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News letter

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LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(Autonomous)

MYLAVARAM – 521230, N.T.R Dt., A.P, INDIA

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Vision

To empower the students to become **technologically vibrant, innovative and emotionally matured**; and to train them to face the challenges of the quality conscious globalized world economy.

Mission

IM1: To provide an environment most **conducive to learning** and to create a **stimulating intellectual atmosphere** on the campus.

IM2: To achieve **Academic Excellence**.

IM3: To ensure a **Holistic Development** of Personality.

IM4: To spread **Education to Rural Areas**.

IM5: To establish partnership between **Institution & Industry**

About LBRE

Lakireddy Bali Reddy College of Engineering (LBRCE) was founded through Lakireddy Bali Reddy Charitable Trust in 1998 by eminent philanthropist and NRI Entrepreneur Sri Lakireddy Bali Reddy, a Chemical Engineer by qualification. Since the inception, LBRCE aims at co-creating value-based technical excellence, which ultimately leads to the development of the rural area where the college is situated.

Lakireddy Bali Reddy College of Engineering (LBRCE), approved by AICTE and affiliated to JNTUK, Kakinada is an Autonomous Institution since 2010 and has been accredited by NAAC with 'A' Grade (3.20 / 4 in Cycle-2), NBA (ASE,CE, CSE, IT, ECE, EEE& ME) under Tier-I and ISO 9001:2015 Certified. It has also been awarded 2(f) and 12(B) status and Recognized as a 'Colleges with Potential for Excellence' (CPE) by UGC. It ranks in 251-300 band (Under Engineering) in NIRF India Rankings - 2022 and ranked 201-250 band (Under Engineering) in NIRF India Rankings - 2020. At present, we offer 9 B.Tech programs in CSE, CSE (AI&ML), AI & DS, IT, ECE, EEE, CE, ASE, ME and 4 M.Tech programs in CSE, Thermal Engg., Power Electronics & Drives, VLSI and Embedded systems, apart from M.B.A. Operating from a 65-acre green landscaped campus in Mylavaram, major facilities include 7 advanced labs, Internet with 1800 Mbps bandwidth, Digital library, 500KWp solar PV system, Indoor and Outdoor stadium, Gym, Yoga centre, NSS unit, NCC Girls wing, Girls and Boys hostels. The teaching-learning process is handled by highly-qualified and experienced faculty. In R&D, we currently handle 12 projects sanctioned by DST, Govt. of India, UGC, and AICTE amounting to Rs 7 Crores, besides 29 patents and 1150+ research publications. Also 4 depts. function as research centres of JNTUK, Kakinada.

Principal's Message

Dear Students and Faculty Members,

Last three months have been phenomenal for us. Graduation Day Celebrations were conducted for 2019-23 batch on 26th May. 2023.Chief Guest Dr. G.V.R PRASADA RAJU, Hon'ble Vice-Chancellor, JNTUK, Kakinada, Guest of Honor Sri.D.Ramakrishna, MD, Effoctronics Systems, Pvt.Ltd.Vijayawada, Prof.V.S.S.Kumar, Director, NITTR Chennai are grace the occation. We have seen exceptional success in placements. I feel happy to share that our Computer engineering student, Ms.Rallabandi Eswari Madhavi, got recruited in IBM package of 11LPA. In NIRF Innovation ranking 2023, LBRCE is ranked 101-150 rank band, The Week Best Colleges-2023 is ranked 13 among all private colleges in south zone and Internalshala-2022 is ranked 47 in south Zone. Seven of our UG programs ASE,CE,CSE, IT, ECE, EEE & ME were re-accredited by NBA for a period of 3 years under Tier-I. K.S.V.Supraja, III ECE students got 2nd place in State level "Best Student Award" by Hon'ble Chief Minister of Andhra Pradesh Sri.Y.S.Jagan Mohan Reddy. 83 students (each 25k) received the NSF scholarship, worth 20.75L. LBRCE students secured runners position in Basketball (w), JNTUK Central Zone Inter collegiate tournament held at RISE, Ongole. 4 I congratulate all stakeholders for their incessant efforts.

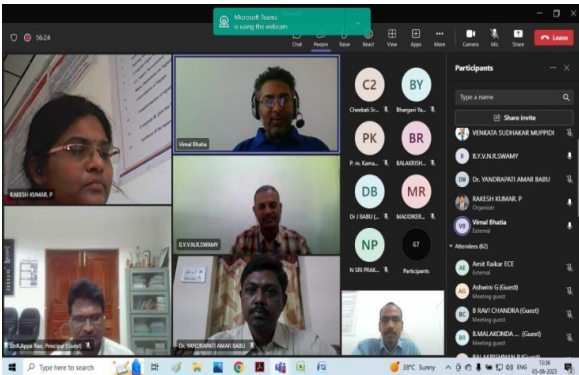
Rankings and Recognitions



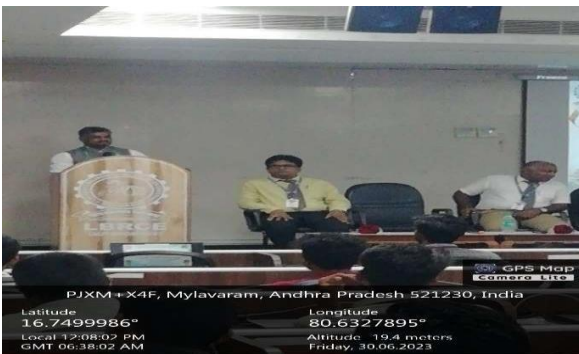
Major Events



AI&DS department celebrated **Spirit of AI Club Day** on 13.04.2023 by conducting various events both curricular and co-curricular activities for students of I, II and III Year Students. The coordinators of the Spirit of AI Club organized this event and made it successful.



The Department of ECE organized a Five-Day FDP on “Advanced Communication Systems” from 05- 06-2023 to 09-06-2023. Dr. M. V. Sudhakar acted as Coordinator, Dr. B.Y.V.N.R Swamy, Dr. P. Rakesh Kumar acted as Co-Coordiators for the FDP.



The Department of ECE organized Guest Lecture on “UPSC competitive Exams Preparation” on 30-06-2023. Dr. G.L.N. Murthy, Mr. T. Anil Raju acted as Coordinators for this guest lecture. Resource Person: Dr..Subrahmanyam Ch, Deputy Director, UPSC, New Delhi. (Alumni of LBRCE)



The Department of Electrical & Electronics Engineering has conducted a Guest Lecture on “Developments in Installation capacity, Stages, working of various sub-systems of Thermal power generating station”, on 18-04-2023, Mr Srinivas, ADE, Dr.NTPS APGENCO Power Generation Plant, Ibrahimpatnam, VIJAYAWADA, Andhra Pradesh, for B. Tech-IV Semester B Section Students.



The department of MBA Organized an Knowledge sharing session on A Ratio Analytical Performance Focus on 01-06-23 by Dr. K. Bhanu Prakash, CFO, MN Infra, Tadepalligudem.



The department of MBA organized A Knowledge sharing session on NSIM, NCFM Certification Courses for career growth and Job opportunities by MD. Jakir Hussain, Director Ardha Institute, Opposite Raghavaiah Park Bandar Road, Vijayawada on 13-06-23

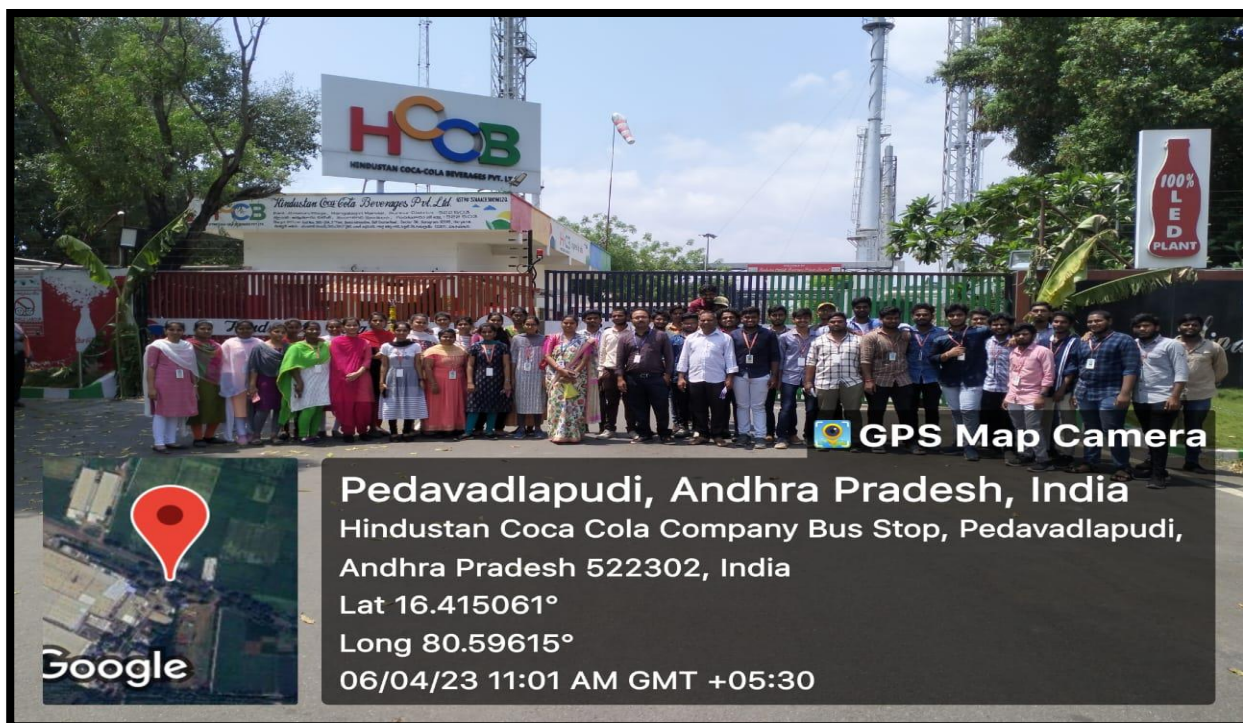


The department of MBA has organized a A Lecture on Green HRM, how to Improve Soft Skills for more employability in the market by Dr. T. Chandra Sekhar Yadav, Assistant Professor, MBU, Tirupathi on 17-06-23.

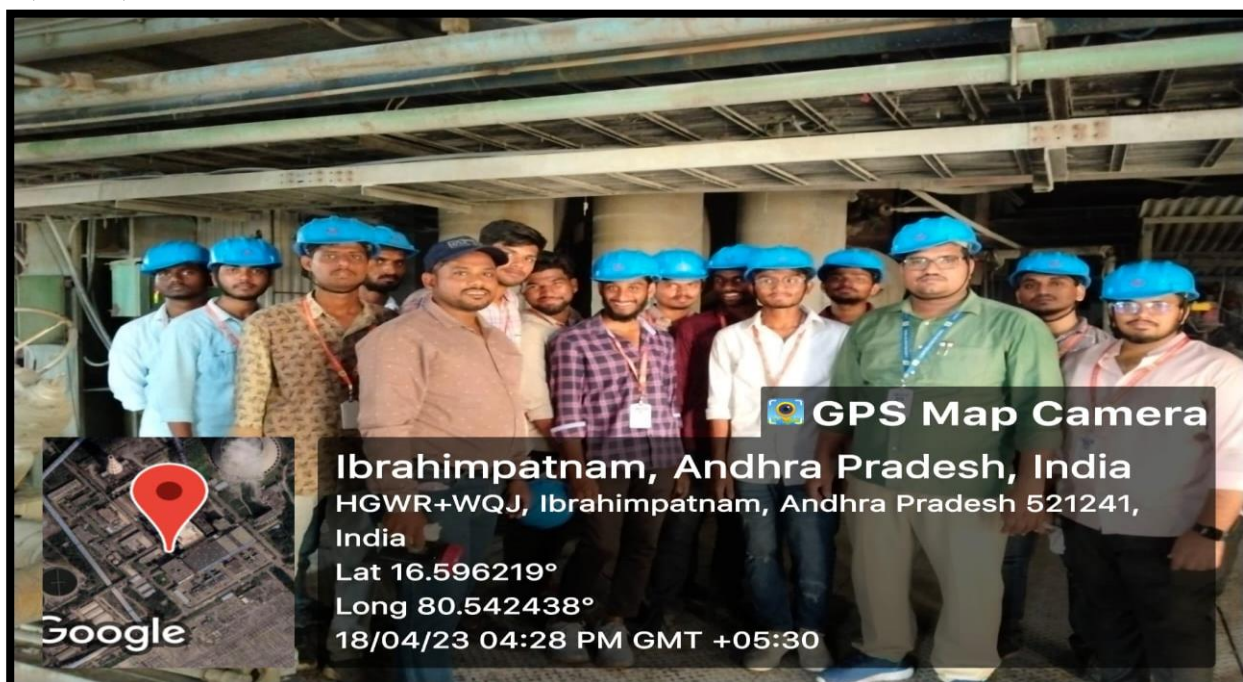


The department of IT A 6-day Online Faculty Development Program on “Machine Learning- In Practice”, 19th June to 24th June, 2023

Industry Institute Interactions



The Department of Electrical & Electronics Engineering has organized a one day Industrial Visit for B.Tech VI Semester Section-B Students to Hindustan Coca-Cola Pvt., Ltd., Pedavadlapudi, Andhra Pradesh on 06-04-2023 and 12-04-2023 accompanied by Mr.P.Deepak Reddy and Mrs.K.S.S.Lavanya (A-sec), Mrs. T.Himabindu and Mr.V.Prabhakar Reddy (B-sec)



The Department of Electrical & Electronics Engineering has organized a one day Industrial Visit for B.Tech IV Semester Section-B Students of Electrical Engineering visited Dr.NTTPS APGENCO Power Generation Plant, Ibrahimpatnam, VIJAYAWADA, Andhra Pradesh on 18-04-2023 accompanied by Mr.K.Nagalinga Chari and Mrs.K.S.L.Lavanya

Research & Consultancy

Publications

- ["Fertilizer Forecasting using Machine Learning"](#) [O. Rama Devi](#) [P. Naga Lakshmi](#) [S.Naga Babu](#); [K. Vinaya Sree Bai](#); [Sowmya](#); [Akansha](#) 2023 International Conference on Inventive Computation Technologies (ICICT) June 2023 | Conference Paper | Publisher: IEEE
- ["Customer Churn Prediction using Machine Learning: Subscription Renewal on OTT Platforms"](#) [O. Rama Devi](#) [Sai Krishna Pothini](#); [Mulpuru Prasanna Kumari](#); [Sowjanya. V](#); [Uppalapati Naga Sai Charan](#) 2023 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC) Jun- 2023 | Conference Paper | Publisher: IEEE
- ["Crop Recommendation System using Random Forest Algorithm in Machine Learning"](#) [Siva Ramakrishna Sani](#) [Surya Venkata Sekhar Ummadi](#) [SriRajarajeswari Thota](#); [Nikitha Muthineni](#); [Varun Sai Srinivas Swargam](#); [Teja Sree Ravella](#) 2023 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC) Year Jun- 2023 | Conference Paper | Publisher: IEEE
- ["Model Based Design Accelerometer Control system in EV-ECU For HIL Testing"](#) [Dusarlapudi Kalyan](#); [Kattupalli Sudhakar](#); [Paleti Prudhvi Venkata Sai](#); [J S V Gopala Krishna](#) 2023 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE) Date Added to IEEE Xplore: 10 April 2023
- ["The Dashboard Infrastructure of Electric Vehicles with IoT and Wireless Power Transfer System"](#) [Charan Sai Tiruvuri](#); [Kalyan Dusarlapudi](#); [Kattupalli Sudhakar](#); [J S V Gopala Krishna](#); [AC Priya Ranjani](#); [Paleti Prudhvi Venkata Sai](#) 2023 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE) Apr- 2023 | Conference Paper | Publisher: IEEE.
- ["An IOT-Based system for Fault Detection And Diagnosis in Solar PV"](#) [Balakrishnan D](#), [Raja J.](#), [Manikandan Rajagopal](#), [Sudhakar K.](#) and [Janani K.](#) Volume 387, 2023 International Conference on Smart Engineering for Renewable Energy Technologies (ICSERET-2023) 15 May 2023.
- ["Modeling and Analysis of Novel 3Axis MEMS Accelerometer for Biomedical Applications"](#) [Kalyan Dusarlapudi](#); [Prathyusha Chennupati](#); [Siva Ramakrishna Sani](#); [Paleti Prudhvi Venkata Sai](#) 2023 2nd International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN): June-2023 | Conference Paper | Publisher: IEEE.
- ["Phishing Detection a Predictive Model for Cyber Security"](#) [Venkatesh Koreddi](#); [Baby Sai Aruna Juluru](#); [Sailaja Gandipudi](#); [Panem Gandhi Prakash](#); [Venkateswarao Jannegorla](#); [Chandra Sekhar Kalavakuri](#) 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC) Year: 2023 | Conference Paper | Publisher: IEEE.
- ["Machine Learning based Enhanced Autonomous Driving for Autonomous Vehicles"](#) [Lavanya M C](#); [Akshatha M](#); [P. Radhakrishnan](#); [Kshatriya Vinaya Sree Bai](#); [S.Vijayalakshmi](#); [Jarabala Ranga](#) 2023 International Conference on Inventive Computation Technologies (ICICT) Year: 2023 | Conference Paper | Publisher: IEEE

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- Mr. G.V. Suresh, Gene expression data classification with robust sparse logistic regression using fused regularization *International Journal of Ad Hoc and Ubiquitous Computing*, 45078
- Mr. N.V. Naik, Effective Machine Learning Techniques to Detect Fatty Liver Disease 2023 Second International Conference on Electronics and Renewable Systems (ICEARS), 45017 979-8-3503-4665-7
- Mr. N. Srinivasa Rao, Image Segmentation Approaches to Detect Abnormalities in Brain MRI Images using CNN & U-Net 2023 7th International Conference on Computing Methodologies and Communication (ICCMC), 45017 978-1-6654-6408-6

- Mr. Sk. Johny Basha, A Review on IoT-based Defensive Devices for Women Security 2023 9th International Conference on Advanced Computing and Communication Systems (ICACCS), 45047 979-8-3503-9737-6
- Mr. Sk. Johny Basha, Detection and Comparative Analysis of Handwritten Words of Amharic Language to English using CNN-Based Frameworks 2023 International Conference on Inventive Computation Technologies (ICICT), 45078 979-8-3503-9849-6
- Mr. S. Govindu, IoT and Face Recognition based Automated Door Lock System 2023 International Conference on Inventive Computation Technologies (ICICT), 45017 979-8-3503-4665-7
- Mr. T.N.V.S. Praveen, An In-depth Exploration of ResNet-50 for Complex Emotion Recognition to Unraveling Emotional States 2023 International Conference on Advancement in Computation & Computer Technologies (InCACCT), 45078 979-8-3503-9648-5
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- Smart Farming for Agriculture Management Using IOT, 2023 9 th International Conference on Advanced Computing and Communication Systems (ICACCS)G Balu Narasimha Rao, K Venkateswara Rao, Raviteja kamarajugadda, Avuthu Avinash Reddy, P Padmini Rani
- Supervised Machine Learning Strategy for detection of covid19 patients, 2023 International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), S. Hephzi Punithavathi,K. Deepa ,Cheruku Poorna Venkata Srinivasa Rao ,S. Raja Gopal , P. Rajasekar5, Ashok Kumar

Books/Book Chapters:

- P Gandhi Prakash, Published Edited Book Titled “Artificial Intelligence and Its Applications” ISBN: 978-81-933317-9-8 on June 2023.
- D Srinivasa Rao, Published Edited Book Titled “Advanced Java and Its Applications” ISBN: 978-81-936640-9-4 on June 2023.
- A.Pratyush, “Experimental Assessment of Liquid Suction Heat Exchanger Used with Vapour Compression Refrigeration System by the Application of Twisted Strip Inserted Condenser”, Advances in Clean Energy and Sustainability, Green Energy and Technology, https://doi.org/10.1007/978-981-99-2279-6_21.
- Ms. B. Swathi, “Advancement of Deep Learning and its Applications in Object Detection and Recognition” River Publishers, ISBN:9781003393658 on May 2023.
- Veeresh Rampur, Y. Prasanna Kumar, Santanu Das, ShahanawajAhamad, G.NageswaraRao, SushmaJaiswal and Ankur Gupta. “Detection and Analysis of Mental Stress in Online Learning Using IoT Devices”, Nova Science Publishers, Inc.

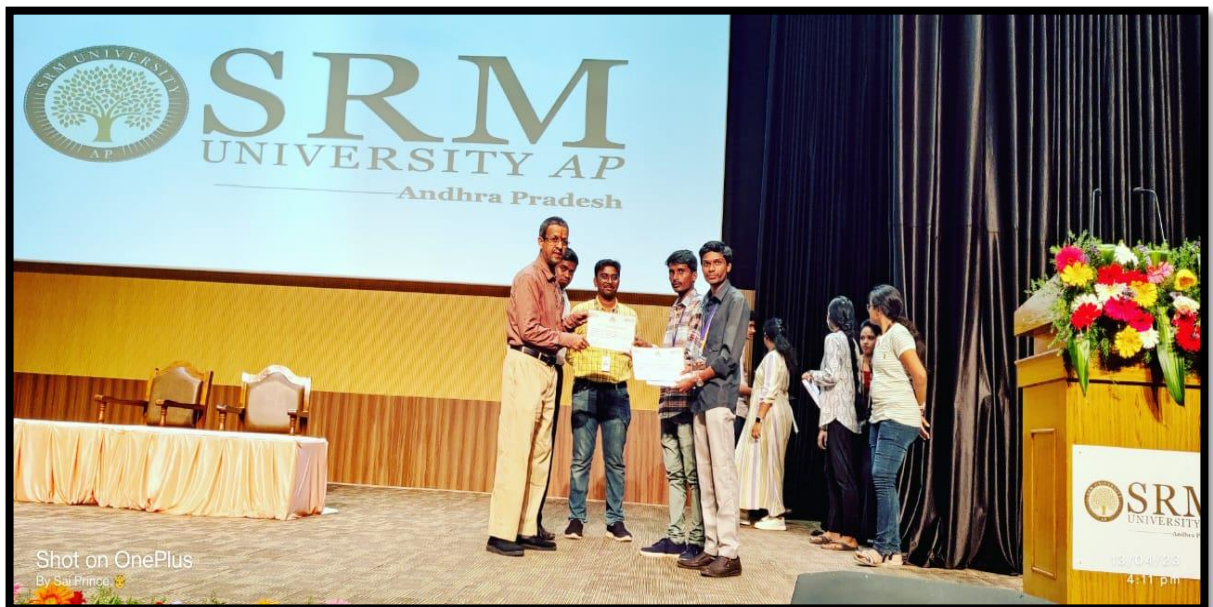
Patents:

- K Sudhakar, “Solar Powered Camera Based Kit for Lead Ions Detection in Water Employing H₂S Gas” Application Patent ID: 202321025271, Country: Indian Patent (IPR), published on 05/05/2023
- K Sudhakar, IoT&Cloud Computing based Hull Mounted Mercury Detector in Sea Water for Fishing Boats Application ID: 20233100812, Country: Indian Patent(IPR). published on 05/05/2023
- B. Udaya Lakshmi, “Design and Fabrication of Multi Functional Air Conditioning Sysytem”

Students' Achievements



K. Sai Venkata Supraja(20761A0430) secured second position in the State Level **APSCH EXCELLENCE AWARDS-2023** in the category of Best Student Award Held on 04-05-2023.



Big Bull 1st prize in SRM University on 12-04-23 & 13-04-23 D.Bharath Lakshman & Sk.Chan basha.

Community Engagement



Dr.K.Harinadha Reddy, Vice-Principal of LBRCE Donating Sports Kit to Mr. M.Sathish kumar , Head Master of MPUP School, Kanimerla Thanda



Dr K.Appa Rao, Principal, Mr J.V.D. Prasad Yoga Teacher. briefing the Importance of yoga in our daily life and its improvement in health on 21st June 2023.



The holiday celebrates the birth anniversary of Babu Jagjivan Ram, NSS unit on 04th April 2023. President Sri. G. Srinivasa Reddy garlanding the Photo of Babu Jagajeevanaram.



NSS Unit of LBRCE celebrated 'Dr.B.R. Ambedkar Birth Anniversary' on 15th April 2023. Dr K. Appa Rao, Principal garlanding to Dr.B.R.Ambedkar Photo.

Extra Curricular & Cultural Activities



Prakruthi Club Organised a Clean & Green & Plantation Drive Activities as a part of Mission Life – Mission Environment Program In Association With NYKS, NCC & NSS. Student volunteers of Prakruthi club, NSS and NCC actively participated in cleaning the campus and educating others on hygiene practices and planting saplings around the campus. Students participating in the clean and green activity under Mission life – Mission Environment program by Prakruthi club in association with NYK, NSS and NCC on 31st May, 2023.



Spoothi – The Literary Club conducted Elocution competition on the occasion of 74 Republic Day Celebrations.

Programs Offered

UG-B.Tech

- Aerospace Engineering
- Artificial Intelligence and Data Science
- Civil Engineering
- Computer Science and Engineering
- Computer Science and Engineering (AI&ML)
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Information Technology
- Mechanical Engineering

PG-M.Tech

- Data Science
- Power Electronics and Electrical Drives
- Thermal Power Engineering
- VLSI & Embedded System Design

PG-Master of Business Administration

Dreams to Destiny

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