

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

E E T E



COMPUTER SCIENCE & ENGINEERING

CSE REFLECTIONS

A.Y: 2024-2025 ISSUE-IV(APR-JUN)

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

Approved by AICTE, New Delhi and Permanently affiliated to JNTUK, Kakinada

L.B. Reddy Nagar, Mylavaram, N.T.R District, Andhra Pradesh-521230 Website: lbrce.ac.in

EDITORIAL COMMITTEE:

- 1. Dr. D. Veeraiah
- 2. Dr. B. Siva Rama Krishna
- 3. Mr. S. Srinivasa Reddy
- 4. Mr. CH. Yasvanth, III Year

EVENTS ORGANIZED:

- ***** Faculty Achievements
- **❖** Faculty Publications
- * Research Colloquium
- **NPTE** Achievements
- **❖ Industrial Visits**
- **❖ MoU's Signed**
- Workshops conducted by Faculty
- Workshops attended by Faculty/Students
- **Student Internships**
- **Student Achievements**
- Student Results-Toppers
- **Placement Details**
- Sports Details
- *NSS
- *NCC

ABOUT THE DEPARTMENT:

The Department of Computer Science and Engineering at the LBRCE was established in 1998, offers Undergraduate Programs -B.Tech in CSE and Post Graduate Program - M.Tech in Data Science. The B.Tech Science and Engineering) (Computer program was started in the year 1998 with an intake of 40 students and the intake was subsequently increased to 60 students in the year 1999, 90 students in the year 2008, 120 students in the year 2009, 180 students in the year 2019, 240 students in the year 2023 and 420 students in the year 2024. The M.Tech (Data Science) was started in the year 2023 with an intake of 06 students. Currently, our institute has enabled high speed Internet bandwidth of 2090 Mbps.

VISION:

The Computer Science & Engineering aims at providing continuously stimulating educational environment to its students for attaining their professional goals and meet the global challenges.

MISSION:

- 1. To develop a strong theoretical and practical background across the computer science discipline with an emphasis on problem solving.
- 2. To inculcate professional behavior with strong ethical values, leadership qualities, innovative thinking and analytical abilities into the student.
- 3. Expose the students to cutting edge technologies which enhance their employability and knowledge.
- 4. Facilitate the faculty to keep track of latest developments in their research areas and encourage the faculty to foster the healthy interaction with industry.



Resource Person: Mr. J. Pravin Kumar

Name of the Organization: Prodvens Technologies Pvt.Ltd, HYD

Event Date: 03-04-2025

About The Event:

Understand the Evolution of Modern Operating Systems – Explain how OS architectures have evolved to incorporate security enhancements, AI capabilities, and cloud-based computing. Explore OS-Level Security Mechanisms – Discuss built-in security features such as access control, encryption, secure boot, sandboxing, and zero-trust models in modern OS. Examine AI-Enabled OS Functions – Highlight how AI is used in resource allocation, process scheduling, predictive maintenance, anomaly detection, and system optimization.

Analyse Cloud-Based OS Innovations – Explain how modern OS integrates with cloud environments, including virtualization, containerization (Docker, Kubernetes), and serverless computing. Discuss Industry Use Cases and Trends – Provide real-world examples of how companies and organizations implement secure, AI-driven, and cloud-enabled operating system





Resource Person: Mr. M. Tribhuvan Reddy

Name of the Organization: LTIMindtree, HYD

Event Date: 1st and 2nd April 2025

About The Event:

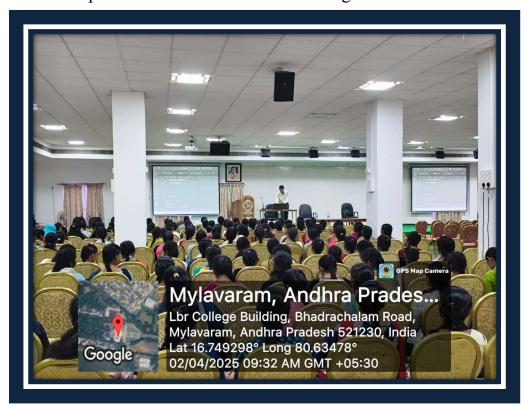
➤ To introduce the basics of C++ programming.

- > To develop logical thinking and coding skills.
- > To identify and recognize top-performing students
- To provide a practical learning experience through coding exercises.

Key Activities:

Day 1: Introduction to C++, syntax, data types, control structures, and basic I/O operations. Live coding demonstrations and hands-on practice.

Day 2: Functions, arrays, pointers, and sample problem-solving sessions. Conducted a sample assessment to evaluate learning outcomes.





Sponsored Research & Consultancy

Sponsor cu rescur en a Consultancy									
S.No.	Faculty with Designation	Title of the Proposal	Funding Agency- Scheme	Amount Sanctio ned & Date	Amount received in Rs.& Date	Duration & Status			
1.	Ms.B.Swathi	Abusive Social Media Comments Detection Telugu language using deep learning transformer models: Corpus generation and evaluation	LBRCE	Nov 2025	50000	Sanctioned & Ongoing			
2.	Dr. K. Devi Priya Dr. B. Siva Rama Krishna	IoT Integrated system for Gas Leak detection and threat Zone Identification and method Employed thereof	MSME	June- 2025	15,00,000	Sanctioned			

Publications:

Journals(SCI):

1. Udayaraju Pamula, Venkateswararao Pulpits, **G. Vijaya Suresh**, M. V. Jagannatha Reddy, Anil Kumar Bondala, Srihari Varma Mantena & Ramesh Vatambeti "**Optimizing diabetic retinopathy detection with electric fish algorithm and bilinear convolutional networks**" Scientific Reports. *Sci Rep* 15, 14215 (2025).23 April 2025, ISSN/eISSN:2045-2322 https://doi.org/10.1038/s41598-025-99228-w,Q1,Impact factor:0.9.

Journals(SCOPUS):

- 1. Potharaju, S., Tambe, A. **N.Srikanth**, N., Tirandasu, R. K., Amiripalli, S. S., & Mulla, R, "Smartphone Based Real-Time Detection of Postural and Leg Abnormalities using DeepLearning Techniques", Journal of Current Science and Technology, Vol. 15 No. 3,Article 112, pg.No. 1-14, 15 June 2025, 2630-0656, https://doi.org/10.59796/jcst.V15N3.2025.112, Q3, Impact Factor-0.174.
- M Ramakrishna Murty, Dr. Sireesha Vikkurty, Shaik Johny Basha, Dr. Gottumukkala Santhi, T.N.V.S. Praveen, Dr. S. Selvakanmani, Dr. Siva Kumar Pathuri, Enhancing Skin Disease Detection With Optimized Vgg-19 And Explainable Grad-Cam Visualization, Journal of Theoretical and Applied Information Technology, Vol.103. No.11, 15th June 2025, ISSN: 1992-8645, E-ISSN:1817-3195, https://jatit.org/volumes/Vol103No11/15Vol103No11.pdf, Q4, Impact Factor:0.272

- 3. S Phani Praveen, S Lalitha, P Sarala, K Satyanarayana, Dimitrios A. Karras, Optimizing Intrusion Detection in Internet of Things (IoT) Networks Using a Hybrid PSO-LightBoost Approach, International Journal of Intelligent Engineering & Systems, Vol.18, Issue No.3, 30 April 2025, ISSN:2185-310X,10.22266/ijies2025.0430.14,Q3,Impact Factor:0.272.
- 4. Gavarraju LN, Sandhya, Singasani TR, Pulugu D, Vatsavai LS, **Bajjuri Usha Rani**, Vatambeti R. "A deep learning framework for ECG Arrhythmia classification using GAM-ResNet18 and Namib beetle optimization-based domain adaptation" International Journal of Advanced Technology and Engineering Exploration. 2025; 12(126):803-818, ISSN (Print): 2394-5443 ISSN (Online): 2394-7454,Volume-12 Issue-126,May-2025, **DoI:**https://accentsjournals.org/paperinfo.php?journalPaperId=1794Q3, H-Index15,Impact Factor:0.245
- 5. G. Sujatha, M. Swathi, Bhagya Prasad B, Shaik Johny Basha, A Swathi, Bala Prasanthi P, M Sitha Ram, Surya Prasada Rao Borra, "Multi-Cnn Model To Evaluate The Performance Of Face Detection And Recognition With Facial Feature Detection And Recognition", Journal of Theoretical and Applied Information Technology, 15th May 2025 -- Vol. 103. No. 9—2025, ISSN: 1992-8645, E-ISSN: 1817-3195, http://www.jatit.org/volumes/hundredthree9.php, Q4, Impact Factor-0.168.
- 6. D Anusha, M. Gayathri, B V Chowdary, Dr. Narasimha Chary CH,DR. Athmakuri Satish Kumar, DR. C Nagesh, "Building Robust IOT Networks With Dynamic Layer Prioritization And Predictive Fault Management Process", Journal of Theoretical and Applied Information Technology, 31st March 2025. Vol.103. No.6, 1817-3195/1992-8645, http://jatit.org/volumes/Vol103No6/27Vol103No6.pdf,Q4, Impact Factor-0.168.

Yet to be indexed-02:

- V. S. Pittala, G. Dhanushya, K. Brahmanaidu and Krishna, "Enhanced High-Dimensional Data Prediction using Additive Square Lasso-based Imputation and Deep Learning Architectures," 2025 Third International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, 2025, pp. 641-648, ISBN: 979-8-3315-0724-4, DOI: 10.1109/ICAISS61471.2025.11042002.
- 2. N. SrinivasaRao, B. Saipriya, J. Naveen and G. Gopichandh, "Deep Learning for **MRI-Based** Brain Disease Classification and **Paralysis** Prediction," 2025 2nd International Conference on Trends in Engineering Systems and Technologies (ICTEST), Ernakulam, India, 26-June-2025, pp. 1-6,**Date** Conference: 03-05 April 2025, ISBN: 979-8-3315-0537-0 DoI: 10.1109/ICTEST64710.2025.11042852.

Conference Proceedings:

- ➤ Dr. Ch. Venkata Narayana; Yanduru Neha; Chatla Vijay Kumar; Velpuru Gowthami Manasa; Tiruveedula Charan Teja, Classification of Pneumonia in Chest Radiographs using Deep Learning Techniques, 2025 International Conference on Inventive Computation Technologies (ICICT), Date of Conference: 23-25 April 2025, Date Added to IEEE Xplore: 23 May 2025, Conference Location: Kirtipur, Nepal, Electronic ISBN:979-8-3315-1224-8, ISBN: 2767-7788. DOI: 10.1109/ICICT64420.2025.11004923
- N. Vullam, G. S. Rani, T. Prabhakara Rao, V. D. Babu, Venkata Subbaiah Desanamukula and A. L. Rao, "Enhancing Skin Cancer Detection with Novel Data Augmentation and Transfer Learning Techniques", 2025 3rd International Conference on Intelligent Systems, Advanced Computing and Communication (ISACC), Silchar, India, 22 April 2025, pp. 931-936,27-28 of February,2025 DoI: 10.1109/ISACC65211.2025.10969213(59897903800), ISBN:979-8-3315-2389-3,
- ➤ Y.V.Bhaskar Reddy, C Satya Kumar, Parise Sai Niteesh, Gunda Ravi Teja, P. Ashok Reddy, M. Babu Reddy, "EAPCET College List Recommendation System", 2025 International Conference on Emerging Systems and Intelligent Computing (ESIC), Date of Conference: 08-09 February 2025, Date Added to IEEE Xplore: 16 April 2025, Conference Location: Bhubaneswar, India,ISBN:979-8-3315-2210-0, 979-8-3315-2211-7, 10.1109/ESIC64052.2025.10962751, https://ieeexplore.ieee.org/document/10962751/authors#authors
- ➤ S.Nagarjuna Reddy, Malyadri Battula, Sai Tameera, Shaik Nagulu Bi, "Optimizing Plant Health: A Deep Learning Ensemble Approach to Nutrient Deficiency", Detection, 2025 International Conference on Inventive Computation Technologies (ICICT), Date of Conference: 23-25 April 2025, Conference Location: Kirtipur, Nepal, Electronic ISBN:979-8-3315-1224-8, ISBN:979-8-3315-1225-5, ISSN: 2767-7788,ISSN: 2767-777X. 10.1109/ICICT64420.2025.11004900
- ➤ Dr.S. Govindu; G. Naga Nikhilesh Kumar; SK. Faseeha Tabassum; SK. Naveed, Real-Time Dermatological Classification and Knowledge Retrieval: A Deep Learning and Web Scraping Approach, 2025 International Conference on Inventive Computation Technologies (ICICT), Date of Conference: 23-25 April 2025, Date Added to IEEE Xplore: 23 May 2025, Conference Location: Kirtipur, Nepal, ISBN:979-8-3315-1224-8, DOI: 10.1109/ICICT64420.2025.11004908.
- ➤ Dr.S. Govindu; Kasireddy Aswini; Yaramala Anitha Reddy; Thota Gopisankar, Enhancing Heart Disease Prediction Using Different Ensemble Models, 2025 International Conference on Inventive Computation Technologies (ICICT), Date of Conference: 23-25 April 2025, Conference Location: Kirtipur, Nepal, 5/23/2025, 2767-7788, 2767-777X, DOI: 10.1109/ICICT64420.2025.11005288

HHH

- **K Venkatarao**; Manimala Vyasa Rama Surya Kumar; Gade Lakshmi Vamsi Krishna Reddy, Deep Learning-based Sandadi Prasanna; Recognition of Bacterial Brain Abscesses: A Comprehensive Approach Towards Brain Disease Detection, 2025 International Conference on Machine Learning and Autonomous Systems (ICMLAS), Date of Conference: 10-12 March 2025, Date Added to IEEE Xplore: 25 April 2025, ISBN:979-8-3315-0574-5, Location: Prawet, Thailand, **DOI:** 10.1109/ICMLAS64557.2025.10968424.
- ➤ A Sree Rama Chandra Murthy; Ganta Mercy; Laghuvarapu Jyothi Prakash; Koyyagura Sukumar Bose, Histopath-DL-OC: Deep Learning for Oral Cancer Prediction from Histopathology Data, 2025 International Conference on Inventive Computation Technologies (ICICT), Date of Conference: 23-25 April 2025, Date Added to IEEE Xplore: 23 May 2025, Conference Location: Kirtipur, Nepal, 979-8-3315-1224-8, DOI: 10.1109/ICICT64420.2025.11004899.
- ➤ N. V. Naik; M. Sravani; R. Leela Sai Pavan; B. Nikhil, Emotion Recognition from Audio, Live Video and Text, 2025 International Conference on Inventive Computation Technologies (ICICT), Date of Conference: 23-25 April 2025, Date Added to IEEE Xplore: 23 May 2025, Conference Location: Kirtipur, Nepal, ISBN:979-8-3315-1224-8, DOI: 10.1109/ICICT64420.2025.11005208.
- ➤ S.Srinivasa Reddy, Bhairi Sonasri, Chilukuri Jyothi, Peddi Vasanthi, "Ai-Powered Crop Yield and Health Monitoring System", 2025 International Conference on Inventive Computation Technologies (ICICT), Date of Conference: 23-25 April 2025, Date Added: 23 May 2025, Conference Location: Kirtipur, Nepal, Electronic ISBN:979-8-3315-1224-8, ISBN:979-8-3315-1225-5, ISSN: 2767-7788, ISSN: 2767-777X. 10.1109/ICICT64420.2025.11005224
- ➤ S. Srinivasa Reddy S, Kesava Chari Vantikaka, Vara Lakshmi Madugula, "Portable Audio-Based Navigation Aid for the Visually Impaired", 2025 International Conference on Inventive Computation Technologies (ICICT), Date of Conference: 23-25 April 2025, 23 May 2025, Conference Location: Kirtipur, Nepal, Electronic ISBN:979-8-3315-1224-8, ISBN:979-8-3315-1225-5, Electronic ISSN: 2767-7788,ISSN: 2767-777X. 10.1109/ICICT64420.2025.11004972
- N Srinivasa Rao, Pasalapudi Kasi Viswesh; Dumpa Sushma Reddy; Balasaraswati Sandesh, Convolutional Neural Networks for Accurate Brain Tumor Detection and Analysis, 2025 International Conference on Machine Learning and Autonomous Systems (ICMLAS), Date of Conference: 10-12 March 2025, Date Added to IEEE Xplore: 25 April 2025, Conference Location: Prawet, Thailand, ISBN:979-8-3315-0574-5, DOI: 10.1109/ICMLAS64557.2025.10967863.

- ➤ B.Swathi; Challa Deena Vamsi; Mohammed Jafrin; Ajay Ramisetti, A Comprehensive System for Diabetes Management and Prediction Using AI-Driven Chatbot and Machine Learning Models, 2025 International Conference on Inventive Computation Technologies (ICICT), Date of Conference: 23-25 April 2025, Date Added to IEEE Xplore: 23 May 2025, Conference Location: Kirtipur, Nepal, ISBN:979-8-3315-1224-8, DOI: 10.1109/ICICT64420.2025.11004922.
- ▶ B. Usha Rani; G Bhavana; Sravya V, "An Enhanced Microarray Sample Classification Using Machine Learning", 2024 5th International Conference for Emerging Technology (INCET), Date of Conference: 24-26 May 2024/Belgaum, India, "Electronic ISBN:979-8-3503-6115, Print ISBN:979-8-3503-6116-2. DOI:10.1109/INCET61516.2024.10593084
- ➤ N. Srikanth, L. Konna, Y. Bandi and T. MaddiReddy, "Deep Learning Based Soil Classification and Crop Recommendation: A Real-Time Smart Agriculture Approach", 2025 International Conference on Inventive Computation Technologies (ICICT), Date of Conference: 23-25 April 2025, Date Added: 23 May 2025, Conference Location: Kirtipur, Nepal, ISBN:979-8-3315-1224-8, ISBN:979-8-3315-1225-5, Electronic ISSN: 2767-7788, Print ISSN: 2767-777X, 10.1109/ICICT64420.2025.11004744
- ➤ D Anil kumar; Bathula Thirupathi Rao; Bathini Rangaswamy; Kagitha Meghana, "An Efficient Approach for Food Demand Forecasting Using an Ensemble Technique and Statistical Analysis", Cognitive Computing and Cyber Physical Systems, (IC4S 2024), pp 61–77, 2025-02-09, E-ISSN: 1867-8211, 10.1007/978-3-031-77075-3 6
- ➤ D Anil Kumar; Ponnuru Sravya Karthika; Shaik Saida Basha; Maddala Jyothi Prakash, "LeafGuard: An AI-Driven Approach for Early Detection of Plant Pathogen Infections", 2025 International Conference on Inventive Computation Technologies (ICICT), Date of Conference: 23-25 April 2025, 23 May 2025, Conference Location: Kirtipur, Nepal, ISBN:979-8-3315-1224-8, ISBN:979-8-3315-1225-5, Electronic ISSN: 2767-7788, 2767-777X, 10.1109/ICICT64420.2025.11004893.
- ➤ M. Kiran Kumar, J. Vaishnavi, T. Anjibabu, V. Jayasri, "Skin Cancer Detection: A Hybrid Approach Combining CNNs and Explainable AI", 2025 International Conference on Machine Learning and Autonomous Systems (ICMLAS), Date of Conference: 10-12 March 2025, 25 April 2025, Conference Location: Prawet, Thailand, ISBN:979-8-3315-0574-5, ISBN:979-8-3315-0575-2.10.1109/ICMLAS64557.2025.10968907,
- Srinuvas Kumar Battina; Ravi Kumar Suggala; Srinivasa Rao Dangeti; M.Kiran Kumar; Pavan Kumar Vadrevu; Naga Sravanthi P, "Secure Pool Mining Through SVM-Based Miner Classification and Computation Validation in Blockchain Networks", 2024 OITS International Conference on Information Technology (OCIT), Date of Conference: 12-14 December 2024, 29 April 2025, Conference Location:Vijayawada, India, ISBN:979-8-3315-1041-1.10.1109/OCIT65031.2024.00102

Other Proceedings-05:

- 1. A.Sudhakar, M.Jogendra Kumar, V.Ravi Krishna Reddy, Ch.Vishwanath, Enhanced Multimodal Biometric Authentication Using Fused Finger Palm and Speech Features, International Conference on Multidisciplinary Breakthroughs and NextGen Technologies 2025, pg.no:354-363,26th Apr, 2025, 2456-1983
- 2. B. Usha Rani, Rajya Lakshmi Davuluri, Bapathu Pravallika, Shaik Shareef, Pollothu Eswar Yadav, Smartcropguard: Real-Time IoT and Machine Learning for Crop Prediction and Maintenance Alerts, International Conference on Multidisciplinary Breakthroughs and NextGen Technologies 2025, pg.no:397-408,26th Apr, 2025, 2456-1983
- **3. P.Nagababu,** Katta Gayathri, Edara Avinash, Undavalli Vinay Kumar, **Parkinson's Disease Classification using Transfer Learning**, International Conference on Multidisciplinary Breakthroughs and NextGen Technologies 2025, pg.no:364-376,26th Apr, 2025, 2456-1983
- **4. P. Rajasekhar**, Manoj Kumar Pagadala, Rakesh Kumar Alasandalapalli, Uday Kiran Gaddagunta, **Dynamic Environmental Assessment: A Remote Sensing Analysis of Ongoing Land Use and Cover Changes in a Region**, International Conference on Multidisciplinary Breakthroughs and NextGen Technologies 2025, pg.no:409-416,26th Apr, 2025, 2456-1983
- 5. M. Gayathri, B.V. Venkat, V. Soma Sundara Reddy, A. Harshitha, SignBridge: Bridging Communication with Sign Language, International Conference on Multidisciplinary Breakthroughs and NextGen Technologies 2025, pg.no:386-396,26th Apr, 2025, 2456-1983

Open Access Journals-02:

- 1. Venkateswara Rao, D.Srilatha, Sridevi Sakhamuri, **D.Venkata Subbaiah**, M.Asha Priyadarshini, P.Ramya, "Leveraging Flask API and machine learning to forecast Multiple Diseases", Communication on applied Nonlinear analysis, Vol 32(1), 2025, PP: 150-162, ISSN: 1074-133X, Q4, Impact Factor-0.13.
- 2. Keshetti Sreekala, Srilatha Yalamati, Annemneedi Lakshmanarao, Gubbala Kumari, Tanapaneni Muni Kumari, Venkata Subbaiah D, "A hybrid convolutional neural network-recurrent neural network approach for breast cancer detection through Mask R-CNN and ARI-TFMOA optimization", International Journal of Electrical and Computer Engineering (IJECE), Vol.15, No.3, pp. 3084~3094, June2025, ISSN 2088-8708,e-ISSN:2722-2578, Q2, Impact Factor-0.36.

HHH

UGC Journals – 01:

➤ M. Kiran Kumar, K. Manoj, V. Rama Rao, SK. Bashith Ali, SkinScanPro: A Deep Learning-Based AI Health Assistant for Skin Disease Classification, International Journal of Engineering Research in Computer Science and Engineering, Volume 12, Issue 5, May 2025, pg.no13-18, May 2025, 2394-2320, https://ijercse.com/skinScanPro.phpurn

Patents:

S.	Patent Title	Applicants/ Inventors	Patent No.	Published
No				date
1.	Ai-Powered Smart Drone System And Method For Precision Pesticide Spraying In Agriculture	Dr B Sivaramakrishna,	202541058 538	27/06/2025
2.	Artifical Intelliegence based Cloud Data Security Detector	Mr. Poovendran Alagarsundaram , Mrs. Shabnam Ara, Mrs. Tl Deepika Roy , Ms. M. Swathi, Dr. Putta Durga ,Mr. Abhlash	443944-001	27/03/2025
3.	System And Method For Real-Time Driver Behavior And Safety Monitoring	Seelam Mohith Reddy , Ms. M. Swathi , Dr. D. Veeraiah, Dr. D. Venkata Subbaiah , Jonnadula Manasa , Kandula Tejasai	202541034 679	9/5/2025



REFLECTIONS TEAM



EDITOR IN CHEIF

Dr. D. Veeraiah, HOD



EDITOR

Dr. B. Siva Rama Krishna
Assoc. Professor



EDITOR Mr. S. Srinivasa Reddy Sr. Asst. Professor



STUDENT EDITOR

Mr. Chitturi Yasvanth III Year, 22761A05E2





DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

E S L E T T E

R

CSE REFLECTIONS A. Y: 2024-2025 ISSUE-4 (APR-JUN)



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

Approved by AICTE, New Delhi and Permanently affiliated to JNTUK, Kakinada

L.B. Reddy Nagar, Mylavaram, N.T.R District, Andhra Pradesh-521230 Website: Ibrce.ac.in