Engineering (Toronto)	2021-22	Issue.No ;2,2021.ISSN:011-9342.	<a href="https://thedesigengineering.com/index.php/DE/article/view">https://thedesigengineering.com/index.php/DE/article/view</a>
Detection and Analysis of Public Bullying on Social Network sites	N.Srinivasa Rao	CSE	Journal of the Maharaja Sayajirao University of Baroda	2021-22	Vol.55,issue 03,oct-2021, ISSN: 0025-0422	

An Overview of Software development life cycle process models -SDLC	M.Swathi	CSE	Journal of Education	2021-22	Vol.XX VII, Issue:8	
An Android based Mobile Spoken Dialog System for Telugu language to control Smart appliances	Dr.P.Bhagath	CSE	IEEE	2021-22	978-1-6654-1221-6	<a href="https://ieeexplore.ieee.org/document/9532783">https://ieeexplore.ieee.org/document/9532783</a>
A Novel Approach for Optical Character Recognition (OCR) of Handwritten Telugu Alphabets using Convolutional Neural Networks	Shaik Johny Basha, Dr. D. Veeraiah	CSE	2nd International Conference on Electronics and Sustainable Communication Systems	2021-22	978-1-6654-2867-5	<a href="https://ieeexplore.ieee.org/document/9532658">https://ieeexplore.ieee.org/document/9532658</a>
Machine Learning Based Student Academic Performance Prediction	Dr.S.Sitharam	CSE	Third International Conference on Inventive Research in Computing Applications	2021-22	978-1-6654-3877-3	<a href="https://ieeexplore.ieee.org/document/9544538">https://ieeexplore.ieee.org/document/9544538</a>
Machine Learning Techniques To Predict The Price Of Used Cars: Predictive Analytics in Retail Business	Dr.Ch.Venkat Narayana	CSE	2nd International Conference on Electronics and Sustainable 2021-22 Communication Systems	2021-22	978-1-6654-2867-5	<a href="https://ieeexplore.ieee.org/document/9532845">https://ieeexplore.ieee.org/document/9532845</a>
Breast Cancer Detection and Classification from Images Using Deep Learning	K.Sandeep Saradhi	CSE	ICIPCN 2021	2021-22	978-3-030-84759-3	<a href="https://link.springer.com/book/10.1007/978-3-030-84760-9">https://link.springer.com/book/10.1007/978-3-030-84760-9</a>
Fake Profile Detection using Multi – Machine Learning Techniques	V.Sivakrishna	CSE	SSRN	2021-22		<a href="https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3883484">https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3883484</a>
Resume Screening Using Machine Learning	P.Vamsi Naidu	CSE	ICIPCN 2021	2021-22	978-3-030-84760-9	<a href="https://link.springer.com/content/pdf/10.1007/978-3-030-84760-9_63.pdf">https://link.springer.com/content/pdf/10.1007/978-3-030-84760-9_63.pdf</a>
Extraction of Frequent Itemset Using Hybrid Algorithm for Large Transactional Data	D.Srinivasa Rao	CSE	ICICNIS-2021	2021-22		<a href="https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3882490">https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3882490</a>



Automatic Music Genre Classification Based on Linguistic Frequencies Using Machine Learning	Dr.M.Srinivasa Rao	CSE	International Conference on Recent Advances in Mathematics and Informatics (ICRAMI)	2021-22	978-1-6654-4171-1	<a href="https://ieeexplore.ieee.org/document/9585937">https://ieeexplore.ieee.org/document/9585937</a>
A heuristic methodology for ECG heartbeat categorization using Convolutional Neural Networks	Dr.M.Srinivasa Rao	CSE	2nd International Conference on Smart Electronics and Communication (ICOSEC)	2021-22	978-1-6654-3368-6	<a href="https://ieeexplore.ieee.org/document/9591755">https://ieeexplore.ieee.org/document/9591755</a>
Feature Selection using Pre-clustering via Affinity Propagation for Speech Classification in Low-resource Languages	Dr.P.Bhagath	CSE	International Conference on Artificial Intelligence in Engineering and Technology	2021-22	978-1-6654-2899-6	<a href="https://ieeexplore.ieee.org/abstract/document/9573696">https://ieeexplore.ieee.org/abstract/document/9573696</a>
Product Review Analysis	L.V.Krishna Rao	CSE	ICT Systems and Sustainability	2021-22	978-981-16-5987-4	<a href="https://link.springer.com/chapter/10.1007/978-981-16-5987-4_67">https://link.springer.com/chapter/10.1007/978-981-16-5987-4_67</a>
Driver Drowsiness Detection Using Eye Aspect Ratio (EAR), Mouth Aspect Ratio (MAR), and Driver Distraction Using Head Pose Estimation	S.Govindu	CSE	ICT Systems and Sustainability	2021-22	978-981-16-5986-7	<a href="https://link.springer.com/chapter/10.1007/978-981-16-5987-4_63">https://link.springer.com/chapter/10.1007/978-981-16-5987-4_63</a>

### List of Patents

Sl. No.	Title of Patent	Name of The Faculty	Patent Id
1	Neural Network for Real Time Speech Enhancement For Hearing Impaired	Dr. Manaswini Burra	202141053429
2	Method, System and Device for crop detection	Dr.S.Jayapradha Dr.Ch.V.Narayana	202141042413
3	A Decentralized privacy preserving Multi Instance Iris Authentication Device (Dpmiad)	J Nageswara Rao	202141019089

### Students participated in workshops

S. No	Name of Workshop	Roll Number	Name of The Student	Name of The Organization/Institute & Place	Date
1.	C Programming	20765A0505	K.Karthik	Brainovision Solutions	27-07-2021 To 29-07-2021



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(AUTONOMOUS)

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