



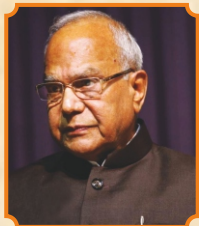
RBU

RAMDEOBABA UNIVERSITY, NAGPUR

Formerly Shri Ramdeobaba College of Engineering & Management (RCOEM) Est. 1984

Learn | Innovate | Accomplish

VISIONARIES



Shri Banwarilal Purohit
Founder & Chairman Emeritus
Former Governor of Punjab, Tamil Nadu
& Assam, Administrator U.T. Chandigarh



Shri Satyanarayanji Nuwal
Chairman, (SRSS)



Shri Rajendra Purohit
General Secretary, SRSS



Dr. Shankar S Mantha
Chancellor



Dr. Rajesh S Pande
Vice-Chancellor

Top News of The Quarter

Swami Raghavendranandji Inspires Unity at RBU's Gyanodaya 2025



"In reality, we are not separate, but united through the thread of universal consciousness. We are essentially one, regardless of gender, caste, or social identity, and that oneness and compassion must form the foundation of one's conduct", articulated Shri Swami Raghavendranandji Maharaj of Ramkrishna Math, Nagpur while blessing the students of Ramdeobaba University (RBU). Through his spiritually uplifting address, he told the students to believe in the divine power as he quoted Swami Vivekananda "Each soul is potentially divine. The goal is to manifest this divinity by controlling nature, external and internal." Shri Raghavendranandji Maharaj advised the students to focus on the purity of mind and body, and practice perseverance.

'Let's Transform India Into A Product Nation', Appeals Dr. Shailendra Deolankar -

"Under the flagship programme of Vikasit Bharat, let's transform India into a product nation. Students are performing assets, and the government is equipping the education sector in the best possible way. You are among the lucky few who are able to procure a seat in a premier institution like RBU, where all facilities are being provided to nurture you," said Dr. Shailendra Deolankar, Director of Higher Education, Government of Maharashtra, while exhorting the newly inducted undergraduate as well as postgraduate students of Ramdeobaba University (RBU), as the Chief Guest of Gyanodaya-25.



RBU, Celebrated National Sports Day 2025 : A Grand Event with More that 200 Participants -

The Department of Physical Education, Ramdeobaba University (RBU), Nagpur, in collaboration with the Physical Education Foundation of India (PEFI) and under the recognition of the Ministry of Youth Affairs & Sports, Government of India, successfully organized AAGAAZ 7.0 – Celebration of National Sports Day on the occasion of birth anniversary of Major Dhyan Chand.



29th August 2025. The celebration was part of the Fit India Movement, aimed at promoting health, fitness, and sporting culture among students. The 10-day sports festival showcased competitions in Table Tennis, Volleyball, Basketball, Chess, Carrom, Muscle Matrix, Tug-of-War, Powerlifting, Box Cricket, and Recreational Activities, and faculty games with enthusiastic participation from students and faculties across the university.

"Transparency and Quality Education Drives RBU's Success," Says Banwarilal Purohit on Foundation Day :

Ramdeobaba University (formerly Shri Ramdeobaba College of Engineering & Management) celebrated its 41st Foundation Day, marking over four decades of excellence in education, innovation, and community service. Virtually addressing the event, Shri Banwarilal Purohit, Chairman and Founder Emeritus, congratulated the RBU fraternity and emphasized the institution's founding values of transparency, ethics, and quality education. Faculty members were felicitated for outstanding achievements in research, publications, patents, and corporate training. The Department of Physics was named Best Performing Department for research, while the Mechanical Engineering Department was recognized for patent contributions. The event was graced by Shri Rajendra Purohit, Shri Kailashchand Agrawal, Dr. S.S. Mantha, Dr. Rajesh Pande, Dr. Manoj Chandak, Dr. S.B. Bodkhe, and other dignitaries.



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Dear Readers,

The July–September 2025 edition of Reflection captures the vibrant spirit of Ramdeobaba University through its academic, research, and co-curricular milestones. This quarter featured inspiring moments such as Gyanodaya 2025 graced by Swami Raghavendra-nandji Maharaj, Felicitation of Alumni and the celebration of National Sports Day, and the university's 41st Foundation Day.

The issue also highlights remarkable achievements of our students and faculty in innovation, research, and community engagement - reflecting RBU's vision of holistic education driven by learning, creativity, and service.

Happy Reading!

- Team Editor



*The great aim of **EDUCATION** is
not **KNOWLEDGE** but action.*

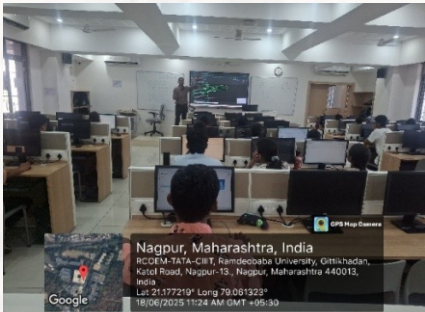


RCOEM-TATA-CIIIT Center for Invention Innovation Incubation & Training

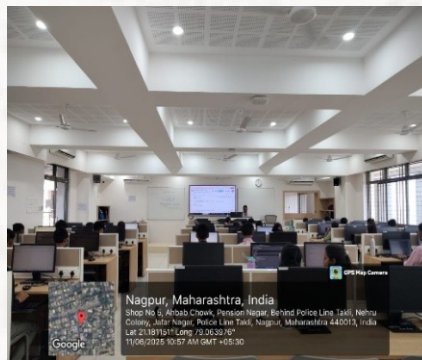
[A] Training Programs :

1] A one-month internship program on “Machine Learning” was conducted from June 1, 2025, to July 28, 2025, for students of Electronics & Telecommunication of St. Vincent Pallotti College of Engineering and Management, Nagpur, from 10:30 am to

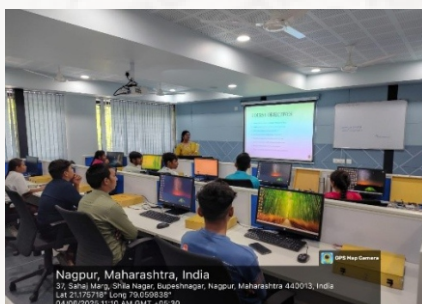
5:30 pm, held at RCOEM-TATA-CIIIT. A total of 21 students participated, and the internship was given by Dr. Amit Pimpalkar, Dr. Nisarg Gandhewar, and technical assistants Mr. Shubham Prasad and Mr. Utkarsh Gupta.



2] A three-month internship program on “Internet of Things (IoT), Machine Learning (ML), Embedded System, Python Programming, and Robotics” was conducted from 2nd June 2025 to 31st Aug 2025 for students of Electronics & Telecommunication of Government Polytechnic, Gondia, from 10.30 am to 5.30 pm, held at RCOEM-TATA-CIIIT. A total of 11 students participated, and internships were given by Dr. Amit Pimpalkar, Dr. Nisarg Gandhewar, Dr. Chitraja Rajan, Dr. Yogesh Joshi, and Technical Assistant Mr. Umendra Mukurne. The certificate distribution ceremony was held on August 30th, 2025, at 11 a.m. The certificates were issued to all participants at the hands of



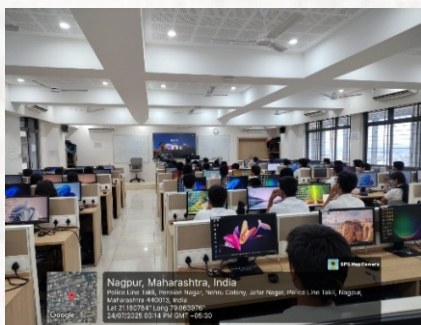
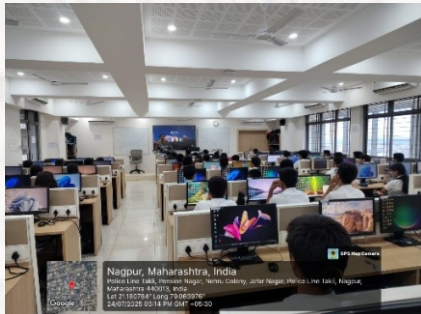
Hon. VC of RBU, Dr. Rajesh Pande, and Director of TBI, Dr. Rupesh Pais, and Former Dean of III Cell, Dr. Rajiv Khaire in the presence of Mrs. Gedam, Mrs. Raut, faculty members from Gov. Polytechnic, Gondia, and Mrs. Padwekar from Gov. Polytechnic Nagpur. Three students gave encouraging feedback about the course.



3] A three-day training program on “Artificial Intelligence & Machine Learning (AIML)” was conducted from 15th, 16th, 17th July 2025 for 10th std. students of Bhavan's Vidya Mandir School, Srikrishna Nagar, Nagpur, from 10.30 am to 5.30 pm, held at Digital Tower in association with the RCOEM-TATA-CIIIT. A total of 203 students participated, which was conducted by Dr. Amit Pimpalkar, Dr. Nisarg Gandhewar and Dr. Khushboo Khurana. The event was coordinated by Dr. Y. M. Sonkhaskar. 4-5 students gave encouraging feedback about the course.



4] A one-day training program on “Artificial Intelligence & Machine Learning (AIML)” was conducted on 24th July 2025 for 11th std. students of Bhavan's Vidya Mandir School, Srikrishna Nagar, Nagpur, from 10.30 am to 5.30 pm, held at Digital Tower in association with the RCOEM-



5] A One day training program on “Artificial Intelligence & Machine Learning (AIML)” was conducted on 24th and 25th July 2025 for 10th std. students of Bhavan's Vidya Mandir School, Ashti, Nagpur, from 10.30 am to 5.30 pm, held at Digital Tower in association with the RCOEM-TATA-CIIT. A total of 111 students participated, which was coordinated by Dr. Amit Pimpalkar and Dr. Pravin



TATA-CIIT. A total of 17 students participated, which was conducted by Dr. Amit Pimpalkar and Dr. Nisarg Gandhewar. The event was coordinated by Dr. Y.M. Sonkhaskar, 4-5 students gave encouraging feedback about the course.



Sonsare for Artificial Intelligence and Machine Learning, and Dr. Nisarg Gandhewar has demonstrated and supported staff, Mr. Utkarsh Gupta. The event was conducted by Dr. Y.M. Sonkhaskar, Dr. Nisarg Gandhewar, Dr. Amit Pimpalkar, and Dr. Pravin Sonsare. 4-5 students gave encouraging feedback about the course.



6] A One day training program on “Artificial Intelligence & Machine Learning (AIML)” was conducted from 30th July to 1st August 2025 for 10th std. students of Bhavan's Vidya Mandir School, Koradi, Nagpur, from 10.30 am to 5.30 pm, held at Digital Tower in association with the RCOEM-



7] A One day training program on “LibreOffice Suite for the subject IT” was conducted from 31st July to 1st August 2025 for 10th std. students of Bhavan's Vidya Mandir School, Ashti, Nagpur, from 10.30 am to 5.30 pm, held at Digital Tower in association with the RCOEM-TATA-CIIT. A total of 77 students participated, which

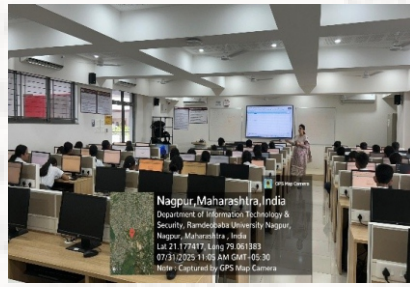


TATA-CIIT. A total of 156 students participated, which was conducted by Dr. Amit Pimpalkar, Dr. Khooshboo Khurana and Dr. Nisarg Gandhewar. The event was coordinated by Dr. Y. M. Sonkhaskar. 4-5 students gave encouraging feedback about the course.



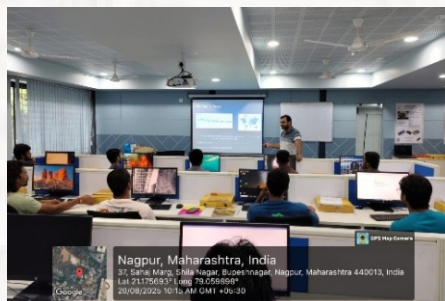
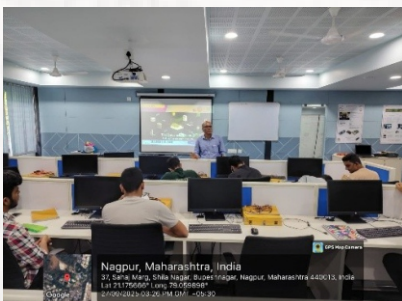
was conducted by Dr. Rakesh Kadu and Dr. Jaya Nanwani for the LibreOffice Suite for the subject of IT, and Dr. Ashish Chandak has demonstrated and supported staff, Mr. Akshay Ramteke. The event was coordinated by Dr. Y.M. Sonkhaskar. 4-5 students gave encouraging feedback about the course.





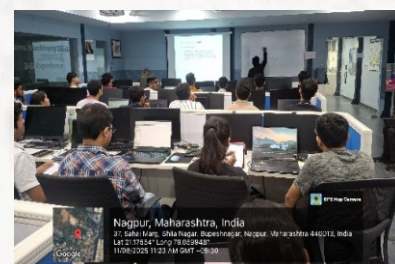
8] A One-Month Internship Program on “**Internet of Things (IoT)**” commenced on August 20, 2025, for the students of Mechanical Engineering of RCOEM, Nagpur. The sessions are scheduled daily from

4:30 pm to 5:30 pm at RCOEM-TATA-CIIT. A total of 17 students are participating in this program, which is being conducted by **Dr. Shubham Anjankar** and **Mr. Umendra Mukurne (Technical Assistant)**.



9] A **Three Days training** program on “**Computation Fluid Dynamics**” was conducted from 11th August to 15th August 2025 for students of Mechanical Engineering of RCOEM, Nagpur, from 10.30

am to 5.30 pm, held at RCOEM-TATA-CIIT. A total of 30 students participated and training was conducted by Dr. V.V. Shukla, Dr. Yogesh Joshi and Dr. A.B. Kose.



[B] Consultancy & Project :

During September, 2025, Sandeep Metal Craft Pvt. Ltd. MIDC, Hingna, successfully printed 3D components for Défense applications using a 3D software design model.



[C] Lab Utilization :

- Dr. Vishal Shukla utilized the IoT Lab for conducting laboratory sessions on IoT (Internet of Things) for the 7th Semester Mechanical Engineering students from July to September 2025.
- Mr. Ronit Vegad and a team of First-Year students from the RAI Department utilized the Machine Learning Lab for the Smart India Hackathon (SIH) project under the guidance of Dr. Mangesh Joshi in September, 2025.
- Ms. Shreya Barde and her team from 7th Semester Biomedical Engg utilized the Laser Cutting and Engraving Machine for their project work under the guidance of Prof. Jitendra Zalke in August, 2025.
- The DMEE Lab at the Design Center (CIIT) was utilized by Mechanical Engineering students from August 8, 2025 onward, including Batch A1, Batch B2, and Batch B3.
- Mr. Rajat Moon, Ms. Komal Borkar, and Mr. Rohan Gurharikar, students of 7th Semester Mechanical Engineering, utilized the Machine Learning Lab in September 2025.





4] Visit of Eminent persons to RCOEM-TATA-CIIT :



Dr. Shailendra Deolankar, Director Higher Education Govt. of Maharashtra



Mr. Satish Jha 1990 Mining Engineering and Mr. Harish Duhan 1989 Mining Engineering



Visit of PCE, Nagpur Students



Visit of TGPCET, Nagpur Students



Visit of TGPCET, Nagpur Students



Department of MBA students visit at CIIT



*The goal is to create a
"skilled workforce to cater to current and future
industrial landscape of the region"*



School of Computer Science and Engineering Sciences

Department of Computer Science and Application

Academic Achievements

Research & Publications

Publications in high-impact journals :

Authors, Paper title, published in journal

1. Authors: Rakesh K. Kadu, Arpita Parakh, Ashish Awate b, Sampa Manorajan Barman, Dhiraj P. Tulaskar, Madhusudan B. Kulkarni
Paper title : Artificial intelligence and machine learning for colorimetric detections: Techniques, applications, and future prospects.
serviceability using multi-method computational intelligence process, published in Journal : Asian Journal of Civil Engineering
2. Authors: Rakesh K. Kadu, D. Karunkuzhali, Krishna Prakash Arunachalam, Raja Ramamoorthi
Paper title : Cyber-physical system for enhanced WSN-IoT security using spherical graph triple convolutional neural network with planet optimization algorithm
6. Author: Dr. Sachin Upadhye
Paper title: Optimization and predictive performance of fly ash-based sustainable concrete using integrated multitask deep learning framework with interpretable machine learning techniques. Published in Journal: Scientific Reports on 21 August 2025.
3. Authors: Rakesh K. Kadu, Dr. N. Venkateswaran, Dr. M. Vamsikrishna, Dr. Kantilal Rane, Dr. L. Malathi
Paper title : Application of Augmented Reality (AR) in Dental Hygiene Training : A Study on Technology Adoption and Learning Management Systems
7. Dr. Satyajit S. Uparkar and et.al. published a paper entitled, "Life cycle assessment and multicriteria decision making analysis of additive manufacturing processes towards optimal performance and sustainability", in Scientific Reports , DOI : <https://doi.org/10.1038/s41598-025-92025-5>, published on 11/07/2025 (Scopus Indexed)
4. Authors: Manda Ukey, Vaishali Mendhe, Shradhesh Marve, Lowlesh N Yadav, Anuradha S Bodhe, Ramakant S Ingole, Tejas R Patil, Nischal Puri, Rohit Pawar, Pranita S Bhandari
Paper title: Multi-objective optimization for sustainability - based design of non-prismatic reinforced concrete structures, published in Journal: Asian Journal of Civil Engineering
8. Dr. Satyajit S. Uparkar and et.al. published a paper entitled, "Design and implementation of secure cryptographic algorithms for wireless sensor networks in healthcare applications", in Journal of Discrete Mathematical Sciences & Cryptography, DOI: 10.47974/JDMSC-2172, published on 30/08/2025 (Scopus Indexed).
5. Authors: Manda Ukey, Nischal P Mungle, Dnyaneshwar M Mate, Sham H Mankar, Sarang Pande, Tejas R Patil, Nisha Gongal, Mona Mulchandani
Paper title : Bi-level optimization of composite floor systems integrating fire resistance and vibration

"The best way to predict the future is to invent it."

• Conference, Events & Seminars Organised Workshops, Seminars, Guest Lectures

1. A financial literacy workshop titled "Pratham" was conducted by Dr. Kanchan Naidu, a SEBI SMART Trainer, on 6th Oct 2025 for MCA students, RBU, Nagpur, under the banner of the National Stock Exchange (NSE). The objective of the workshop was to create awareness among the students about the importance of savings and to help them avoid falling prey to fraudulent or Ponzi schemes. Participants were guided on how to evaluate different asset classes based on individual financial goals, where to invest and save wisely, and how to build a habit of financial discipline. The interactive session was well-received by all attendees and concluded with an engaging Q&A session, where participants clarified their doubts and shared their experiences. The workshop received great appreciation for its practical insights and valuable guidance.



Dr. Kanchan Naidu conducting financial literacy workshop



MCA students attending financial literacy workshop

2. Seminar Resume Rewiring

The Department of Computer Science and Applications, Ramdeobaba University, conducted an interactive session titled "Rewiring Resume – Crafting the Narrative of Your Achievements" on 13th September 2025 for MCA and BCA Semester III students. The seminar was led by Mr. Satyam Singh Rajput, Talent Advisor at Shell, who guided students on building impactful resumes by focusing on achievements, storytelling, and professional presentation. The event saw active participation and was highly appreciated for its relevance to upcoming placements.



Dr. R. Kadu felicitating Mr. Satyam Singh Rajput

3. Nirman Social Awareness activity

The Department of Computer Science and Applications, Ramdeobaba University, organized a seminar in collaboration with NIRMAN Search on 13th September 2025 at the Electronics Block Seminar Hall. The session was conducted by Mr. Prathamesh Dhadse, who inspired students to reflect on their purpose and explore ways to create meaningful social impact. Around 150 students participated enthusiastically and gained valuable insights into NIRMAN's youth development programs and opportunities for personal and professional growth.



Mr. Prathamesh Dhadse conducting seminar

4. The Department of Computer Science & Applications, RBU, Nagpur, successfully organized the Alumni Meet 2025 on 30th August 2025. The event witnessed enthusiastic participation from 18 alumni from batches 2016 to 2023, along with all faculty members and selected students of the MCA and BCA programs. The session commenced with a formal welcome of dignitaries and alumni. The dais was graced by Dr. R. Kadu, Head of Department (HOD), Dr. P. Voditel, Dr. R. Hablani, Prof. P. Khandar, Alumni Coordinator & a few prominent alumni — Mr. Gaurav Muley, Mr. Aditya Gadhave, Mr. Dhananjay Vaidya, Mr. Izhan Khan, shared their professional journeys, experiences and valuable guidance for the students. Their motivating speeches encouraged students to focus on skill-building, adaptability, and leveraging networking opportunities.



Alumni interacting with students during Alumni Meet

Department hosted competitions or fests

1. Poster Presentation Competition

The Department of Computer Science and Applications, Ramdeobaba University, organized a Poster Presentation Competition on 13th August 2025. The event aimed to encourage creativity and awareness among students through artistic expression on social and academic themes. A total of 6 teams enthusiastically participated, each comprising 3 to 5 members. The competition was judged by Dr. S. Uparkar, Dr. P. Karmore, and Dr. R. Habalani, who evaluated the posters based on creativity, theme relevance, and presentation. The event concluded with appreciation for the students' efforts and a message promoting positive campus culture and teamwork.



Faculty members judging poster presentation competition

Departmental contributions to university-wide events

1. Smart India Hackathon 2025 Nomination

Team Utkala Heritage from the MCA Department has been nominated for the Smart India Hackathon 2025 at the University Central Level. The team comprises Vinay Chalsani (Team Leader), Sejal Kashyap, Pooja Behura, Sanchali Dhote, Dewang Dhengare, and Suraj Raut.

Department Conferences Hosted

Conferences/ STTP/ FDP/MDP/Workshop/Seminar etc attended or organized by faculty

1. Prof. Pragati Dubey and Prof. Achal Rokade have attended 2 FDP : Introduction to machine learning (NPTEL), 8 week (from Jul to Sept 2025)
2. Prof. Bindiya Turkar has attended FDP from Apr to July 2025 organized by NPTEL/SWAYAM and Online FDP from 6th Oct 2025– 10th Oct 2025 organized by Vishwkarma Institute of Technology.
3. Dr. Shubhangi Mohod has attended FDP on “Generative AI and DevOps” organized by E&ICT Academy IIT Guwahati held from 6-10 October, 2025.
4. Prof. Vidhi Pitroda has attended workshop Systematic Literature Review and Bibliometric Analysis using R Studio & VOS viewer conducted by Comma cad.
5. Dr. Sachin Upadhye has presented a research paper titled " Integrating CNN-LSTM and Hybrid Machine Learning for Lung Cancer Prediction based on Air Quality " in IEEE 8th International Conference on Computing Methodologies and Communication (ICCMC 2025) organised by Surya Engineering College, Eroda, India on 23-25 July 2025.

Faculty Highlights

Promotions, awards, Ph. D. awarded or honors

1. Dr. Yoginee S. Pethe has been awarded Ph.D. in Computer Science and Engineering, from KIIT, Bhubaneshwar dated 23rd Sept., 2025.



Dr. Yoginee S. Pethe receiving the Ph.D. Degree

2. Dr. Yoginee S. Pethe has been awarded Best Teacher Award in recognition of consistently good feedback for the session 2024-25, during the Foundation Day Program dated 10 Sept., 2025.



Dr. Yoginee Pethe receiving the Best Teacher Award

3. Prof. Aparna Gurjar has been awarded Best Teacher Award in recognition of consistently good feedback for the session 2024-25, during the Foundation Day Program dated 10 Sept., 2025.



Prof. Aparna Gurjar receiving the Best Teacher Award

4. Dr. Sachin Upadhye, got research publication award for the year 2024-25 during the Foundation Day Program dated 10 Sept., 2025. He published a total of 7 Scopus / SCI papers in different journals.



Dr. Sachin Upadhye receiving the research publication award

Faculty invited for - Keynote speeches / Guest lectures / STTP / FDP / Others

1. Dr. Sachin Upadhye conducted a guest lecture on the topic "Predictive Analytics in Healthcare using Machine Learning" dated 13 September 2025 in Suryodaya College of Engineering and Technology, Nagpur.
9. Dr. Sachin Upadhye conducted a guest lecture on the topic "Block Chain Technologies" dated 25 July 2025 in Tripude Institute of Management, Nagpur.

Student Achievements

Internships or placements secured

MCA Placement statistics :

Year-wise Statistics	2021-22	2022-23	2023-24	2024-25	2025-26
Internship Percentage	48%	54%	62%	59%	4% (Ongoing)
Total No. of Students	122	119	120	119	192
Total Placed students	111	103	102	99	22
Placement Percentage	91%	87%	85%	83%	11.46
Highest Package in LPA	10	12	16	12	8
Lowest Package in LPA	1.5	1.8	1.8	1.8	1.8
Average Package in LPA	4.95	4.23	4.86	3.83	3.8
Median Package in LPA	4.6	4.0	4.6	3.60	3.60
Highest Stipend in LPM	12000	15000	35000	25000	22000*
Total Companies Visited	16	19	18	16	12 (for internship)

Departmental Activities

Parents Meet

Parents - teachers meet was conducted by the Department of Computer Applications on 20th September 2025 for Semester-3 students, 10:30 am onward.

Parents of 5 MCA(AI&ML) students and parents of 6 BCA students attended the meet. The main objective of this meet was to get the feedback from parent regarding the teaching learning process being followed by the Department of Computer Science and Applications, get useful suggestions from them and also convey their ward's academic performance as well as college attendance.



Dr. R. Kadu, Head CSA, interacting with the parents



Class teachers interacting with the parents

School of Electrical and Electronics Engineering

Department of Electrical Engineering

Research & Publications

Publications in high-impact journals: Author, Paper Title, Published in Journal

1. Research paper by Preeti Kapoor, Sonali Rangari, Gaurav Goyal, Pragati Shrivastava Deb, Mohan Renge titled "Power Loss Analysis of SHE-PWM Controlled Modified Modular Multilevel Converter", is published in "International Journal of Engineering Trends and Technology, Volume 73 Issue 7, 127-137, July 2025, ISSN: 2231-5381 (SCOPUS Indexed -Journal)
2. Research paper by Sneha Tibude, G.N.Goyal, S.B.Bodkhe, Alok Ranjan titled "Concerning Energy Management and Optimization Strategies: Deep dive into Electric and Hybrid Vehicles: Implicit framework of machine learning, hybrid energy systems, and thermal control" in Computers and Electrical Engineering during July 2025. (SCIE Indexed Journal)
3. Research paper by Gaurav Goyal titled "Adaptive Smart Grid Fault Detection and Prevention in Urban IoT Networks Using AI and Neuro-Blockchain Integration" is published in in Journal of Electrical Engineering & Technology E-ISSN: 2093-7423 during August 2025(SCIE Indexed Journal)
4. Manisha Gaikwad, Siddharth Chawre, Uday B. Mujumdar presented paper on "Development of Controller for Sensor Less Switched Reluctance Motor Drive Using Generic Microcontroller." in 6th IEEE India Council International Subsections Conference INDISCON 2025, organised by IEEE Rourkela Subsection and IEEE India Council, NIT Rourkela from 21st August to 23rd August 2025.

5. Preeti V. Kapoor, Anish Bhalerao, Uday B. Mujumdar, presented paper on "Challenging Complexity: Linear Huber Regression for Accurate and Scalable Solar PV Forecasting", in 2nd international conference on Sustainable Power and Energy Research ICSPER-2025 (online mode) jointly organized by the Department of Electrical Engineering, NIT Srinagar and NIT Warangal during July 11-12, 2025.
6. Preeti V. Kapoor, Gaurav S. Kumbhare, Uday B. Mujumdar, presented paper on "Voting - Based Ensemble Learning for Induction Motor Fault Detection and Streamlit Visualization", 2nd international conference on Sustainable Power and Energy Research ICSPER-2025 (online mode) jointly organized by the Department of Electrical Engineering, NIT Srinagar and NIT Warangal during July 11-12, 2025.

Conference, Events & Seminars Organised

Workshops, Seminars, Guest Lectures

Guest lecture on "Getting Good Internship and Placement in Industry"

A guest lecture on "Getting Good Internship and Placement in Industry" was organized by the Department of Electrical Engineering under EESA on 05th August 2025. The session aimed to guide students on how to prepare effectively for securing industry internships and successful placements.

The session was delivered by Mr. Amol Pusadkar, Director, Prodeskon Consulting Pvt. Ltd (Software Company) who shared valuable insights on internship opportunities, resume building, interview preparation, and professional skill development. The speaker also emphasized the importance of maintaining discipline, communication skills, and continuous learning for career growth.

Students of second-year and third-year Electrical Engineering actively participated in the session and clarified their queries related to internship procedures, company expectations, and job readiness.

The lecture provided to the students with a clear understanding of how to approach

reputed organizations for internships and placements, and how to present themselves as capable and confident candidates.

The session was well appreciated by all participants. The department expressed sincere gratitude to the speaker for delivering an informative and motivating session.



Glimpse of Guest Lecture

Guest lecture on Design and Analysis of Photovoltaic Systems : Concepts, Tools and Standards

A guest lecture on "Design and Analysis of Photovoltaic Systems: Concepts, Tools and Standards" was organized by the Department of Electrical Engineering on 26th August 2025 on online zoom platform for the second- and third-year students. The session was conducted by distinguished alumni Ms. Aditi Katyarmal, Project Engineer at Agile Consulting Engineers, Australia, 2018 alumnus from electrical department who shared her valuable experiences and insights on the following agenda.

Aim of the session was site assessment and solar resource analysis (GHI data, PSH calculations, tools like Google Earth Pro, NIWE SRRA, NASA POWER). Load assessment and energy storage (hourly demand profiles, battery sizing examples). PV system design and component selection as per MNRE, CEA, and

Indian standards (including practical sizing examples). Performance modelling and economic analysis (Helioscope, PVsyst, SAM, and key metrics such as PR, CF, and LCOE benchmarks in India). Conclusion with deliverables like simulation reports, financial models, and risk assessment, as well as next steps for students (advanced coursework, 100 kW rooftop design project, NABCEP/MNRE certifications). The session was successfully conducted and students got insight on strategic roadmap to solar career success.



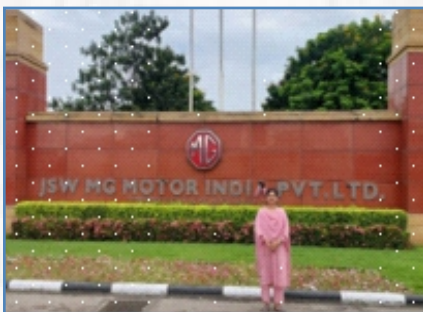
Conferences / STTP / FDP / MDP/ Workshop / Seminar etc attended or organized by faculty

Industrial Training by Prof. (Mrs) M. B. Gaikwad at JSW MG Motor India Pvt. Ltd

Prof. (Ms.) Manisha B. Gaikwad, Assistant Professor in Electrical Engineering Department, RCOEM, Nagpur participated and get qualified as a teaching faculty in CAEV: Connected, Autonomous and Electric Vehicle course combined with Artificial Intelligence introduced by JSW MG Motor India Pvt. Ltd. under the MG Nurture Program for Technical Institutions (MoU), held at the Halol Plant in Vadodara, Gujarat, from 18th to 23rd August 2025. The sessions covered topics such as EV components like battery, converters, motors, vehicle component cyber security, the role of embedded systems in EVs, an overview of AI technology, artificial neural

networks and computer vision, fundamentals of Advanced Driver Assistance Systems (ADAS), and security measures in V2X communication and included a plant visit.

Additionally, the Employability Skill Development Program training was conducted from 25th to 30th August 2025. This program focused on training faculty to guide students in developing essential soft skills, including effective communication, email etiquette, telephone etiquette, and grooming etiquette. Both programs provided valuable insights beneficial for academic and research activities at our institution.



Faculty Highlights

Promotions, awards, Ph. D. awarded or honors

1. Prof. Ashish A. Dongre successfully defended his doctoral thesis titled "Investigation on Six-Switch and Nine-Switch Multi-functional Power Converters for Power Quality Improvement in Grid Interactive PV System" from the Department of Electrical Engineering the National Institute of Technology (NIT) Silchar under the guidance of Dr J.P.Mishra. His research work focuses on the development of advanced multi-functional power converter topologies and their control strategies to enhance power quality in grid-interactive photovoltaic (PV) systems. This research contributes toward achieving higher efficiency, improved reliability, and seamless integration of renewable energy into modern smart

grids. During his Ph.D. tenure, Prof. Dongre has authored over 15 research papers in reputed international journals and conferences, showcasing the depth and impact of his scholarly work.

2. Prof. M. B. Gaikwad received Certificate of Appreciation for serving as a Reviewer in 6th IEEE India Council International Subsections Conference INDISCON 2025, organised by IEEE Rourkela Subsection and IEEE India Council, NIT Rourkela from 21st August to 23rd August 2025.

Internships or placements secured

Following students of VII semester Electrical Engineering received Placement offers from reputed companies:

- Kammya Pardhi and Ishika Choudhary got placed in Schneider Electric with a package of 12 LPA.

- Vedant Pande and Kammya Pardhi got placed in Johnson Control with a package of 5.5 LPA.
- Part Londase, Bhavika Nagpure, Ritika Mishra and Vaibhavi Gaherwar got placed in Torrent Power at a package of 5 LPA

Departmental Activities

1. Orientation Program

An orientation program for III semester B. Tech students was organized on 14th July 2025 in the department. Prof. M. B. Gaikwad, the class teacher, hosted the event. The HoD(EE), Dr. U. B. Mujumdar made the students aware about the institute and department vision and mission and role of students in its attainments. He discussed the Program Education Objective (PEO) of Electrical Engineering and its importance.

Also, he shared information about the curriculum, evaluation process and the other academic provisions. He enlightened the students about various activities of EESA, special provision of academic flexibility like MOOC, Open Elective and Honour/Minor scheme of the college, six weeks and six months internship, training and placement drive in detail etc. He emphasized the need for sincerity of students in terms of attendance, interaction, career-oriented planning and its implementation.



Glimpse of the Orientation Program

2. Value added Course on "Machine Learning for Engineering Application"

Department of Electrical Engineering has conducted 38 hours of value added course on "Machine Learning for Engineering Application" from 15th July 2025 to 12th August 2025.

Dr. Preeti V. Kapoor and Prof. Ameya Saonerkar coordinated the course. Mr. Sikandar Ansari,

Associate Consultant TCS Nagpur was the industry resource person. The course is focused on fundamental concepts of python, data analytics with machine learning and engineering applications. Total 29 students from different departments successfully completed the course and were given course completion certificates. The student's feedback was excellent expressing satisfaction about the course contents, delivery and knowledge gained.



Glimpse of Value Added Course

3. Installation of Electrical Engineering Students' Association (EESA), IEEE PES & IELS Joint Student Chapter, and the Entrepreneurship Development Cell

The Installation of office bearers of Electrical Engineering Students' Association (EESA), IEEE PES & IELS Joint Student Chapter, and the Entrepreneurship Development Cell of Electrical Department was organised on 13th September 2025. Mr. Sachin Talewar, Director (Projects), Maharashtra State Electricity Distribution Company Limited (MSEDCL) and the distinguished alumnus of 1992 batch was the Chief guest.

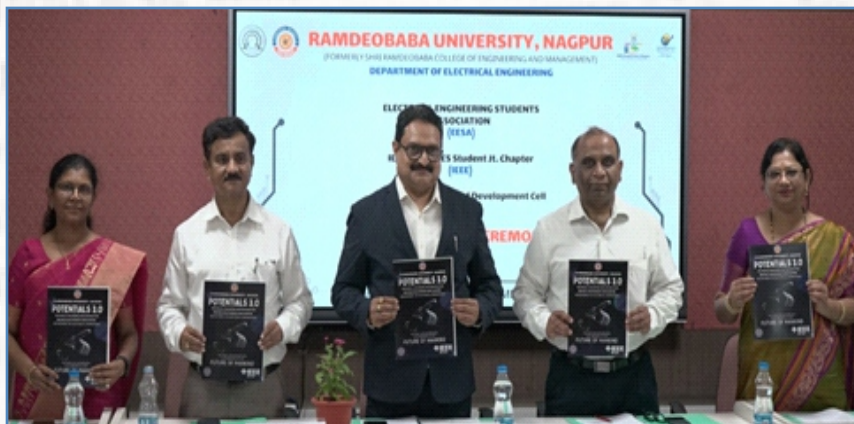
During the program, Mr. Talewar installed the newly elected student teams of Electrical Engineering Students' Association (EESA), IEEE PES & IELS Joint Student Chapter, and Entrepreneurship Development Cell. He also unveiled the technical news magazine "Potentials".

On the occasion, Dr. Sanjay Bodkhe, Registrar, Ramdeobaba University and Dr. Uday Mujumdar, Head of the Department of Electrical

Engineering, guided students on the importance of co-curricular activities and student societies in overall personality development.

Earlier, Mr. Talewar, was felicitated by Mr. Rajendra Purohit, General Secretary, Shri Ramdeobaba Sarvajanic Samiti, and Dr. S. S. Mantha, Chancellor, Ramdeobaba University.

The event was successfully organized by Mr. Purn Kathalewar, Mr. Parth Londase, and Mr. Shrikrishna Rotkar, along with other student office bearers, under the guidance of faculty advisors Dr. V. A. Huchche and Dr. M. V. Palandurkar, and faculty members of the department.



4. Visit to 765kV Power-Grid Substation- Deoli, Wardha

The Department of Electrical Engineering organized an Industrial visit for the students of fifth and seven semester Electrical Engineering to the 765 kV Power Grid Substation, Deoli (Wardha), Maharashtra on 20th September 2025.

The purpose of this visit was to bridge the gap between theoretical knowledge and practical exposure in the field of power transmission and distribution and to provide students with practical insights into the functioning of an Extra High Voltage (EHV) substation, understand the layout, operation, and protection system of a 765/400/220 kV substations.

During the visit, students got insight about the role of Power Grid Corporation of India Limited (PGCIL) in the national transmission network, got exposure to modern control, automation, and communication technologies used in High voltage substations.

The visit was organized by Dr. P. A. Salodkar and was accompanied by Dr. M. V. Palandurkar, Dr. V. A. Huchche and Dr. Shankarshan Tiwari. Around 52 students of both V Semester and VII semester joined the same. The Divisional General Manager of Power-grid substation, Shri Shripad Kolte and other officers extended their cooperation to make the visit very informative to the students.



Glimpse of Power Grid Visit

5. Parent-Teacher Meet

The parent-teacher meeting of III, V and VII semester students was held on 20/09/2025 (Saturday) at 11:00 am in the Electrical Engineering, Department.

The purpose of PTM was to update the parents about the academic performance and personal development progress of their wards. HoD, Dr. U. B. Mujumdar, Dr. S. C. Rangari, PTM Coordinator and the class teachers Prof. M. B. Gaikwad and Dr. P. V. Kapoor welcomed all parents.

Head of the department along with course coordinators were available for interaction with Parents. Class teachers provided a comprehensive overview of students' academic performance in unit test1, Teachers assessment, theory/Lab attendance and areas for improvement. Concerns related to student attendance and punctuality, emphasizing the need of consistent attendance has been informed to the parents. HoD appealed parents to motivate students for regular class attendance.



Department of Electronics and Communication Engineering

Departmental Highlights :

Research & Publications

- Dr. S.B. Pokle, Suhas kakde, "Optimizing Beamforming in Massive MIMO Systems Using Machine Learning Approaches : A Comprehensive Review" International Journal of Electrical and Electronics Research (IJEER) Open Access, Volume 13, Issue 3, Pages 515-523, e-ISSN: 2347- 470X, Published: 30/09/2025; FOREX Publication, (SCOPUS Index) , Web page - link: <https://ijeer.forexjournal.co.in/archive/volume-13/ijeer-130316.html>.
- Dr. Rohini Ochawar and Snehal Laddha, "Feature-Driven EnsembleX: An Advanced Ensemble Framework for Enhanced MRI Abdomen Image Classification Using Feature Refinement and Boosting Techniques" in IEEE Access, July 2025, DOI: 10.1109 / ACCESS.2025.3584785. (SCI Indexed, Academic Year 2025–26).
- Dr. Rohini Ochawar, Ms. Apeksha Sonare, Mr. Maruf M. Ali, and Mr. Hitesh Mishra "A Deep Learning Method for Precisely Forecasting Dust Buildup on Solar Panels" at the IEEE International Conference on Artificial Intelligence and Emerging Technologies (ICAJET-2025), organized by the School of Computer Science & Engineering, XIM University, Bhubaneswar, India, held during 28th–30th August 2025. The paper is published in IEEE Xplore and indexed in Scopus. (Academic Year 2025–26).
- Dr. (Mrs.) Mridula Korde, "Design of an Improved Model for Night Vision Surveillance Using CFMTAN and UG-PSME with Context-Aware Threat and Patrol Intelligence Scenarios" in 6th International Conference for Emerging Technology" (INCET-2025).
- Dr. P. R. Selokar, "An optimization strategy for portfolio management leveraging deep reinforcement learning for automated stock trading" in the Journal of Information

- and Optimization Sciences, Print ISSN: 0252-2667, Online ISSN: 2169-0103, Volume 46, 2025, Issue 4-B, pp 1177~1187, DOI : <https://doi.org/10.47974/JIOS-1901> (WoS indexed / ESCI)
6. Dr. Pradip Selokar, "Hybrid CNN with Attention-Based Feature Fusion for Lung Disease Detection from Respiratory Sounds using Class-Balanced Optimization," in Journal of Theoretical and Applied Information Technology, Vol. 103, No. 13, pp. 4838–4849, July 2025, ISSN: 1992-8645. (Scopus Indexed, Academic Year 2025–26).
 7. Dr. Pradip Selokar, "A Comprehensive System for Pothole Detection and Driver Alert," in International Journal of Basic and Applied Sciences, Vol. 14 (SI-2), pp. 225–232, August 2025, ISSN: 2227-5053, DOI : <https://doi.org/10.14419/x6gv3149>. (Scopus Indexed, UGC CARE List Group II, Academic Year 2025–26).
 8. Ankita H. Harkare, Mahesh P. Abegaonkar "A Compact Wideband Circularly Polarized High Isolation X-Band MIMO Dielectric Resonator Antenna" in Microwave and Optical Technology Letters. 2025 Jun;67(6):e70275. – Sci-E
 9. S. Tiwari, J. Sengupta, Bhumika Neole, Ankita H. Harkare, "Magic matrix-based discrete phase shifts allocation in RIS-assisted downlink NOMA system", in Physical Communication. 2025 Jun 11:102725. – Sci-E
 10. Ankita H. Harkare, I Patne, A Jain, K Bobade, AA Bhurane, A G Kothari. "Performance Comparison of single and 2 element MIMO dielectric resonator antenna and their optimization using machine learning algorithms for sub 6 GHz frequency" in AEU-International Journal of Electronics and Communications. 2025 Jun 3:155872. – Sci-E
 11. Prof. Puja S. Agrawal and Ms. Ritika Chouksey, "AI-Integrated Smart Greenhouse Monitoring and Control Using Cisco Packet Tracer and MATLAB-Based Framework" at the Sixteenth International Conference on Computing, Communication and Networking Technologies (ICCCNT 2025), held at IIT Indore, Madhya Pradesh, from 5th to 11th July 2025.
 12. Ms. Puja S. Agrawal, Mr. Vandan Sharma, and Ms. Ritika Chouksey, "IoT-Enabled Smart Greenhouses: Reinforcement Learning, Predictive Modelling, and Disease Detection for Enhanced Crop Yield" at the International Conference on Information, Implementation, and Innovation in Technology (I²ITCON-2025), organized by the IEEE Pune Section and Hope Foundation's International Institute of Information Technology (I²IT), Hinjawadi, Pune, held on 4th–5th July 2025. The paper was published in the IEEE Xplore digital library. (Academic Year 2025–26).
 13. Mr. Nitin Chakole, "Optimal Energy Management for Hybrid PV-Wind-Battery Microgrids through Markov Decision Processes Technique" in the International Journal of Smart Grid, Vol. 9, Issue 3, pp. 127–145, September 2025, ISSN: 2602-439X, DOI: 10.20508/ijsmartgrid.v9i3.379.g401. (Scopus Indexed, Academic Year 2025–26).
 14. Mr. Nitin Chakole, "Mathematical Modelling of Nonlinear Approach in Video Compression for Telecommunication" in Utilitas Mathematica Publishing Inc., Vol. 122, Issue 1, pp. 580–594, September 2025, ISSN: 3153-681. (Scopus Indexed, Academic Year 2025–26).
- ## Patents
1. Dr.(Mrs.) Mridula Korde, Nishad Gharote, Rahul Mishra published patent titled "Smart Street Lighting System" (Application No: 202521058186) on 11/7/2025.
 2. Ankita H. Harkare was granted design patent on SQUARE CUT PATCH ANTENNA ; design number: 446358-001 on 07/05/2025.
 3. Ankita H. Harkare was granted design patent on CIRCULARLY POLARIZED 4 × 4 MIMO RECTANGULAR DIELECTRIC RESONATOR ANTENNA; design number: 446379-001 on 15/05/2025.
 4. Ankita H. Harkare was granted design patent on PATCH ANTENNA ; design number: 446359-001 on 15/05/2025.
- ## Conference, Events & Seminars Organised
- ### Workshops, Seminars, Guest Lectures
- A seminar was organized at Department of Electronics and Communication Engg, Ramdeobaba University, Nagpur on 6th August, 2025 on the topic of "Biomedical Signals and Advanced Processing Techniques" by Dr. Mridu Shahu, NIT Raipur for teaching staff and research scholars.
- ### Conferences / STTP / FDP / MDP / Workshop / Seminar etc attended or organized by faculty
1. Dr. (Mrs.) Mridula Korde attended one-week Faculty Development Program on "Innovative Antenna Design for Next-Generation Wireless Systems: From Concept to Application" organized by NIT Patna under the "Scheme of financial assistance for setting up of Electronics and ICT Academies (Phase-II)" by the Ministry of Electronics and Information Technology (MeitY), Government of India from 04th August, 2025 to 10th August, 2025.
 2. Prof. Puja S. Agrawal, Assistant Professor at RBU, Nagpur, successfully participated in a Ten-Day Online Winter Faculty Development Program on "Artificial Intelligence for Computer Vision and Medical Image Processing", held from 14th to 24th July 2025. The FDP was jointly organized by the Electronics & ICT Academies of NIT Warangal, IIT Roorkee, IIT Guwahati, MNIT Jaipur, NIT Patna, and IIITDM Jabalpur, through the National Knowledge Network, under the Ministry of Electronics and Information Technology (MeitY), Government of India, and endorsed by AICTE / UGC / NBA.
- ## Faculty Highlights
- ### Faculty invited for - Keynote speeches / Guest lectures / STTP / FDP / Others
1. Dr. (Mrs.) Mridula Korde delivered a guest lecture on "5G and 6G : Transforming Connectivity for the Future" at Fr.C.Rogrigues Institute of Technology, Mumbai on 18/09/2025.
 2. Dr.(Mrs.) Mridula Korde was appreciated as jury member for evaluating nominations in IEI NMLC-FCRIT excellence awards presented by the Institutions of Engineers (India), Navi Mumbai Local Centre and Fr.C.Rogrigues Institute of Technology, Mumbai on 16/09/2025.



Guest Lecture by Dr. (Mrs.) Mridula Korde



Felicitatation of Dr. (Mrs.) Mridula Korde

Student Achievements

Awards in competitions or conferences

The All India Vayu Sainik Camp (AIVSC) 2025 was held from 17th to 29th September 2025 at ETI, Jalahalli.

Representing the Maharashtra Directorate, students from the Electronics and Communication Engineering (ECE) Department achieved remarkable success:

- Best Flying Contingent: Ms. Sadichchha Nikhare (3rd Year)
- Best Air Contingent: Mr. Tanishq Bhoyar (3rd Year)

Their outstanding performance brought pride and recognition to the institution and the Maharashtra Directorate.



Sadichchha Nikhare (3rd Year) and Mr. Tanishq Bhoyar

Internships or placements secured

Proud Achievement

Mr. Shiva Raju (B.E. Electronics and Communication Engineering, Pass Out Batch 2025) has been selected from 14 SSB, Prayagraj, and will be joining the Officers Training Academy (OTA), Gaya, on 29th September 2025.

His achievement brings pride to the department and serves as an inspiration to all aspiring cadets.



Mr. Shiva Raju

Alumni Interaction Session with Lt. Varad Joshi (Alumnus EC 2022)

1. Dr.(Mrs.) Mridula Korde organized an alumni interaction session with Lt. Varad Joshi, alumnus of the Electronics & Communication Engineering 2022 Batch, who is currently serving in the Indian Army.

Lt. Joshi guided the students on various career opportunities in Défense services, highlighting the selection process, preparation strategies, and life in the armed forces. He shared his first-hand experiences of serving in Siachen, offering a glimpse into the challenging yet inspiring life of a soldier posted at the world's highest battlefield.

The session was highly interactive and motivating, students actively participated and gained valuable insights and sense of service that define a soldier's journey.



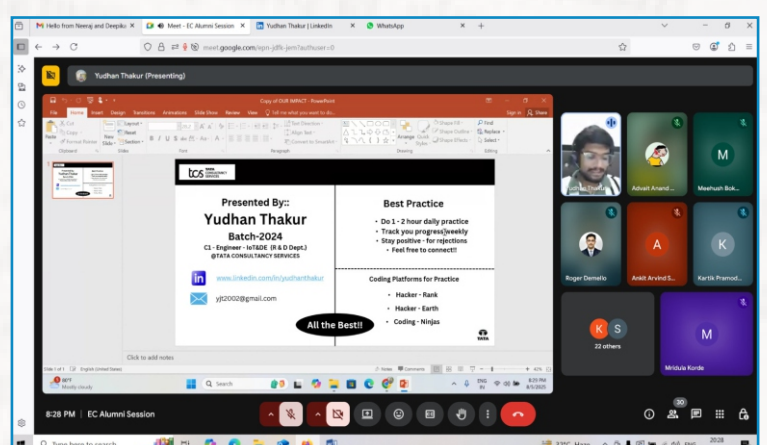
Interaction by Lt. Varad Joshi

2. Alumni Interaction Session with Mr. Neeraj Wadhawa and Mrs. Deepika Wadhawa (Alumni EN 2006) Dr.(Mrs.)Mridula Korde organized alumni interaction session on "Traversing the Big Tech World" on 8th August 2025 for third year students. The session was conducted by Mr. Neeraj Wadhawa and Mrs. Deepika Wadhawa(2006 EN Alumni) presently working in Amazon and Microsoft respectively. They engaged the students with interesting session on recent trends in software industry.



Interaction by Mr. Neeraj Wadhawa and Mrs. Deepika Wadhawa

3. Alumni Interaction Session with Mr. Yudhan Thakur (Alumnus EC 2024) - Dr. (Mrs.) Mridula Korde organized alumni interaction session on "How to design your track for placements" on 5th August 2025 for final year students. The session was conducted by Mr. Yudhan Thakur (2024 EC Alumnus) presently working in TCS. Students appreciated the placement guidance by Mr. Yudhan.



Interaction by Mr. Yudhan Thakur

4. Student entrepreneur Talk Series: Insights from Mr. Zaid Khan

A student seminar was conducted on 26th September 2025 for the 3rd-year ECE students. The session was delivered by Mr. Zaid Khan, a student entrepreneur.

Mr. Zaid Khan, Founder of Calisnova, spoke about his own experience, describing the challenges, risks, and teachings involved in turning innovative concepts into actual world projects. He gave a frank and interactive review of the entrepreneurial journey, highlighting that it is frequently riddled with uncertainty, determination, and ongoing learning. In his presentation, students came to understand quite well what it actually takes to create a startup from cultivating an idea to implementing it successfully.



Mr. Zaid Khan felicitated by Miss. Ashelsha Gaidhane



The session by Mr. Zaid Khan

5. Expert Talk on Entrepreneurship and Innovation

A talk on entrepreneurship was organized on 26th September 2025 for the 2nd-year ECE students and it was delivered by Mr. Gaurav Chauhan. The event, hosted by the Communique Students' Society. Mr. Chauhan is the founder of MechHelp Private Limited, a startup incubated at the RCOEM Technology Business Incubator (TBI). MechHelp is a partner program for auto repair shops and mechanics, providing them with digital tools, resources, and business support to expand their work and provide customers with improved service. By filling the gap between technology and conventional repair methods, MechHelp has emerged as a model of how a campus conceived idea can develop into a business that makes a real impact.



The session by Mr. Gaurav Chauhan

Dr. Rohini Ochawar, Department Head of Electronics and Communication, presented a sapling to Mr. Chauhan as a token of appreciation.



Mr. Gaurav Chauhan felicitated by HoD ECE Dr. Rohini S. Ochawar

Departmental Activities

Parents Meet

The Department organized a Parent-Teacher Meeting for the session 2025-26 on 20th September 2025. Parent-Teacher Meeting coordinator Dr. (Mrs) A.H. Harkare welcomed the parents and emphasized on the need of developing an enhanced communication between parents and faculty to serve as a bridge in fulfilling expectation of parents and students especially during this online mode of teaching. Dr. (Mrs) R.S. Ochawar, HOD EC addressed the gathering conversing about the various curricular and extracurricular activities conducted by the department. She especially addressed the parents about the support mechanisms and activities carried out to fulfill overall development of the students.

A brief review of academic activities, teaching learning process and PO, PSO were discussed. Parents were made aware of the new Mission Vision statements of the department. Moreover, a brief review of the various activities and schemes offering support to students for ensuring student progress in academics, placements formed a segment of this discussion.



Dr. (Mrs) R.S. Ochawar, HOD EC in PTM



Dr. (Mrs) R.S. Ochawar, HOD EC addressing PTM queries

Induction program

1. First Year B. Tech. (ECE) Induction Program 2025-29: The Department of Electronics and Communication Engineering, Ramdeobaba University (RBU), Nagpur, successfully conducted the First Year B.Tech. Induction Program for the 2025-29 Batch on 7th August 2025 at Classroom EC-304. A total of 62 students were present for the program. The session was graced by:

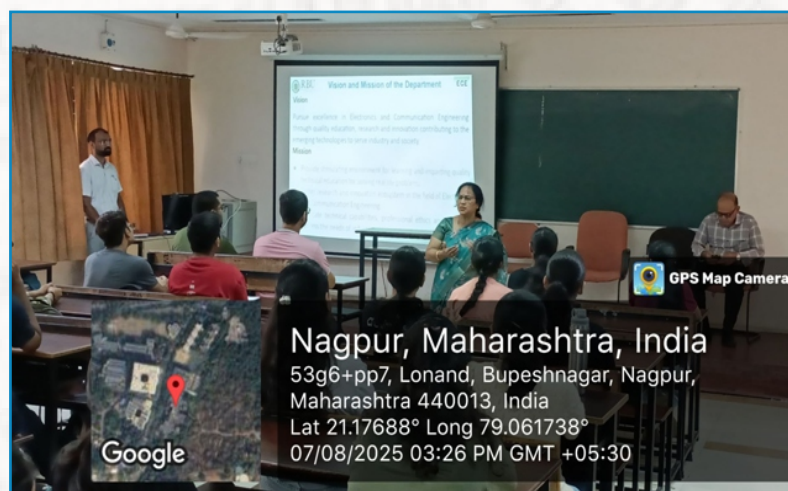
Dr. Rohini S. Ochawar, Head of the Department, ECE

Dr. Sanjay B. Pokle, Dean, School of Electrical & Electronics Engineering

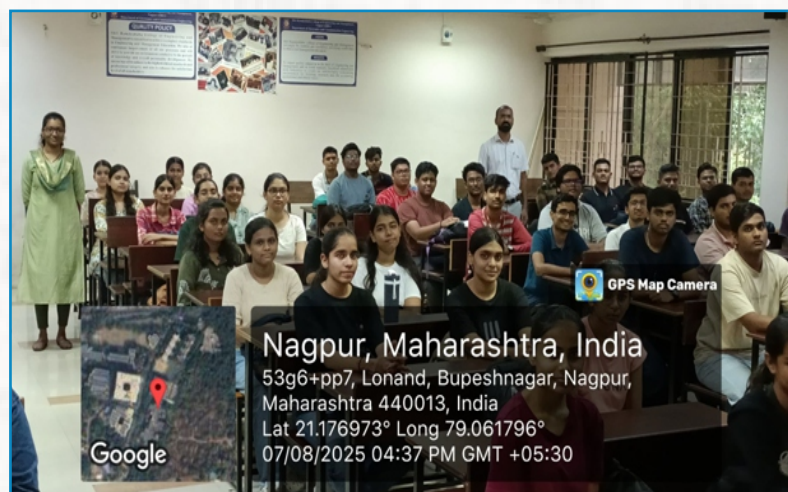
Prof. Nitin Chakole, Class Teacher, Section M-2

Prof. Soniya Milmlile, Class Teacher, Section M-1

The Induction program concluded with a message that **academic excellence, discipline, and innovation** are the guiding pillars for the holistic development of every student.



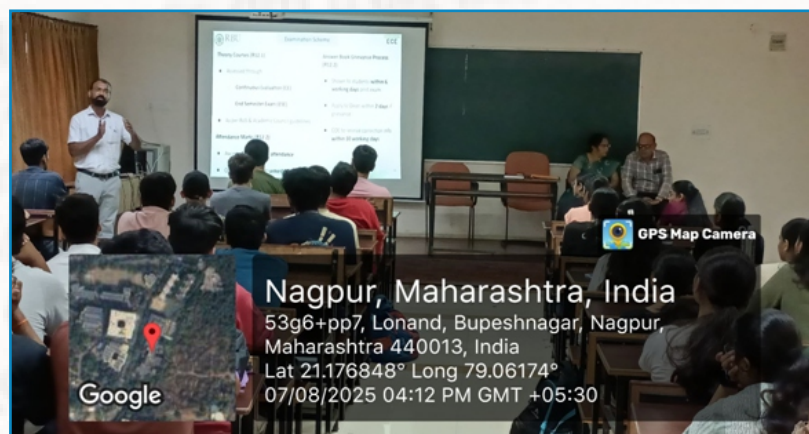
Dr. Rohini S. Ochawar Head ECE conducting a Induction Programme Session



Section In charges monitoring the session during a Induction Programme



Dr. Sanjay B. Pokle, Director School of Electrical and Electronics Engineering and Professor ECE department conducting an Induction Programme Session



Prof. Nitin Chakole conducting an Induction Programme Session

Students Industry Visit :

On September 18th, 2025 the second-year students of the Electronics and Communication. Engineering (ECE) section-B of Ramdeobaba University visited JSW Steel Pvt Ltd, located in Kalmeshwar. The visit aimed to provide students understand the various stages of steel processing and production. It provides insights into modern techniques used for restoring and furnishing steel for industrial applications. JSW Steel is known for being one of India's largest and most advanced steel producers. It is recognized for high-quality steel products and modern, sustainable manufacturing practices. Faculty members Dr. B. A. Neole, Dr. P. R. Selokar, Dr. P. P. Deshpande and Prof. V. S. Lande accompanied the 23 students on this educational visit.



EC students with Faculty at JSW Steel Ltd, Kalmeshwar

Internal Hackathon 2025 : The internal hackathon event was hosted by EC department on 20th Sept 2025, to evaluate 32 teams under Hardware Problem statement category. All the teams were evaluated for Novelty of Idea, Architectural Details, Use of Appropriate Tools, Solution Feasibility and Scale of Impact on the proposed solution by industry experts Mr. Kunal Khavashi (Director, V. S. Informatics pvt Ltd, Nagpur), Mr. Akash Kirtane (Director, Web Beta Pvt. Ltd. Nagpur) and Mr. Vinamra Vij (Co-Founder, Maxscripts Technologies, Nagpur). Five shortlisted teams were announced as a result comprising of team names Hack Frequency, NullifyX, RISE, Team VAANI and AgriSense AI. The event was coordinated by Dr. R. S. Ochawar, Head EC along with committee members Prof. V. S. Lande, Prof. A. Jaiswal, Prof. N. M. Borkar, Prof. A. P. Nilawar, Prof. M. R. Sarve. Dr. S. B. Pokle, Director, School of Electrical and Electronics Engineering, Ramdeobaba University, was appointed as an Expert for Project Evaluation in Hackathon 2025, held on 20th September 2025.



Students presenting their Idea



Students presenting their Idea



Felicitation of industry Expert by EC faculty



Students presenting their Idea

नागपूरची नेहा साबळे जगात भारी!

लोकमत न्यूज नेटवर्क

नागपूर : नागपूरच्या तरुणीने जागतिक पातळीवर इतिहास रचला आहे. नेहा इंगोले-साबळे यांनी नुकत्याच क्वालालंपूर (मलेशिया) येथे झालेल्या आयईईई येसिस्ट-१२ (युथ एन्डेव्हर्स फॉर सोशल इनोव्हेशन युजिंग सस्टेनेबल टेक्नॉलॉजी) या आंतरराष्ट्रीय स्पर्धेच्या स्पेशल ट्रॅक गटात जगभरातील स्पर्धकांना मागे टाकून पहिला क्रमांक पटकावला आहे.

नेहा इंगोले या रामदेवबाबा इंजिनिअरिंग कॉलेजच्या इलेक्ट्रॉनिक्स अभियांत्रिकी विभागातील संशोधन विद्यार्थिनी आहेत. ही प्रतिष्ठेची स्पर्धा क्वालालंपूर येथे २४ ऑगस्ट २०२५ रोजी झाली. यंदा या स्पर्धेत ८ देशांतील ५०८ संघांनी आपले प्रकल्प सादर केले. प्रकल्पांमधून



स्पर्धकांना मागे टाकून घेतला पहिला नंबर : आयईईई येसिस्ट-१२ स्पर्धेत भारताचा झेंडा

निवडलेल्या केवळ ३६ संघांना अंतिम फेरीत संधी मिळाली. जगभरातील ९ देशांतील १८ तज्ज्ञ परीक्षक मंडळाने मूल्यांकन केले. त्यात नेहाचा प्रकल्प ठळक ठरला आणि जागतिक विजेतेपद पटकावले. नेहाच्या या अद्वितीय यशाबद्दल त्यांना १,००० अमेरिकन डॉलर्सचे पारितोषिक देऊन सन्मानित करण्यात आले. त्यांच्या संशोधन प्रवासात डॉ. रिचा

यकृताचे विकार शोधण्यासाठी स्मार्टफोन ॲप्लिकेशन

नेहा आणि त्यांच्या टीमने सादर केलेला प्रकल्प 'फिंगरनेल इमेजेसच्या साहाय्याने यकृत विकार व सोरायसिसचा लवकर शोध घेण्यासाठी स्मार्टफोन ॲप्लिकेशन' हा होता. हा अभिनव प्रकल्प पूर्णतः नॉन-इन्व्हेसिव्ह, पोर्टेबल व परवडणारा असून, ग्रामीण भागात आरोग्यसेवा अधिक परिणामकारक करण्यासाठी क्रांतिकारक ठरणार आहे. संयुक्त राष्ट्रांच्या 'शाश्वत विकास उद्दिष्ट क्र. ३ - सर्वासाठी चांगले आरोग्य व कल्याण' याला हा प्रकल्प थेट हातभार लावतो.

खंडेलवाल यांनी मार्गदर्शन केले. नेहा या विद्यापीठात कार्यरत असलेल्या सुनील इंगोले यांच्या कन्या व एका बहुराष्ट्रीय कंपनीत कार्यरत प्रताप साबळे यांच्या पत्नी आहेत. त्यांच्या या अभूतपूर्व यशामुळे नागपूर, महाराष्ट्र आणि भारताचाही मान जगभर उंचावला आहे.

रामदेवबाबा विद्यापीठात अभियंता विभागाच्या आयईईई सेलचा शुभारंभ



नागपूर, मेट्रो प्रतिनिधी. वीज क्षेत्र भारतात आणि विशेषतः महाराष्ट्रात आर्थिक विकासाचा कणा बनला आहे आणि यामध्ये नवीकरणीय ऊर्जा, स्मार्ट ग्रिड, इलेक्ट्रिक मोबिलिटी आणि डिजिटायझेशनच्या समावेशामुळे लक्षणीय बदल होत आहेत. हे बदल विद्युत अभियंता पदवीधरांसाठी विविध क्षेत्रांमध्ये करिअर संधी निर्माण करत आहेत, असे प्रतिपादन महाराष्ट्र राज्य विद्युत वितरण कंपनी लिमिटेड (एमएसडीडीसीएल) चे संचालक (प्रकल्प) सचिन टलेवार यांनी केले. रामदेवबाबा विद्यापीठ येथील विद्युत अभियंता विद्यार्थी संघ (इइएसए) आणि आंतरप्रेरणा विकास कक्षाच्या विद्युत अभियंता विभागाच्या आयईईई सेल संयुक्त अध्यायाच्या उद्घाटन सोहळ्याप्रसंगी प्रमुख पाहुणे म्हणून ते बोलत होते. महावितरणच्या कार्यक्षेत्राबद्दल माहिती देताना ते म्हणाले, महावितरण ही जगातील सर्वात मोठ्या विद्युत वितरण कंपन्यांपैकी एक आहे आणि सध्या २८.५ लक्ष ग्राहकांना सेवा देत आहे. विद्युत अभियंता पदवीधरांना महावितरणमध्ये ऑपरेशन्स, संशोधन आणि प्रकल्पांसाठी चांगल्या पगारसोबत विविध संधी उपलब्ध आहेत, तसेच ही संधी विज क्षेत्रात इतर कंपन्यांमध्ये देखील आहेत. या कार्यक्रमात टलेवार यांनी नवीनपणे निवडलेल्या कार्यालयीन सदस्यांना पदभार दिला.



“ECE: Where physics meets innovation and communication meets the future.”



School of Engineering Sciences

Department of Mechanical Engineering

Departmental Highlights:

Research & Publications

- Dr.Yogesh G. Joshi has published a research Paper titled as “Influence of Magnetization on Heat Transfer Coefficient of Condenser in R404a Refrigerant based Vapor Compression Refrigeration System: An Experimental Investigation ”Published in Journal of Heat Transfer Research, Belled House Publisher (Scopus and SCIE Indexed) in September 2025.
- UG Student Mr. Gourang Zalke and Ms. Ishwari Bhole (7th Sem) along with Dr. Yogesh G. Joshi has published a research Paper titled as “Parametric Optimization and Transient Analysis of a Disc Brake Using L9 Taguchi Design with Different Brake Materials” Published in IOP Conference Series: Materials Science and Engineering (Web of Science Indexed) in September 2025.
- Dr. Vandita Thantharate, Dr. Arun Kose and Dr. Yogesh Joshi has received a grant of Design patent titled “SOLAR OPERATED DRAIN CLEANER” and issued with application number 458329-001 on Jul 21, 2025.
- Dr. Y. M. Sonkhaskar published a paper on “Hundred Years of Bread Wrapping Machines: Challenges, Solutions and Advent of Mechatronics” in Mechanical Engineering Solutions: Design, Simulation, Testing, Manufacturing in September 2025
- Dr. Mangesh Joshi published paper on “Prioritizing Factors for Effective UI/UX Design in Children's Mobile Gaming Applications: A Spherical Fuzzy DEMATEL - ISM Approach” in International Journal of Information Technology & Decision Making in August 25

Conference, Events & Seminars Organised

- 05 Day Workshop for “CFD using ANSYS Fluent ” is organized by the department of Mechanical Engineering. The initiative taken by Dr. Vandita Thantharate and co-ordinated by Dr. Yogesh Joshi.
- A Guest Lecture by Mr. Nikhil Chandnani, Product Manager, ZS Associates, Alumnus ME 2016 was organised on 24.07.25 on the topic of Preparing for Campus Interviews.
- A Guest Lecture by Mr. Aditya Bire, Varroc Pune, Alumnus ME 2025 was organised on 14.07.25 on the topic of Preparing for Campus Interviews.
- A Guest Lecture by Mr. Mayank Kumar, Varroc Pune, Alumnus ME 2023 was organised on 17.07.25 on the topic of Preparing for Campus Interviews.
- A Guest Lecture by Mr. Aditya Bire, Varroc Pune, Alumnus ME 2025 was organised on 24.07.25 on the topic of Preparing for Campus Interviews.
- A Guest Lecture by Ms. Hemlata Dubey, Counselor RBU was organised on 25.07.25 on the topic of Building Emotional Intelligence for Academic and Career Success.
- A Guest Lecture by Ms. Aditi Lele, Education USA Adviser, USIEF was organised on 25.07.25 on the topic of Higher Studies in US.
- A Guest Lecture by Prof. Dr. A. B. Andhare, HOD Mech Dept., VNIT Nagpur was organised on 31.07.25 on the topic of Vibration Based Condition Monitoring.
- Shri. Rajesh Muneshwar, Rocket Propulsion Scientist and Defense Engineer, conducted guest lectures on

the topic "Introduction to Defense Engineering" on 08-08-2025 and on the topic "Land Platforms-TANKS" on 21-08-2025 for the students of MDM course on Defense Platforms.

- Shri Harsih Kutemate, Flying Officer (NCC) Indian Air Force conducted guest lectures on the topic "Introduction to Indian Military and Paramilitary

forces" on 09-08-2025 and on the topic "Air Force- Process of Selection" on 30-08-2025 for the students of MDM course on Defense Platforms.

- Shri Pratik Mahant Gr Capt (Retd) Indian Air Force, conducted a guest lectures on the topics related to "Aerial Platform" on 04-09-2025, 18-09-2025 and 25-09-2025 for the students of MDM course on Defence Platforms.

Conferences / STTP / FDP / MDP / Workshop / Seminar etc attended or organized by faculty

- Dr. Bhmeshwar Patle attended the One-Week (Online) Skill Enhancement Workshop on “Immersive AR and VR Technology and Its Applications” organized by CVR College of Engineering, Hyderabad from 4th to 9th August 2025.
- Dr. Ashish Urade attended the One Week FDP on “Sustainable Materials and Advanced Manufacturing Practices” organized by VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad, from 22nd to 26 September 2025.

Faculty Highlights

- Dr. Y. M. Sonkhaskar was felicitated with the Silver Trophy for maximum number of granted patents during session 2024-25 On September 10, 2025, by the Hon. Chairman of RBU, Shri Satyanarayanji Nuwal, and the Hon. General Secretary of RBU, Shri Rajendraji Purohit, in the presence of Hon. Chancellor and Vice-Chancellor.
- The Department was also awarded a trophy for having the maximum number of granted patents during the year 2024-25

Student Achievements

- Heet Chandarana and Smeet Shelke got selected in Varroc India Ltd through Campus Recruitment. Ayushi Vora and **Komal Borkar got selected in Schneider Electric** while Shravani Morankar and Ibrahim Jukkarwala got selected in **Eaton** through Campus Recruitment.

Community & Social Impact

- Outreach programs: Dr. G R Nikhade, delivered an expert talk on “Mechatronics” at Yantra Institute of Technology and Management (Ministry of defence), Ambajhari, Nagpur on 10 Sept, 2025.

Departmental Activities

The Department of Mechanical Engineering, Ramdeobaba University, successfully organized a Parent-Teacher Meet (PTM) on 20th September 2025 for B.Tech. III V and VII semester students. The event was organized to strengthen communication between parents and faculty, promoting a collaborative effort toward students’ academic progress and holistic development.

Parents of 108 students have attended the PTM, where they interacted with the Dean, School of Engineering Sciences, Head of the Department, Mechanical Engineering and Class Teachers, Teacher Guardian, and faculty members. The discussions during the meeting revolved around key aspects such as students’ attendance, academic progress (Test 1 and Teacher Assessment), classroom participation, and involvement in co-

curricular activities. Parents acknowledged and appreciated the dedicated efforts of the faculty in guiding and mentoring students toward their academic and personal growth. They also shared valuable feedback on curriculum design, assessment practices, and the availability of student support services.



III Sem A



III Sem B



III Sem C



V Sem



With Dean SES



VII Sem

Faculty Interacting with parents during the meeting

Department of Civil Engineering

Departmental Highlights:

Research & Publications

- Dr. Prashant D. Hiwase, along with Amolkumar N. Jadhav, Rajesh M. Bhagat, Vivek Bhusari, Nadeem G. Alvi, R. S. Chandok, Shruti P. Dhale, Nilesh S. Ugemuge, Sunil S. Chaudhari, and Ashish W. Selokar, published a research paper titled “Synthesis and Photoluminescence in K5La(MoO4)4: Ln3+ (Ln = Tb, Er) Green-Emitting Phosphor for Optoelectronic Applications” in the Journal of Electronic Materials (SCIE).
- Hariom Khungar, along with co-authors Ansari Ubaid, Muhammed Zain Kangda, Jayachandra, Rohan Raikar, Sameer Algburi, Ahmed M. Abdulhadi, and Ali Majdi, published a paper titled “Comparative Analysis of Elevated Circular Water Tanks: Structural Efficiency and Seismic Resilience Under IS 3370:2009 (WSM) and IS 3370:2021 (LSM)” in the Nigerian Journal of Technological Development, Vol. 22, No. 4, September 2025 (Scopus)
- Dr. Varsha Harne published a research paper titled “Significance of Masonry Infill Walls to Improve the Seismic Response of RC Framed Structures Through Fibre-Based Modelling” in Procedia Structural Integrity, Volume 71, August 2025, Pages 279–286 (Scopus)
- Kumud S. Meshram, along with Tripti B. Gupta, Sameer Algburi, Salah J. Mohammed, and Ali Majdi, authored a paper titled “Interlinking of Lakes with Emphasis on Groundwater Recharge Under the Climate Change Impact,” prepublished in Nature Environment and Pollution Technology in September 2025 (Scopus)

Conference, Events & Seminars Organized

- Jeet Raninga, along with Yashshree Dhale, Rajendra Khapre, Anshuman Srivastava, and Dr. Sharda Siddh, presented a research paper titled “Thermal Effects on Prestressed Concrete Slabs for Evaluating Structural Stability under High Temperatures: A Finite Element Analysis Approach” at the 9th International Conference on Sustainable Materials & Practices for Advancements in Civil Engineering (SMPACE-2025), held at REVA University, Bangalore, on the 13th and 14th of August 2025.
- Dr. Varsha Harne, along with Dr. Anurag Sharma, presented a paper titled “An Experimental Study for Improvement of Concrete Properties by Replacement of Cement with Dolomite Powder” at the Sixth International Conference on Advances in Steel, Power & Construction Technology (ICASPCT-2025), held at OP Jindal University, Raigarh, India, from September 3–5, 2025.

Book Chapter :

- Dr. P. P. Dahale, Dr. Geete, and Ms. Pratiksha Jawalge, Assistant Professor, contributed a Book Chapter titled “Analytical, Physical, and Numerical Modeling in Geotechnical Engineering” published by Springer Nature (ISSN: 2366-2565) on 30th September 2025.
- Dr. Varsha Harne, Assistant Professor, and Toshini Narendra Makde authored a Book Chapter included in the “Proceedings of the 3rd International Conference on Advances in Concrete, Structural, and Geotechnical Engineering — Volume 2”, published by Springer Nature on 7th August 2025 (eBook ISBN: 978-981-96-0751-8).
- Hariom Khungar, Assistant Professor, contributed a Book Chapter titled “Dynamic Analysis of G + 10 Building in Consideration with the Critical Devastating Factors in

Turkey-Syria Earthquake” in the book “Recent Advances in Structural Engineering — Volume 4” published by Springer Nature (DOI: 10.1007/978-981-96-8838-8).

- Dr. Vaishali J. Rajurkar, Assistant Professor in the Department of Civil Engineering at RCOEM, has authored a book chapter titled “Effect of Diameter and Spacing of Uncemented Granular Pile on Load Settlement Characteristics of Saturated Soft Soil.” The chapter, co-authored with K. A. Pandian from CMPDI, Nagpur, Maharashtra, India, is published by Springer Nature in Deep Foundations for

Infrastructure Development in India, Volume 1, Lecture Notes in Civil Engineering (LNCE), Volume 643.

- Dr. Vaishali J. Rajurkar has authored a book chapter titled “Rehabilitation of Railway High Embankment: A Case Study.” This chapter, co-authored with Kailash N. Faye and Amol Shingarey, is published by Springer Nature in the Proceedings of the Indian Geotechnical Conference (IGC 2024), Volume 3, Lecture Notes in Civil Engineering (LNCE), Volume 669. The eBook ISBN is 978-981-96-7767-2 and the print ISBN is 978-981-96-7766-5.

Conferences / STTP / FDP / MDP / Workshop / Seminar etc. attended or organized by faculty

Prof. L. R. Gangwani attended a Short-Term Training Program (STTP) on “Design of Pipe Networks for Water Supply, Irrigation and Wastewater Collection” organized by Visvesvaraya National Institute of Technology (VNIT), Nagpur, from 16th to 24th August 2025. The program was conducted at the National level under the Department of Civil Engineering.

Dr. T. B. Gupta participated in a Short-Term Training Program (STTP) on “Design of Pipe Networks for Water Supply, Irrigation and Wastewater Collection” organized by Visvesvaraya National Institute of Technology (VNIT), Nagpur, from 16th to 24th August 2025. The program was held at the National level under the Department of Civil Engineering.

Dr. S. P. Siddh completed a Short-Term Training Program (STTP) on

“Conceptual Structural Systems Planning and Design of Buildings” organized by IASTRUCTE, held at the National level from 16th August 2025 to 13th September 2025.

Dr. Sumit S Geete successfully attended the Advanced Drone (Air Taxi) Workshop conducted by the Bharat Space Education Research Centre under I-STEM. The workshop was organized to support the vision of Viksit Bharat @2047 on 07 September 2025 as part of the Amrit Kaal initiative.

Dr. Sumit S Geete successfully completed a 5-day Faculty Development Program (FDP) on Sustainable Construction Materials organized by the Department of Civil Engineering, Netaji Subhas University of Technology (NSUT). The program was conducted online from 22nd to 26th September 2025

Faculty Highlights

- Dr. V. R. Harne has been awarded with Ph.D. from NIT Raipur.
- Dr. S. S. Geete has been awarded with Ph.D. from IIT Bombay.

Faculty invited for - Keynote speeches / Guest lectures / STTP / FDP / Others

- Dr. P. P. Dahale served as a Trainer for the “Training Workshop for Graduate

Trainee Engineers (GTE) of Lloyd Metals and Energy Limited, Konsari, Gadchiroli,” held on September 23, 2025, at Lloyd Metals and Energy Limited, Konsari, Gadchiroli. The workshop was conducted at the Local level, organized jointly by GTE and the Department of Civil Engineering, with a total of 20 participants.

- 1. “Predictive Modeling of Dental Restorations Using 3D Finite Element Analysis and AIML Techniques” submitted by Dr. Rajendra Narayan Khapre for Rs. 60,14,400.
- 2. “Stress analysis and investigation of anchorage zone stresses for unbonded post-tensioned concrete sections to prevent bursting of concrete” submitted by Dr. Sharda Phusnath Siddh for Rs. 46,66,420.
- 3. “Sustainable road construction and smart Pothole Management: An

Departmental Activities

- A NABL surveillance audit was conducted on 19-20 July 2025 and 2-3 August 2025.
- Parent Meet A Parent – Teacher Meet was organized by the Civil Engineering Department on Sep 20, 2025 (Saturday) from 11.00 a.m. to 12 Noon for the current session 2025-26 (Odd Sem). The meeting was addressed by

Dr. R. N. Khapre, the Head of the department. It was attended by many faculty members of the department. This meeting received a good response from the parents of III, V, and VII Semester students. 25 Parents, 8 from 3rd sem and 13 from 5th sem, and 4 from 7th sem attended the meet and interacted openly.

Photo of Parent Teacher Meet 2025-26 (Odd Sem) 20.09.2025



Induction Program

- Induction program for newly admitted first-year students, B.Tech. Civil Engineering was conducted on 7th August 2025 by the Head of the Department. A total of 41 students have attended the program.

Students Placement

- Three students of final year B. Tech Civil Engineering are placed in VConstruct during campus recruitment drive.

Research Proposal Submitted

- Following research proposal submitted to Anusandhan National Research Foundation (ANRF), New Delhi.

Consultancy Assignments Completed

- The department has successfully completed 7 consultancy assignments worth approximately Rs. 3 lakh.

Through civil engineering, ideas stand tall and last for generations.

Alternative Approach Using Industrial by products and Drone-Aided Digital Detection Systems” submitted by Dr. Ashish A. Mehta for Rs. 93,42,311.

- 4. “Integrated Waste-to-Energy and Wastewater Treatment System: A Sustainable Circular Economy Approach Using Microbial Fuel Cells and Adsorptive Pilot-Scale Technology” submitted by Dr. Tripti Balram Gupta for Rs. 92,84,000.”
- 5. “Development of AI and Image processing based Geotechnical Investigation Smart Phone App” submitted by Dr. P. P. Dahale for Rs. 2,32,73,750.



School of Humanities

Department of Humanities

Departmental Highlights:

Research & Publications

Publications in high-impact journals :

Authors, Paper title, published in Journal

1. Author : Dr. Vinod Asudani
Paper Title : Poetry : Traditions and Trends in Indian Literature
Published by Central Sahitya Academy, No. 347, May- June 2025, Vol. LXIX No. 3, New Delhi, ISSN 0019580-4,
2226-0439 Volume 14, Issue 30s (2025)
<https://www.jneonatsurg.com>
2. Author : Dr. Deepti Jain Thakre
Paper Title : Love, Rivalry, and Betrayal: Sibling Dynamics in Anita Desai's Voices in the City and Clear Light of Day
Journal : Journal of Neonatal Surgery (multidisciplinary journal) ISSN (Online) : 2582-2160, Volume 7, Issue 3, a peer reviewed international journal.
3. Author : Ms. Pratishruti Singh Agarwal
Paper title : 'Applying Alfred Korzybski's General Semantics to Language Teaching: Bridging Theory and Practice in Modern Classrooms'
Journal : International Journal for Multidisciplinary Research with ISSN 2582-2160, Volume 7, Issue 3, a peer reviewed international journal.

Conferences / STTP / FDP / MDP / Workshop / Seminar etc attended or organized by faculty

Ms. Asifa Ebrahim successfully completed the NPTEL Online Certification for the course 'Enhancing Soft Skills and Personality' offered by Indian Institute of Technology, Kanpur, and secured a position among the top 1% candidates appearing for the exam.

Faculty Highlights

Promotions, awards, Ph. D. awarded or honors

Rohit Joshi was awarded Ph.D. in English, under the supervision of Prof. Basavaraj P. Donur, Director, Academics and HoD, Department of English, Central University of Karnataka, Kalaburagi on April 17, 2025. The title of the thesis was 'The Dialectic of Reform in Marathi Theatre'.

Faculty invited for - Keynote speeches / Guest lectures / STTP / FDP / Others

Dr. Deepti Jain delivered an online Guest lecture on the topic "Harnessing the Power of Gratitude" on 18/04/25 in a 10-day Online 'Soft Skills short-term Course' jointly organised by Manoharrao Kamdi Mahavidyalaya, Nagpur, Seth Kesarimal Porwal College of Arts, Science & Commerce, Kamptee, Dr. S.C. Gulhane Perna College of Commerce, Science and Arts, Nagpur, and Mahatma Gandhi College, Parseoni.

Department of Mathematics

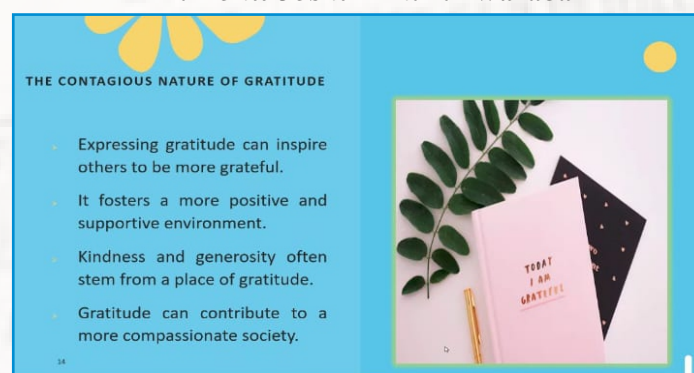
Faculty Highlights

Publications

1. A.R. Lalke has published a paper titled Study Of Periodic cosmic evolution in modified F(Q,T) gravity theory in Astrophysics. with ISSN: 1573-8191, Issue Aug-25, indexed with SCIE
CesareaN Section: A retrospective study in Indian Women in Journal of Pharmacy & Bio allied Sciences with. ISSN:0976-4 8 7 9 , D O I : 10.4103/jpbs.jpbs_910_25, Issue Aug-25, indexed with ESCI
2. P. A. Saoji has published a paper titled Predicting Model development to predict
3. P. V. Lapse has published a paper titled Synthesis, spectroscopic analysis and energy transfer mechanism in



Dr. Rohit Joshi - Ph.D. Awarded



Dr. Deepti Jain Thakre - Soft Skills Course



Ms. Asifa Ebrahim - NPTEL Certificate

UVB emitting Sr₂YF₇:Ce³⁺, Gd³⁺ phosphors in Ceramics International with Vol doi - "https://doi.org/10.1016/j.ceramint", Issue Sep-25, indexed with SCIE

published a paper titled Dynamics of Bianchi Type-III Universe in F(T) Gravity in Bulgarian Journal of Physics. with doi : https://doi.org/10.55318/bgjp.2025.52.3.265 Issue Aug-25, indexed with UGC care

4. S.B. Deshmukh (Solanke) has

Writer's Corner :

For Faculty : Short articles based on findings of research, new concepts, or any issue related to Engineering, Management, Basic Sciences / Humanities in around 700-1000 words. Since all the 'Reflection' issues have a volume and issue number, the authors of the write-ups can include the details in their resume / CV under college publications.

For Student : To encourage student articles and publications, the students of the Department can send short articles based on findings of research, new concepts, or any issue related to Engineering, Management, Basic Sciences/ Humanities in around 700-1000 words. Since all the 'Reflection' issues have a volume and issue number, the authors of the write-ups can include the details in their resume / CV under college publications.



Department of Physics

Departmental Highlights:

Research & Publications

Journals : Authors, Paper title, published in Journal

- 1.) Neelam Hooda, Amit Hooda, Reena Sharma, Ashima Hooda, Mahendra Singh Rathore, B-site supplantation effect of Cu on structural, dielectric, optical band gaps and magnetic properties of $\text{La}_2\text{Ni}_{1-x}\text{Cu}_x\text{MnO}_6$ double perovskites, Journal of Alloys and Compounds.
- 2.) Neelam Hooda, Reena Sharma, Parth Singh Grewal, Ashima Hooda, and Satish Khasa, Synthesis and characterization of structural, optical and magnetic properties of nano-crystalline La_2MMnO_6 (M=Ni, Cu & Zn) double perovskites, J Mater Sci: Mater Electron.
- 3.) Shilpa Kulkarni, Ankit Mungale, Shaikat A. Shah, Manasi P. Deore, Sneha G. Hirekhan, Khushbu Sharma, Shruti P. Dhale, Nadeem G. Alvi, Nilesh S. Ugemuge and K. M. Nissamudeen, Synthesis and spectroscopic analysis of NIR-emitting $\text{Na}_2\text{YMg}_2(\text{VO}_4)_3\text{Nd}^{3+}, \text{Yb}^{3+}$ phosphors for optoelectronic applications, The Canadian Journal of Metallurgy and Materials Science.
- 4.) Yatish R. Parauha, Praful P. Khode, Naumov G. Nokolay, S.J. Dhoble, Biogenic synthesis of novel La_2O_3 nanoparticles using orange juice: single host for two colors emission for WLED, Journal of Optics.
- 5.) Yatish R. Parauha, N. T. Kalyani, S.J. Dhoble, Recent trends in rare earth doped luminescent materials: A review, Journal of Molecular Structure.
- 6.) Yatish R. Parauha, Praful P. Khode, Naumov G. Nokolay, S.J. Dhoble, Enhancement in photoluminescence properties of $\text{La}_2\text{O}_3:\text{Bi}^{3+}$ phosphor by codoping with Na^+ , Cs^+ , Journal of Molecular Structure.

Conferences / STTP / FDP / MDP / Workshop / Seminar etc attended or organized by faculty

1. Dr. Shilpa Kulkarni, have attended a FDP, from July 11 – Aug 2, 2025, organized by, ELECTRONICS & ICT Academics MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal, on the topic QT-05: Quantum Computation.
2. Dr. Shilpa Kulkarni, have attended a FDP, from Aug 18-Sep 10, 2025, organized by, ELECTRONICS & ICT Academics MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal, on the topic QT-06: Quantum Computation.
3. Dr. Renuka Nafdey, has successfully completed the 40 hours (3 credits equivalent) Faculty development programme on “QT-06 Quantum Communication” jointly organised by various Academics like Electronics and ICT Academy, MNIT, Jaipur, NIT Patna, IIT Kanpur, IIT Guwahati and IIITDM Jabalpur from September-19 to October 16 2025. This Programme is funded by MeitY and endorsed by DST-NQM/AICTE/UGC.
4. Dr. Ashish Kore, have attended a FDP, from July-Aug 2025 (4 week course), organized by, NPTEL AICTE, IIT Madras, on the topic Introduction to Quantum Computing: Quantum Algorithms & Qiskit.
5. Dr. K Pushpanjali Patra, have attended a FDP, from July-Aug 2025 (4 week course), organized by, NPTEL AICTE, IIT Madras, on the topic Introduction to Quantum Computing: Quantum Algorithms & Qiskit.
6. Dr. Vibha Ojha, have attended a FDP, from July- Aug 2025 (4 week course), organized by, NPTEL AICTE, IIT Madras, on the topic Introduction to Quantum Computing: Quantum Algorithms & Qiskit.
7. Dr. Neelam Devi, have attended a FDP, from July-Aug 2025 (4 week course), organized by, NPTEL AICTE, IIT Madras, on the topic Introduction to Quantum Computing: Quantum Algorithms & Qiskit.

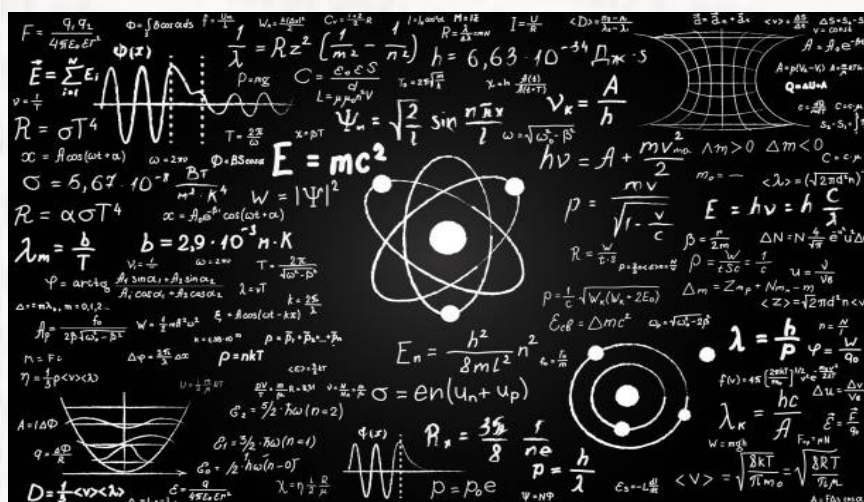
8. Dr. Neelam Devi, have attended a FDP, from July 11 - August 02, 2025, organized by, ELECTRONICS & ICT Academics MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal, on the topic Quantum Computation.
9. Dr. Neelam Devi, have attended a FDP, from August 18 - September 11, 2025, organized by, ELECTRONICS & ICT Academics MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal, on the topic Introduction to Quantum Computing: Quantum Algorithms & Qiskit.
10. Dr. Yatish Parauha, have attended a FDP, from July 11 - August 02, 2025, organized by, ELECTRONICS & ICT Academics MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal, on the topic of Quantum Computation.
11. Dr. Yatish Parauha, have attended a FDP, from August 18 - September 11, 2025, organized by, ELECTRONICS & ICT Academics MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal, on the topic of Quantum Computation.

Faculty Highlights

Promotions, awards, Ph.D. awarded or honors

- (i) Physics Department received Best department award towards contribution for Research and innovation during Foundation day programme on 10th September 2025 at RBU.
- (ii) Dr. Renuka Nafdey received two awards, one with Highest SCI research paper Publication and another for research contribution during

- (iii) Dr. Shilpa Kulkarni, received Research Award by RBU, Nagpur, for good number of SCIE, Scopus publications.
- (iv) Dr. Yatish Parauha was awarded with research contribution during session 2024-25 at Foundation day programme at RBU on 10th September 2025.



“Physics is the universe’s way of understanding itself.”

- Michio Kaku

Student Representative Council

Department of Students' Welfare Office

Achievements of Robotics and Aviation Club, RBU – Technoxian World Cup 9.0

Three teams from the Robotics and Aviation Club of RBU proudly participated in the Technoxian World Cup 9.0, held at Noida Indoor Stadium, Noida – Delhi / NCR (India) from 30th August to 2nd September 2025, and brought laurels to the university by winning top positions in multiple events.

Technoxian World Cup is a global robotics championship that provides a prestigious platform for young innovators to design, build, and compete, fostering future-ready skills in robotics and automation. It is not just a competition but a journey of innovation, problem-solving, and self-discovery, helping participants push their limits and emerge as confident technologists prepared to shape the future.

Our Team's Achievements

First Prize : Maze Solver Challenge **Rs. 60,000/-**

Event Dates : 30th August – 2nd September 2025

Challenge : Build a small, self - contained autonomous robot (Micro-mouse) capable of navigating a maze and reaching the finish point in the shortest possible time.

Scale : Open to 300 teams from across the globe (national and international).

Achievement : RBU's team secured the 1st position, demonstrating precision, speed, and technical excellence.

Maze solver Team :

1. Harshit Sahu
2. Shreya Dhanuka
3. Dhairya Wegad
4. Moli Agrawal
5. Yogiraj Chauhan
6. Yashika Rathi
7. Kartik dharammali
8. Garima Gupta
9. Monojoy Dey
10. Prayas Thakre

Second Prize - Drone Racing Competition Rs. 50,000/-

Event Dates : 30th August – 2nd September 2025

Challenge : Navigate high-speed drones through complex race circuits featuring tight turns, obstacles, and challenging layouts, testing pilots' agility and adaptability.

Scale : Open to 100 teams, including both national and international participants.

Achievement : RBU's team secured the 2nd position, showcasing exceptional piloting skills and control.

Drone Racing Team :

1. Tanuj Kewalramani (Alumni)
2. Arnav Tijare
3. Rohan Dhote
4. Shreya Dhanuka
5. Anushka Nagdeote
6. Priyanshu Kisan

Third Prize - Remote-Controlled Plane Challenge Rs. 25,000/-

Event Dates : 30th August - 2nd September 2025

Challenge : Design and build an aerodynamically sound RC plane capable of take-off, manoeuvring, and landing successfully, within the

given specifications.

Scale : Open to 220 teams from national and international institutions.

Achievement : RBU's team earned the 3rd position, proving their innovation and technical expertise in aerodynamics.

RC Plane Team :

1. Yogiraj Chauhan
2. Harshit Sahu
3. Aishwarya Soman
4. Aymaan Khan
5. Shreyanshu
6. Prayas Thakre
7. Prathamesh Kale
8. Rahul akhara
9. Aryan Salve

Photographs :



Students Achievement :



Readers' Reverie Literary Club participated in **GH Rasoni Turncoat Inter Collegiate Debate Competition** on 16th September 2025. **Projjwal Mitra** from CSE department, a student of second year bagged **2nd Position** and received a trophy, certificate and cash prize of **Rs. 1000/-**.

Projjwal Mitra from CSE department, a student of second year bagged 2nd Position

Achievement of Readers' Reverie Literary Club :

10 students from Readers' Reverie Literary Club participated in the InFacto 4.0, an Inter Collegiate Oxford-Style Debate Competition organised by IIIT Nagpur on 20th and 21st September 2025. Vinshi Manwatkar from CSE (AIDS) department and Aryan Sinha from CSE department, both students of second year won the Special Mention Award and received Medals and **Cash Prize of Rs. 4000/-**. Also, Aryan Sinha from CSE department won the Best Speaker Award and received a Medal and **Cash prize of Rs. 2000/-**



Vinshi Manwatkar from CSE (AIDS) department and Aryan Sinha from CSE department, both students of second year won the Special Mention Award and received Medals and Cash Prize of Rs. 4000/-

2. Infrastructure & Facilities :

Student Amenities Floor Inauguration

Date : 14th August 2025

The Student Amenities floor inauguration was held on 14th of August in due presence of Chief Guest Mr. Vishal Agrawal, Vice Chancellor Dr Rajesh Pande, Director Admissions Dr Rashmi Sahu, Director Students' Welfare, Gaurav Goyal and Director Academics Dr. Manoj Chandak. The program began with a ribbon-cutting ceremony followed by various cultural performances and interactions.

Performances & Activities :

A solo and group dance performance was organised by the students of Dance club. Performers showcased their talent through engaging dance sequences and was widely appreciated by the dignitaries. An impactful and thought-provoking act was presented by the Drama Club, reflecting both creativity and strong stage presence. The performance was well-received and widely appreciated by the dignitaries. The Music Club presented a song performance named "Savre" that added a lively and melodious touch to the program. Along with the performance, there was an interactive session on the sound system, where queries and discussions were addressed.

Students of the Art and Photography Club showcased their creative artworks and photographs through displaying them on the board. Additionally, the Art club presented their works on T-shirt and displayed their art work as well. The Photography club demonstrated their club through presentation. The dignitaries and attendees appreciated the creativity and innovation, making it one of the highlights of the event. An interactive session was also held in EC- 208. Where an interesting question was asked whether the decisions taken should be visionary or spontaneous? In response the answer was one should always unlearn and relearn and individuals usually don't learn things forever. An individual should invest 80% time working individually and the rest 20% for learning. Another question was one word for future entrepreneurs. It was promptly responded with staying real. The event was a successful blend of cultural performances and creative displays. Each segment—dance, drama, music, and art—received strong appreciation and showcased the diverse talents of students. The program also encouraged interactive learning and meaningful discussions.



Dance Club



Photography & Art Club



Music Club



Drama Club

1. Departmental Activities

Gyanodaya Induction Program Report

Report on Induction Program & Gyanodaya (28th July 2025 – 4th August 2025)

The Induction Program and Gyanodaya were conducted successfully from the 28th of July to the 4th of August, 2025. These events were organized to welcome new students, introduce them to the academic culture, and inspire them through interaction with esteemed guests and speakers from diverse fields. The week-long program was marked by insightful lectures, motivational speeches, and valuable guidance aimed at shaping the students' mindset and preparing them for their academic and professional journeys.

The Induction Program began with an impressive inauguration ceremony on 28th July 2025. The event was honoured by the presence of two distinguished chief guests: Mr. Harish Duhan, Chairman and Managing Director (CMD) of South Eastern Cold Field and an alumnus of Mining Engineering, 1989 batch, and Mr. Satish Jha, CMD of Eastern Cold Field and alumnus of Mining Engineering, 1990 batch. Both gentlemen delivered inspiring speeches, sharing their professional journeys and experiences. Their insights emphasized the importance of perseverance, integrity, and continuous learning, motivating the freshers to adopt a proactive approach toward their education and career.

Following the inauguration, a series of engaging lectures were conducted over the week, addressing various relevant topics in leadership, communication, personal development, and emerging industry trends. The lectures were delivered by a range of experts and notable personalities, who brought diverse perspectives and valuable knowledge to the students. Among the speakers were Shri Niketan Kadam, IPS and Deputy Commissioner of Police (DCP) Nagpur, who shared his experiences in law enforcement and leadership; Mr. Joy Agrawal, a three-time TEDx speaker, who motivated students to embrace creativity and innovation; and Mr. Tanmay Mandhan, a TEDx speaker and

social influencer, who focused on personal branding and effective communication.

Other speakers included Mr. Parth Bajaj, an alumnus, television show host, and TEDx speaker, who highlighted the importance of storytelling and media; Mr. Sanjay Raghatate, Director of Oxford's Speakers Academy, who coached students on public speaking and presentation skills; Dr. Abhishekh Somani, who discussed the significance of health and wellness in academic success; Mr. Anurag Deshpande and Mr. Vinay Chawla, founder of Enlighten the Soul, who inspired students through their talks on mindfulness and mental strength. The series also featured Mr. Ravindra Paranjpe, who shared insights on ethical leadership and societal responsibilities.

The week-long Induction Program culminated with the Gyanodaya event held on 4th August 2025. The event was graced by the esteemed guests of honor, Dr. Shailendra Deolankar, Director of Higher Education, and Swami Raghvendra Ji from Ramkrishna Math, Nagpur. Their speeches emphasized the value of continuous knowledge acquisition and the development of a balanced, holistic personality. Dr. Deolankar spoke about the evolving educational landscape and the importance of adaptability, while Swami Raghvendra Ji highlighted the spiritual dimensions of learning and the cultivation of inner wisdom.

Overall, the Induction Program and Gyanodaya proved to be a highly enriching experience for the new students. The event successfully combined academic orientation with motivational and personal growth sessions. The involvement of alumni and eminent personalities added immense value, inspiring students to set high goals and work diligently toward achieving them. The program also fostered a sense of community, encouraging students to actively participate in academic and extracurricular activities throughout their educational journey. The event was well-received by the students, faculty, and guests alike, marking a positive beginning for the new academic year.



Mr. Satish Jha, CMD,
(Eastern Cold Field, Alumnus of Mining Engg. 1990 Batch)



Dr. Shailendra Deolankar, Director Higher Education



Swami Raghvendrananda Ji, Ramkrishna Math Nagpur



Mr. Harish Duhan, CMD, (South Eastern Cold Field,
Alumnus of Mining Engg. 1989 Batch)



Mr. Niketan Kadam, IPS & DCP Nagpur



Visit of Shri Harish Duhan and Shri Satish Jha at CIIT, RBU



Temple Events

Date	Event	Activities
01/07/2025	Sunderkand	Sunderkand by Shriramdeobaba Bhakt Kirtan Mandal
05/07/2025	Bhajan Sandhya	Bhajan Sandhya by Shriramdeobaba Bhakt Kirtan Mandal
08/07/2025	Sunderkand	Sunderkand by Shriramdeobaba Bhakt Kirtan Mandal
12/07/2025	Bhajan Sandhya	Bhajan Sandhya by Shriramdeobaba Bhakt Kirtan Mandal
15/07/2025	Sunderkand	Sunderkand by Shriramdeobaba Bhakt Kirtan Mandal
19/07/2025	Bhajan Sandhya	Bhajan Sandhya by Shriramdeobaba Bhakt Kirtan Mandal
22/07/2025	Sunderkand	Sunderkand by Shriramdeobaba Bhakt Kirtan Mandal
26/07/2025	Baba's Duj	Bhajan Sandhya by Shriramdeobaba Bhakt Kirtan Mandal, Flower Decoration by Local Artist
29/07/2025	Sunderkand	Sunderkand by Shriramdeobaba Bhakt Kirtan Mandal
02/08/2025	Bhajan Sandhya	Bhajan Sandhya by Shriramdeobaba Bhakt Kirtan Mandal
05/08/2025	Sunderkand	Sunderkand by Shriramdeobaba Bhakt Kirtan Mandal
09/08/2025	Bhajan Sandhya	Bhajan Sandhya by Shriramdeobaba Bhakt Kirtan Mandal
12/08/2025	Sunderkand	Sunderkand by Shriramdeobaba Bhakt Kirtan Mandal
16/08/2025	Shree Krishna Janamashtami	Yatra From Different Parts of City by Bharwad Samaj. Flower Decoration by Artist from Vrindavan, bhajan by RBU Students from Music Club, Dance performance By Girls / Boys Hostel Students, Janam Arti and Prasad Vitran
19/08/2025	Sunderkand	Sunderkand by Shriramdeobaba Bhakt Kirtan Mandal
24/08/2025	Baba,s Duj Bhadwa Utsav	Welcome of All Dhwaja Yatra From Various Parts of City, Flower Decoration by Artist From Vrindavan
25/08/2025	Badhai Geet	Badhai Mgeet by Kamlesh Ji Pande Local Artist, Khilona Decoration by Artist from Vrindavan
26/08/2025	Bhajan Sandhya	By Radhakrupa Bhajan Mandal, Sunderkand by Bajrang Ramayan Mandal Hariyali Nikunj Decoration By Artist From Vrindavan
27/08/2025	Ganeshji Sthapna	Ganeshji Stahpna by Students of RBU Boys / Girls Hostel
28/08/2025	Jamma	By Devendra Ji Rathi from Arvi Velvet Cutting Decoration by Artist from Vrindavan
29/08/2025	Bhajan Sandhya	By Sanjay Rathi and Group Local Artist, Chhatri Decoration by Artist from Vrindavan
30/08/2025	Garba	Garba Performance by All Bhaktas
31/08/2025	Jamma	By Shri Prakashji Shrimali Golden Temple Decoration by Artist from Vrindavan
01/09/2025	Dadi Path	By Rani Sati Prachar Samiti
02/09/2025	Bhajan Sandhya Utsav Pooran	By Shri Ramdeo Kirtan Sangam
09/09/2025	Sunderkand	Sunderkand by Shriramdeobaba Bhakt Kirtan Mandal
13/09/2025	Bhajan Sandhya	Bhajan Sandhya by Shriramdeobaba Bhakt Kirtan Mandal
16/09/2025	Sunderkand	Sunderkand by Shriramdeobaba Bhakt Kirtan Mandal
20/09/2025	Bhajan Sandhya	Bhajan Sandhya by Shriramdeobaba Bhakt Kirtan Mandal
23/09/2025	Baba's Duj	Bhajan Sandhya by Shriramdeobaba Bhakt Kirtan Mandal Fower Decoration by Local Artist
30/09/2025	Sunderkand	Sunderkand by Shriramdeobaba Bhakt Kirtan Mandal



RBU
RAMDEOBABA UNIVERSITY, NAGPUR
Formerly Shri Ramdeobaba College of Engineering & Management (RCOEM) Est. 1984
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