



VISIONARIES



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



**Shri Satyanarayanan 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

### Choose Morality Over Success: Shri Satyanarayanan Nuwal

As a part of newly launched Leadership Connect initiative, Ramdeobaba University (RBU) hosted



a remarkable first-ever fireside chat on 11th April with Satyanarayanan Nuwal, Founder and Chairperson of Solar Industries India Ltd, and currently ranked 57th on the Forbes India Rich List (2025). Addressing the students, Satyanarayanan Nuwal said students should choose morality over success. The fireside chat was a once-in-a-lifetime experience for many students, blending business wisdom with timeless life values.

### From Ideas to Impact: TBI Foundation Fuels the Future Entrepreneur at Ramdeobaba

"Give students the right ecosystem, and they'll build the future". That's exactly what Ramdeobaba University does for its students. RBU has been committed to fostering remarkable talent and nurturing innovators across diverse academic disciplines. The university has been guiding and helping numerous students to achieve their dreams and become successful entrepreneurs.

From Idea to Impact: The RCOEM TBI Foundation – Section 8 not-for-profit company, was created to turn student ideas into real-world startups. Since its start in 2016, the Foundation has rooted over 75+ startups ideas with hands-on mentorship, structured incubation, and access to funding through angel investors, VCs, and government grants. The university aims to empower early-stage entrepreneurs and translate ideas into viable business ventures. What truly stands out is

that 15 student ventures received their first investment / funding directly from the university.

Among its many success stories, the Foundation proudly highlights a few standout ventures that capture the spirit of innovation and ambition nurtured within the university.

### Innovanza'25: A Grand Celebration of Innovation and Excellence

#### School of Computer

Science and Engineering, Ramdeobaba University (RBU) proudly hosted Innovanza 25: the highly anticipated National level Project Competition that brought together some of the brightest minds in technology and innovation. The event was a vibrant showcase of creativity, critical thinking, and futuristic ideas aimed at shaping a better future.

This event united 275+ teams and around 1300+ participants across India, providing a dynamic platform for innovation, bridging academia with industry, and showcasing innovative student projects in a two-stage championship.



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## Letter from The Editor

The April–June 2025 quarter at the university was marked by vibrant academic, cultural, and research activities. The highlight of the quarter was the visit of the NBA Committee, which emphasized quality education and institutional excellence. Several faculty development programs, expert talks, and workshops were conducted to enhance teaching and research skills.

Students showcased their talents through cultural festivals, sports competitions, and innovation projects, reflecting the institution's focus on holistic development. Notable expert lectures in emerging areas such as forensic science, AI-driven learning, and sustainable technologies enriched the academic discourse.

The university also strengthened its outreach through community engagement programs, social awareness drives, and collaborations with industry and research bodies. Achievements by students and faculty in competitions and conferences brought recognition at regional and national levels.

Overall, the quarter reflected a dynamic blend of academic rigor, innovation, and community spirit, reinforcing the university's commitment to excellence in education and societal contribution.

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 :

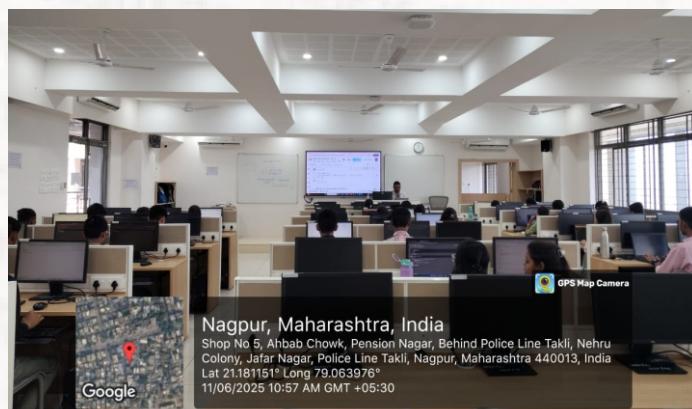
**1] One Month internship** program on “**Machine Learning**” was conducted from June 1, 2025, to July 28, 2025 for students of **Electronics & Telecommunication** of St. Vincent Pallotti College of Engineering and Management, Nagpur from 10.30 am –5.30 pm,

held by RCOEM-TATA-CIIIT. A total 21 students participated and training/ internship was conducted by Dr. Amit Pimpalkar, Dr. Nisarg Gandhewar and Technical Assistant Mr. Shubham Prasad, Mr. Utkarsh Gupta of School of Computer Science and Engineering.



**2] Three Month's internship** program on “**Internet of things (IoT), Machine Learning (ML), Embedded System, Python Programming**” was conducted from 2nd June 2025 to 30th June 2025 and will be continued up to 30th August 2025 for students of **Electronics & Telecommunication**

Engineering of **Government Polytechnic, Gondia** from 10.30 am –5.30 pm, held at RCOEM-TATA-CIIIT. A total 11 students participated and internship was conducted by Dr. Amit Pimpalkar, Dr. Nisarg Gandhewar, Dr. Chitraja Rajan, Dr. Yogesh Joshi, Dr. Poorvi Joshi and Technical Assistant Mr.Umendra Mukurne.



## [B] Consultancy & Project

- **Mr. Shruti Sharma (ECE)** & team printed 3D parts for the project of the “**Prosthetic Arm**” 3D software design model under the Guidance Prof. Ashlesh Jaiswal on **April 01, 2025**.
- **Mr. Ganesh Moroliya & Team (ECE)** final year students printed 3D parts for the explore patent opportunities for major project of “**Pill Dispensing Medicine Assistant**”, 3D software design model, on **April 04, 2025**.



- **Mr. Amogh Muthal** (Electronics Department) printed 3D parts for the project “**hardware Development for Arsenic Detection in water**” print for the prototyping 3D software design model on **April 08, 2025**.

- **Mr. Prajwal Sontakke & Lalit Nikhade** (Electrical Dept.) printed 3D parts for the explore patent opportunities for major project of “**Human Breath Simulator**”, 3D software design model, on **April 21, 2025**.



## [C] Guest Lecture & Lab Utilization

- **Mr. Prajwal Sontakke (EE)** Utilization on Laser Cutting & Engraving machine for the project of “**Human Breath Simulator**” under guidance of Dr. Prachi Salodkar on May 16, 2025.

- **Mr. Vani Kaushik (BME)** Utilization on Laser Cutting & Engraving machine for the project of “**AIML Assisted PoCT system to detect various biomarkers/neurotransmitters**” under guidance of Prof. Jitendra Zalke on May 19, 2025.

- **Mr. Tejas Bhandarkar (TBI-BeRAM Pvt. Ltd. [Founder])** Utilization on Laser Cutting & Engraving machine for the project of “**for start-up**” under

guidance of Dr. Pais sir on June 14, 2025.

- **Mr. Aryan Kothari (ECE)** Utilization on Laser Cutting & Engraving machine for the project under guidance of Dr. Sangeeta Palekar on June 27, 2025.

- **Ms. Utkarsha Wankhede** (Research Scholler) Utilization on 3D printer facility for the project of Device fabrication on May 14, 2025.

- **Mr. Rajat Moon (ME)** Utilization of Design Lab for the work on ADAMS Software for their project on May 14, 2025.

- **Mr. Harsh Sharma (ME)** Utilization on 3D printer for the print 3D parts for their project on June 06, 2025.

## Visit of Eminent Persons to RCOEM-TATA-CIIT





## School of Computer Science and Engineering

### Department of Computer Science & Engineering and Emerging Technologies

#### Faculty Corner

#### Publications

1. Uma Yadav published a paper titled 'Primary phase Alzheimer's disease detection using ensemble learning model' in IAES International Journal of Artificial Intelligence, ISSN: 2241-4487, Volume 15, Issue 3, Pages 22786 - 22791, April 2025, Scopus.
2. Uma Yadav published a paper titled 'A Hybrid Approach for Robust Deep Fake Image Detection using Spatial and Frequency Domain Features' in Engineering, Technology and Applied Science Research, ISSN: Volume 15, Issue 3, Pages 22786 - 22791, June 2025, Scopus.
3. Uma Yadav published a paper titled 'Revolutionizing Tuberculosis Prediction: A Cutting-Edge Approach' in International journal Engineering, Technology and Applied Science Research, ISSN: 2241-4487, Volume 15, Issue 3, Pages 22786 – 22791, June 2025, Scopus.
4. Vikas Ambekar, A Theja, Meena Panchore, Chithraja Rajan, Bhumika Neole published a paper titled 'Investigation of ITC Impact on Negative Bias HJVTFET for Implementing Universal Logic Gates' in International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, ISSN: 1099-1204, Volume38, Issue3, June 2025, SCIE & Scopus.
5. Chithraja Rajan, Aditya R Babulkar, Karishma Nakhathe, Meena Panchore and Kaushal Nigam published a paper titled 'A Hybrid Machine Learning Model to Predict Reconfigurable FET Characteristics with Limited Dataset' in International Journal of Semiconductor Science and Technology, I S S N : 1 3 6 1 - 6 6 4 1 , 1 0 . 1 0 8 8 / 1 3 6 1 - 6 6 4 1 / ade7f3, June 2025, SCIE & Scopus.
6. Aarti Karandikar, Mrunal Lad, Abhishek Mishra published a paper in Automated Lunar Crater Detection using YOLOv8 on Chandrayaan-2 Imagery, June 2025, Scopus.
7. Aarti Karandikar, Ashwini Zadgaonkar, Rohit Pawar, Ashwini Gote published a paper titled Hybrid quantum inspired multi-objective optimization framework for self-healing, June 2025, Scopus.
8. Pranali Dandekar, Dr. A. Raipurkar published a paper titled Enhanced Low-resolution Face Recognition through Bidirectional GRU with Attentional Focus in Int. J. Adv. Sci. Eng. Vol.11 No.4 4724-4734(2025)4724, 2349 5359; P-ISSN: 2454-9967, June 2025, Scopus.
9. Amit Pimpalkar, Vishnu Kant Soni, Vivek Shukla, S. R. Tandan, Amit Pimpalkar, Neetesh Kumar Nema, Muskan Naik published a paper titled 'Performance Evaluation of Efficient and Accurate Text Detection and Recognition in Natural Scenes Images Using EAST and OCR Fusion ' in International Journal of Advanced Computer Science and Applications, (IJACSA), ISSN: 2156-5570, Volume 16 Issue 1-, April 2025, SCIE.
10. Amit Pimpalkar, Nilesh Shelke, Rachna Somkunwar, Amit Pimpalkar, Sudhanshu Maurya, and Sharda Chhabra, Shingne Harshala published a paper titled Ensemble Efficient Net: a novel technique for identification, classification and prediction of diabetic retinopathy in Automatic Journal for Control, Measurement, Electronics, Computing and Communications, ISSN:0005-1144, June 2025, SCIE.
11. Supriya Gupta Bani, Khushboo Marwadi, Lakshmi Narasimhan Srinivasagopalan, Dr. Syed Umar, Dr. Nilesh T. Gole, Dikshendra Dualat Sarpate published a paper titled The Impact and Future of Computer Applications in Various Sectors using the IoT concept of Augmented Reality in Nanotechnology Perceptions, ISSN:16605-6795, April 2025, Scopus.
12. Priya Parkhi, Harshala Shingne, Diptee Chikmurge, Poorva Agrawal published a paper titled Design of an integrated model using deep reinforcement learning and Variational Autoencoders for enhanced quantum security in MethodsX, Volume 15, June 2025, Scopus.
13. Urmila Shrawankar, Shatakshi Kokate published a paper titled IoT Data Transmission Security Using Blockchain With a Trust-Weighted Proof of Authority Consensus Mechanism in Healthcare in Transactions on Emerging Telecommunications Technologies, ISSN : 2161-3915, SCI Scopus 2025.
14. Urmila Shrawankar, Girish Talmale published paper titled Analysis and Performance Measure of Dynamic Cluster Based Hierarchical Real Time Scheduling for Distributed Systems in Concurrency and Computation-Practice & Experience, ISSN:1532-0626, May 2025, SCI&Scopus.
15. Sruthi Nair, Parul Sahare, Paritosh Peshwe published a paper titled SkSpO-L2TDBM: optimized drug name recognition using a large language-based time-distributed deep learning model in Knowledge and Information Systems, ISSN:2191377, Volume 67, pages 7641–7667, May2025, SCI& Scopus.
16. Sruthi Nair, Monica K, T Panse, Yashika A, Rupali S, Tejas R. Patil, Niteen T, Sruthi Nair, Nilesh Shelke, Haytham F, V. Vairagade published paper titled Hybrid Machine Learning Based Strength and Durability Predictions of Polypropylene Fiber-Reinforced Graphene Oxide Based High-Performance Concrete in Iranian Journal of Science and Technology, Transactions of Civil Engineering, ISSN: 2364-1843, April 2025, Scopus.
17. Gunjan Keswani, Manoj B. Chandak published paper titled Enhancing database query interpretation: a comparative analysis of semantic parsing models in International Journal of Informatics and Communication Technology (IJ-ICT), ISSN: 2252-8776, April 2025, Scopus.
18. Pravin Kumar M. Sonsare, Roshni Khedgaonkar, Kavita Singh, Pratik Agrawal published a paper titled Environmental applications of molecular graph learning: Graph neural network-based prediction of partition coefficients in Asian Journal of Water, Environment and Pollution, ISSN:1875-8568, May 2025, ESci & Scopus.
19. Rasika Rewatkar, Nitin Chopde, Ghanshyam Chavan, S. Subathra published a paper titled Design and Optimization of Targeted Nanoparticles for Delivery of Quercetin from Allium Cepa for Treatment of Colorectal Cancer in Journal of Neonatal Surgery, ISSN:2226-0439, Volume 14, April 2025, Scopus.
20. Rasika Rewatkar, Hajera Sana, Dharmasoth Rama Devi, Shetkar Lahuraj published paper titled 'Phytochemical and In Silico Prediction on A Medicinal Tree Vitex Negundo For Antimicrobial Potential' in Journal of Neonatal Surgery, ISSN:2226-0439, May 2025, Scopus.
21. Hitesh Gehani, Dubey, P., Nayak, M., Keswani, V., Dubey, P. published a paper titled Enhancing realism in handwritten text images with generative adversarial networks in Bulletin of Electrical Engineering and Informatics, ISSN:2089-3191, June 2025, Scopus.
22. Hirkani Padwad, Nischal Puri, Sneha A. Sahare, Ashwini C. Gote, Tejas R. Patil Niteen T. Kakade published a paper titled Hybrid metaheuristic optimization algorithm for prediction of fatigue life performance of fibre-reinforced concrete in Asian Journal of



Civil Engineering, Volume 26, pages 3245–3256, June 2025, Scopus.

23. Hirkani Padwad, Nischal P. Mungle, Sumit Kumar, Dnyaneshwar M. Mate, Sham H. Mankar, Tejas R. Patil, Hirkani Padwad, Niteen T. Kakade, Nilesh Shelke, Haytham F. Islemen & Vikrant S. Vairagade published a paper titled Hybrid high-performance computing enhanced machine learning framework for Nano-thermal conductivity in MWNT-oil-based solar cooking systems in Journal of Engineering and Applied Science, ISSN:1110-1903, June 2025, Scopus.

24. Yogesh Thakare, Akshay Utane, Sharad Mohod, Firdos Sadaf published a paper titled "An Ensemble learning with deep feature extraction approach for recognition of traffic signs in advanced driving assistance systems" in J. Integr. Sci. Technol., May 2025, Scopus.

25. Yogesh Thakare, Amol S. Kulkarni, Sarika Khandelwal, Jyoti Rangole, Madhusudan B. Kulkarni, Manish Bhaiyya published a paper titled A Review on 3D-Printed Miniaturized Devices for Point-of-Care-Testing Applications in Biosensors, May 2025 SCI.

26. Kanak Kalyani, Santosh Kumar Sahu, Anil S. Mokhade, Pratik K. Agrawal published a paper titled Utilizing Supervised Machine Learning and Technical Indicators for Quantitative Trading to Improve Stock Market Trading Decisions in SN Computer Science, May 2025, Scopus.

27. Urmila Shrawankar, Satyajeet Shinge published a paper titled Empowering Education Industries with a Cloud Based IoT Framework in 2025 4th OPJU International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 5.0, April 2025, Scopus.

28. Urmila Shrawankar, Shatakshi Kokate published a paper titled Trust-Based Proof-of-Authority Consensus for Secure and Scalable Blockchain in Industry 5.0 IoT Networks in 2025 4th OPJU

International Technology Conference (OTCON 4.0) on Smart Computing for Innovation and Advancement in Industry 5.0, April 2025, Scopus.

29. Yogesh Thakare, Ms. Janhavi Kulkarni, Ms. Ishika Javeri, Ms. Jessica Sajwani, Mr. Shubham Maskare Published a paper titled Commodity Price Prediction Using Machine Learning: Insights, Challenges, and Prospect in 2025 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence (RAEEUCCI), April 2025, IEEE.

30. Dr. Shubhangi Neware, Himanshu Sharma, Dhyaneesh Dharmik, Ayush Yadav, Utkarsh Awasthi published a paper titled Object Detection in Indoor Environment to Assist Visually Impaired Individuals at Office Work in 2024 OITS International Conference on Information Technology (OCIT)-ICAIQSA-2024, April 2025, IEEE.

31. Dr. Sweta Jain, Atharva Pawar, Aryan Dhait, Atharva Nagbhidkar, Arya Narlawar published a paper titled Federated Learning for Privacy Preserving in Healthcare Data Analysis in IEEE Conference on Artificial Intelligence and Quantum Computation - Based Sensor Applications, April 2025, IEEE.

32. Dr. Praful Pardhi, Abhijeet Raipurkar, Shailendra S. Aote published a paper titled A Blockchain - Based Framework for Secure and Decentralized Document Integrity Using Filecoin and Smart Contract in 2024 OITS International Conference on Information Technology (OCIT), April 2025, IEEE.

33. Dr. Praful Pardhi, Saurabh Wagh, Gaurav Sharma, Abhash Goyal and Pavan Pawar published a paper titled Enhancing Personalized Fitness: Integrating Large Language Model in First International Conference on Engineering and Technology for a Sustainable Future (ICETSF-2025), April 2025, WOS.

34. Dr. Abhijeet R. Raipurkar, Praful R. Pardhi, Anushka Zade, Palak Agrawal, Nisha Jain, Akshat Deshmukh published a paper titled A Blockchain - Based Framework for Secure and Decentralized Document Integrity Using Filecoin and Smart Contract in 2024 OITS International Conference on Information Technology (OCIT), April 2025, IEEE.

35. Dr. Devisree Naidu, Ms. Arina Noor published a paper titled AI-Powered Human Activity Recognition for real time detection of inactive workers in the workspace in First International Conference on Engineering and Technology for a Sustainable Future (ICETSF-2025), April 2025, WOS.

36. Dr Nisarg Gandhewar, Mathur Nadarajan Kathiravan, Kalaiarasi G, Garaga Srilakshmi, Guntu Nooka Raju published a paper titled Leveraging IoT & CNN-CBAM for Early Blight Detection and Optimal Fungicide Application in Potato and Tomato Crops in International Conference on Distributed Systems, Computer Networks and Cybersecurity (ICDSCNC), April 2025, IEEE.

37. Pranali Dandekar, Abhijeet Raipurkar, Shailendra S. Aote published a paper titled Deep Learning-Based Resolution Enhancement Framework for Low-Resolution Images in 2025 International Conference on Machine Learning and Autonomous Systems (ICMLAS), April 2025, IEEE.

3. Dr. Sweta Vinod Kumar Jain attended Faculty Development Program- "Data Science and Optimization Techniques" at YCCE, Nagpur.

4. Uma Yadav attended Faculty Development Program- Recent Advancement in AIML at St. Joseph College in association with NIT Surathkal and Pantech E-learning.

5. Poonam Agarkar attended a One Week Online Faculty Development Programme - Open PLC with LDMicro at Edu Pyramids, SINE, IIT Bombay and YCCE, Nagpur.

## Departmental Activities

### GDG Chapter

GDG on Campus, RBU Chapter, organized an intra-college workshop named Web Wizard 3.0 on 05/04/2025. Web Wizard 3.0 marked the third edition of our flagship web development series, designed to take participants from the basics to advanced level in web designing. With the theme of empowering budding developers to unleash their inner web wizard, the event saw enthusiastic participation from students and developers alike. A total of 93 students participated in the workshop.

### Event Overview

Web Wizard 3.0 marked the third edition of our flagship web development series, designed to take participants from the basics to advanced level in web designing. With the theme of empowering budding developers to "unleash their inner web wizard," the event saw enthusiastic participation from students and developers alike.

- Expert Mentorship: Sessions were led by experienced mentors from the field of web development, ensuring high-quality learning.
- Insightful Sessions: Covered a wide range of topics including latest trends, modern technologies, and best practices in web development.

### STTP/FDP/Other Training Attended by Faculty

1. Prof. Neha Tirpude, Dr. Vasundhara Rathod, Dr. Shubhangi Neware, Dr. Charanjeet Dadiyala, Prof. Khushboo Khurana, Dr. Vishwanath Karad attended FDP at MIT World Peace University, Pune
2. A. Karandikar attended a Training Program- Effective communication and interpersonal skills for technical faculty organized by NITTTR, Bhopal.



## ACM Chapter : Event-1: Innovanza

Innovanza'25: the highly anticipated National level Project Competition that brought together some of the brightest minds in technology and innovation. The event was a vibrant showcase of creativity, critical thinking, and futuristic ideas aimed at shaping a better future. The first round of the event was conducted on 10th May 2025 and final round was conducted on 14th May 2025. This event united 275+ teams and around 1300+ participants across India, providing a dynamic platform for innovation, bridging academia with industry, and showcasing innovative student projects in a two-stage championship.

Innovanza'25 served as a platform for students to apply their theoretical learning to practical scenarios, with a special emphasis on recent computing technologies. The project competition featured ground breaking solutions that demonstrated technological advancements and problem-solving capabilities. 56 teams were shortlisted by 35 Industry Professionals and 5 teams were identified in the Championship Round by topmost Industry CEOs and Founders. This Innovanza'25 has seen a great industry collaboration with top companies, including TCS, Persistent, Global Logic, L&T Infotech, Tech Mahindra, Infocepts, Deloitte, Accenture, LTI Mindtree, Converge AI, Rainbow Services and many more.



### Students Being Awarded

Teams were awarded with cash prizes. First prize of Rs.20000, Second prize of Rs.15000, Third prize of Rs.10,000 along with two consolation prizes of Rs.5000 per team. Beyond the cash prizes, our commitment to innovation does not stop here. RBU extends full support for patent filing, ensuring that ground-breaking ideas do not just remain as a project but can transform into successful products with real world impact. Through Innovanza'25, internship opportunities and potential product commercialization is open to the participants.

## Students' Corner

### Toppers List

#### Programme: CSE (IV Sem)

Sr. No.	Name	CGPA
1)	AMEYA PRASHANT KATHALE	10.00
2)	GRISHA GIRISH LALA	10.00
3)	HARSHIT SAHU	10.00

#### Programme: CSE (VI Sem)

Sr. No.	Name	CGPA
1)	ANKIT RAJESH PANDE	10
2)	KSHITIJ ANAND KASHYAP	10
3)	VAIBHAV MANOJ SINGHAVI	10
4)	VIDYASAGAR NITIN DADILWAR	10

#### Programme: CSE (VII Sem)

Sr. No.	Name	CGPA
1)	VEDANT RAMESH BHUTADA	10
2)	GODWIN - SHALOM	10
3)	SUJAL RAVISHANKAR AGRAWAL	10
4)	SUJYOT SUBHASH KOTHALE	10

## Student Achievements

A team of students from VI Semester, Section-B, Computer Science and Engineering Department, comprising Aboli Patne, Akshay Padia, Rashi Pote, and Khushi Mantri, achieved 1st position in the prestigious Raison Summer of Code, a state-level inter-college technical competition. The event was organized by G.H. Raison College of Engineering, Nagpur, and held on April 3, 2025.

The competition spanned 6 hours and involved challenging coding tasks designed to test participants' technical acumen, logical thinking, and collaborative problem-solving. Competing against teams from various colleges, the team demonstrated excellence in algorithmic thinking and efficient code implementation, ultimately securing the top position and a cash prize of ₹3000.



## Green Pioneer 2025

### Hackathon

A team of students from VI Semester, Section-B, Computer Science and Engineering Department comprising Ansh Choube, Vidyut Chakrabarti, and Yogeshwar Tiwari secured 1st position in the Green Pioneer 2025 Hackathon, an international-level inter-college technical competition organized by YPSTEM. The event was conducted online over a span of 24 hours, from February 21 to March 2, 2025.

Focused on sustainable and green technology innovations, the hackathon challenged participants to propose impactful tech-based solutions for

environmental and societal issues. The team's solution stood out among international submissions, earning them the winner's title and a cash prize of \$120.

## Academics Achievements



**Godwin Shalom**, a final year B.Tech student from the Department of Computer Science and Engineering, has achieved an impressive All India Rank 119 in GATE CS 2025.



## School of Electrical and Electronics Engineering

### Department of Electrical Engineering

#### Research & Publications

##### Publications in High-Impact Journals:

1. Hitesh Maidurkar, Prachi Salodkar have published a paper titled “Electric Vehicle Control Protocol for on Board System” in the 1st International Conference on Sustainable Energy Technologies and Computational Intelligence: Towards Sustainable Energy Transition, SETCOM 2025 (Scopus Indexed Conference).
2. Dr. S. D. Naik has published a paper titled “Determination of Proximity to Voltage Instability Under Severe Line Outage Using Customized Artificial Neural Network” in International conference on Recent Innovations and Trends in Electrical & Electronics Engineering and Computing (RITEEC 2025) National Institute of Technology, Patna, Bihar, India, 22- 23 May 2025. (Scopus Indexed Conference).
3. Dr. S. D. Naik has published a paper titled “Harmonic Reduction in Power System” in GRENE International Journal of Engineering and Technology, Volume 11, Issue 2, June 2025 (Scopus Indexed).
4. Dr. Shankarshan Prasad Tiwari has published a paper titled, “A protection scheme based on machine learning-based algorithm for fault detection in microgrid considering line to ground faults and weather scenarios in the Asian Region” in Electrical Engineering with ISSN 1432-0487, (SCIE Journal) 09 April 2025.
5. Dr. Shankarshan Prasad Tiwari has published a paper titled, “A Robust protection scheme to identify ground faults in DC Ring microgrid using ensemble of LDA based algorithm” in International Conference on Power, Control and Computing Technologies, (ICPC2T), doi : 10.1109/ICPC2T63847.2025.10958580, (Scopus Conference) 17 April 2025
6. Dr. Shankarshan Prasad Tiwari has published a paper titled, “A protection scheme based on SVM-KNN for pole-to-ground and pole-to-pole fault detection in DC microgrid” in Power System Management: Advances and Applications with ISBN 9781003516156 (Scopus indexed) 24 June 2025
7. Dr. Preeti V. Kapoor, Anish Bhalerao, Uday Mujumdar have published a paper titled, “Enhanced Solar Power Prediction using Polynomial and Gradient-based Variational Techniques” in Advances in Nonlinear Variational Inequalities ISSN: 1092-910X Vol 28 No. 7s (April 2025).
8. Dr. Sonali Rangari, Preeti Kapoor, Gaurav Shukla, Anil Ughade have published a paper titled, “Adaptive Fuzzy Logic Control for H-Bridge Inverter in Single Phase Motor Applications under Dynamic Load” in Advances in Nonlinear Variational Inequalities ISSN: 1092-910X Vol 28 No. 7s (April 2025).
9. Prof. Manisha Gaikwad has published a paper titled, “Smart Grid Technologies: AI and ML for Enhanced Energy Management” in Journal of Metallurgical and Materials Engineering ISSN: 2812-9105(online) Vol 31 (1) 2025 p. 763-771 May 2025.

##### Patent / Prototype/ Startup News:

1. A Design patent has been granted for an invention titled “Wall Chandelier” filed by Dr. P. A. Salodkar on 01/02/2025.
2. A Design patent has been filed for an invention titled “Step driven Piston Pump Actuator 458333-001” by Dr. P.A. Salodkar on 01/02/2025

3. A Utility Patent has been filed for an invention titled “A Uni-directional Step-

driven Piston Pump Actuator” 202521060382 published on 25/07/2025.

##### Conferences/ STTP/ FDP/MDP/Workshop/ Seminar etc. Attended or Organized by Faculty

1. Prof. M. B. Gaikwad have successfully completed 40 hrs. Faculty Development Program Sponsored by the Ministry of Electronics and Information Technology (MeitY) Government of India on “Industrial Power Electronics for Sustainable Microgrids and E-Mobility” organised by E & ICT Academy, NIT Warangal, Telangana State, in association with Department of Electrical Engineering, NIT Jamshedpur, Jharkhand during 15th April, 2025- 26th April, 2025.
2. Prof. M. B. Gaikwad have successfully completed two-week online Faculty Development Program on “Leveraging Advanced Power Conversion Systems and Artificial Intelligence for Electric Vehicles.” Organized by Electronics and ICT Academy, NIT Patna and NIT Tiruchirappalli 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 during 08th May, 2025- 21st May, 2025
3. Prof. M. B. Gaikwad have successfully completed one-week online Faculty Development Program on “Recent Advancements in Electric Vehicles Technology” organized by the Department of Electrical Engineering, Indian Institute of Technology, Patna, during the 09th June, 2025- 13th June, 2025.

##### Faculty Highlights

##### Promotions, Awards, Ph.D. Awarded or Honors

Prof. M. B. Gaikwad received Certificate of Appreciation for serving as Reviewer in 2nd International Conference on “Sustainable Power and Energy Research” (July 11-12, 2025) jointly organised by Department of Electrical Engineering, National Institute of Technology Srinagar, J & K and National Institute of Technology Warangal, Telangana.

##### Alumni Achievements

##### Mr. Nikhilesh Chandak B.Tech, Electrical Engineering 2025

The Department of Electrical Engineering is proud to feature its alumnus, Mr. Nikhilesh Chandak, who is presently serving as the Managing Director of Chandak Electricals. In this role, he is spearheading the company's diversification into MEP Contracting, Turnkey Electrical Contracting, and Industrial Products Trading, with

a vision of establishing the firm as a leading name in the industry and expanding operations Pan-India.

Alongside his professional growth, Mr. Chandak continues to remain connected with the department and the institution. A former Student Representative Council (SRC) member (2023-24), he has expressed keen interest in contributing to the development of student bodies such as SRC and NSS. By leveraging his professional network, he aspires to create valuable learning and career opportunities for students.

##### Media Mentions & Press Coverage

A news item “Electrical Engineering Powered by Artificial Intelligence launched at Ramdeobaba University” has been published in the Newspaper. This press note highlighted the initiative of Ramdeobaba University and Department of Electrical Engineering to launch the B.Tech program in Electrical Engineering Specialization AI and applications.



## Department of Electronics and Communication Engineering

### Departmental Highlights:

### Academic Achievements

### New courses launched –

An open elective course “**DevOps for Cloud Infrastructure**” is launched for B. Tech 2024-25 admitted batch by Industry experts from **Irdeto B.V.**, a Noida based industry. These courses are designed to be industry-relevant, and are offered as 2-credit course with a minimum of 25 lecture hours per course by **Irdeto B. V.** The industry resource persons are-

#### i) Mr. Shubham Deshpande

Technical Team Lead – SOC, Irdeto (Noida) – An alumni from EC, RCOEM, Nagpur

#### ii) Mr. Akshit Gupta

DevOps Engineer, Irdeto (Noida)

### Research & Publications

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

1. Dr. S. B. Pokle published a paper “Solarpaint cars: A new evolution for EV’s” in International Journal of Innovative Research in Technology, ISSN: 2349-6002, UGC Approved, peer reviewed, Impact factor 7.37, Vol. No. 11, Issue 11, April 2025, pp-2008-2011.
2. Dr. S. B. Pokle published a paper “Skin disease detection using efficient Net BO convolutional neural Network” in International Journal for Research in applied Science & Engineering Technology (IJRASET), Vol. 13, Issue V, May 2025, ISSN: 2321-9653, IC value: 45.98, SJ Impact factor: 7.538, DOI: <https://doi.org/10.22214/ijraset.2025.69422>.
3. Dr. S. B. Pokle and Prasheel Thakre published a paper “Optimizer-based power allocation and sub-channel assignment model in NOMA” in International Journal on Biomedical Signal Processing and Control, 110 (2025) 108179,
4. Dr. Rohini S. Ochwar and Snehal Laddha authored the paper titled “Feature-Driven EnsembleX: An Advanced Ensemble Framework for Enhanced MRI Abdomen Image Classification Using Feature Refinement and Boosting Techniques” published in June 2025. Journal IEEE Access, Electronic ISSN: 2169-3536 (Volume: 13), DOI: 10.1109/ACCESS.2025.3584785, SCIE Indexed.
5. Dr. Rajesh Raut and Shyam Deshmukh et al. published a research article titled “Exploring Alternative Techniques for Accelerating Deep Learning Convergence for Batch Normalization” in the Journal of Information and Optimization Sciences (Print ISSN: 0252-2667, Online ISSN: 2169-0103), May 2025. Indexed in ESCI, DOI: <http://doi.org/10.47974/JIOS-1900>.
6. Dr. Pallavi K. Parlewar and Nishant Borkar, authored a research article titled “Antipodal UWB Antenna with Directivity for Microwave Tomography and Reconfigurable Design for Biomedical Applications” in the International Journal of Applied Electromagnetics and Mechanics, published in April 2025. SCIE, DOI: 10.1177/1383541625133606
7. Dr. Dipak J. Dahigaonkar and Preety Singh et al. published a paper titled “Leveraging Speech for Dynamic Image Captioning: A MobileNetV3 and LSTM Approach” in the Journal of Theoretical and Applied Information Technology, Vol. 103, Issue 10, May 2025 (ISSN: 1992-8645). The paper is indexed in Scopus and Thomson Science Citation Index Expanded.
8. Dr. Dipak J. Dahigaonkar and S. G. Kale et al. published a research paper titled “Leveraging Machine Learning for Real-Time Optimization in Large-Scale Information Systems” in the Journal of Information and Optimization Sciences (ISSN: 0252-2667), June 2025. (ESCI).
9. Dr. Bhumika Neole, Meena Panchore, and Vikas Ambekar published a research paper titled “Investigation of ITC Impact on Negative Bias HJVTFET for Implementing Universal Logic Gates” in the International Journal of Numerical Modelling: Electronic Networks, Devices and Fields (Impact Factor: 1.7), May 2025. The paper is indexed in SCIE and is published by John Wiley & Sons, Ltd. It is available online at <https://doi.org/10.1002/jnm.70057>, Online ISSN: 1099-1204, Print ISSN: 0894-3370.
10. Dr. Bhumika Neole, Meena Panchore, and Parimal Shah published a paper titled “Drone-based High-resolution Air Pollution Monitoring: A Comprehensive System and Field Evaluation” in the Bulletin of Electrical Engineering and Informatics, June 2025. The paper is indexed in Scopus. DOI: 10.11591/eei.v14i3.8592.
11. Bhumika Neole and Mahantesh Mattada published a paper titled “Optimizing Neural Radiance Field: A Comprehensive Review of the Impact of Different Optimizers on Neural Radiance Fields” in the Bulletin of Electrical Engineering and Informatics, 2025. Indexed in Scopus. DOI: 10.11591/eei. v14i1. 8315.
12. Dr. P. R. Selokar has published a paper titled, “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).
13. Dr. Prasanna P. Deshpande, Ketul Brahmbhatt, Binu B. Pillai, Anirban Bhaduri, Himanshu Gakhar, Ranjit Singh, and Kshiteej Jaiswal published a paper titled “Bioengineering Applications of Intelligent Systems: From Medical Robots to Robotic Rehabilitation Devices” in the Journal of Information Systems Engineering and Management (ISSN: 2468-4376), January 2025. (Indexed in Scopus) DOI: <https://doi.org/10.52783/jise.m.v10i4.10182>.
14. Prof. Puja S. Agrawal and Dr. A.A. Khurshid published a paper titled “A Secure and Robust Watermarking Method Based on Evolutionary Optimization for Embedding Parameters” in Circuits, Systems, and Signal Processing, May 2025. Indexed in SCIE. ISSN: 0278-081X (Print), 1531-5878 (Electronic), DOI: 10.1007/s00034-025-03120-x.
15. Prof. Puja S. Agrawal published a paper titled “Adapting to Change: The Power of Agile Management in Challenging Times” in Metallurgical and Mechanical Engineering on April 27, 2025. The paper is indexed in WoS (ESCI). ISSN: 2217-8961 / 2812-9105, Volume: 31, Pages: 668-672, Impact Factor (IF): 0., DOI: 10.63278/1292.
16. Prof. Puja S. Agrawal authored a book chapter titled “Digital Twins in Renewable Energy Systems: Enhancing Efficiency, Projecting Sustainability” in the edited book Leveraging AI for Innovative Sustainable Energy: Solar, Wind and Green Hydrogen, published in April 2025. Indexed in Scopus, ISBNs: 979-833730047-4, 979-833730045-0, DOI: 10.4018/979-8-3373-0045-0.ch009.
17. 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

18. S. Tiwari , J. Sengupta , Bhumika Neole , Ankita H. Harkare, Published a paper titled “Magic matrix-based discrete phase shifts allocation in RIS-assisted downlink NOMA system”, in Physical Communication. 2025 Jun 11:102725.-Sci-E
19. Ankita H. Harkare, I Patne , A Jain, K Bobade, A A 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

20. Mr. Nitin Chakole, Mayuri Tushar Deshmukh, P. R. Wankhede, Pawan D. Kale, Mahendra R. Jadhav, Madhusudan B. Kulkarni, and Manish Bhaiyya published a research article titled “Towards Intelligent Food Safety: Machine Learning Approaches for Aflatoxin Detection and Risk Prediction” in Trends in Food Science & Technology (Vol. 15, July 2025, ISSN: 0924-2244). (SCIE) DOI: 10.1016/j.tifs.2025.105055

## Patent News

1. Ankita H. Harkare was granted design patent on SQUARE CUT PATCH ANTENNA ; design number: 446358-001 on 07/05/2025.
2. 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.
3. Ankita H. Harkare was granted design patent on PATCH ANTENNA ; design number: 446359-001 on 15/05/2025.

## Departmental Activities

### Seminars Organized

#### Expert Lecture by IEEE Fellow

The Electronics and Communication Engineering organized a guest lecture on 3rd May 2025 by Prof. Georges ZISSIS, FIEEE, Vice-Dean, University of Toulouse, France. Held in Lecture Hall DT109, the event saw participation from School of Electrical and Electronics Engineering faculty, Ph.D. scholars, and students.

Dr. Mrudula S. Korde introduced the guest, and Dr. Rajesh S.

Pande, VC, RBU felicitated him. Prof. Zissis spoke on Smart Lighting for Sustainable and Affordable Urban Development. Topics included solid-state lighting, standardization, energy efficiency, and health impacts. He stressed the importance of smart, eco-friendly lighting systems in modern cities. An engaging Q&A session followed with active faculty and scholar involvement. Dr. Rohini S. Ochawar closed the event with a warm vote of thanks.



Dr. Zissis Felicitation by Dr. Rajesh S. Pande, VC, RBU, Nagpur

### Conferences/STTP/ FDP / MDP / Workshop / Seminar etc Attended by Faculty

1. Nishant M. Borkar successfully participated in the Faculty Development Program (FDP) on “Research Advances in Design and Implementation of Antennas for Next-Gen Technologies (RADIAN T - 2025)” organized by the Department of Electronics and Communication Engineering, SR University, held from 21st to 25th April 2025.
2. Nishant M. Borkar attended a National Level Seminar on “Modern Methods for Component Measurements using Vector Network Analyzers for 6G Test”, organized by the IEEE MTT/AP-S Student Branch Chapter, IISc Bangalore, held online on 17th April 2025.
3. Nishant M. Borkar attended a National Level Seminar on “Memory Interfaces: Past, Present and Future”, organized by the E&ICT Academy, NIT Warangal, conducted online from 15th to 24th April 2025.
4. Prof. Nitin Chakole successfully participated in the GIAN Program titled “Silicon Integrated Photonics Circuits for Quantum Computing and Secure Communications”, organized by Visvesvaraya National Institute of Technology (VNIT), Nagpur, held at the National level from 7th to 11th April 2025 at VNIT Nagpur.
5. Prof. Nitin Chakole successfully completed a National Level Faculty Development Program (FDP) on “AI and IoT for Advanced Biomedical Signal Processing: Challenges, Solutions and Future Prospects”, organized by the E&ICT Academy, NIT Warangal, conducted online from 15th to 24th April 2025.

## Faculty Highlights

### Faculty Invited for - Keynote Speeches/ Guest lecturers/ STTP/ FDP/Others

Dr. S. B. Pokle reviewed articles for International Journal “Automatika: Journal for Control, Measurement, Electronics, Computing and Communications” and “AEUE- International Journal of Electronics and Communication”, Both indexed in SCI.

Sir also invited for BoS meeting in department of ETC, Sipna College of Engineering and Technology, Amravati, on 19-06-2025.

## Student Achievements

### Awards in Competitions or Conferences

A team of Mr. Shantanu Sarode, Sneha Mummaneni, Kaivalya Pardeshi (Team Leader), Vedant Dehankar and Akansha Warkad of ECE department, RBU, Nagpur, made it to the Top 15 winners across India out of 4500+ teams in the College Youth Ideathon 2025 organized by IIT Delhi, with their startup idea EquiLearn – an affordable skill-building platform with smart certification and QR-based tracking.

They received a ₹20,000 cash prize at the Grand Finale held on 6th April 2025 at IIT Delhi, after progressing through multiple screening rounds including Top 1000 idea shortlisting, Top 100 pitch video selection, and the final jury presentation.



Students from the 4th semester of Ramdeobaba College of Engineering and Management (RCOEM), Nagpur, received a cash prize of ₹20,000 in the College Youth Ideathon (2025) organized by IIT Delhi.

Students of Second Year Ramdeobaba University Team **Encoder (Nikhil Mehtapsingh Damahe, Mushrat khan, Rameshwari Radke)** grabbed 1st position (Winner) won 10,000 Rs. Cash Prize for “Flight Insurance dApp” in the event Hack on a National level Technical Symposium organized by Government College of Engineering Nagpur held on 20-22 Feb, 2025. It’s an 8-hour hackathon organized by the GDG team of Government College of Engineering, Nagpur! Amidst tough competition They emerged victorious a national level Technical Symposium organized by Government College of Engineering Nagpur.

**Introduction of Project: “Flight Insurance dApp”** it is a decentralized, smart contract-

powered insurance solution for travelers, key Features are Buy Insurance – Travelers can purchase coverage for 0.01 ETH (for the time being) by specifying their flight number and departure time. Automated Payouts – If a flight is delayed, the insured user automatically receives 0.02 ETH—no middlemen required (a work in progress). Smart Contracts – Ensuring tamper-proof, secure, and low-cost transactions. Web3 Integration – MetaMask-powered, seamless user experience. Security Features are it Prevents duplicate purchases Verifies claim eligibility automatically Emits transaction logs for full transparency. Their commitment to excellence and relentless effort were way to success and a proud moment for all of us.

Students of First Year Ramdeobaba University grabbed 1st position in the Group Dance Category in Laasya- National

Intercollegiate-Dance Competition organized by Sadabai Raisoni Womens College, Nagpur held on 7th Feb 2025.



Students of First Year of Ramdeobaba University received 1st position.

Students of Ramdeobaba University (RBU), Nagpur Ansh Shahu and team “Jaggu Dominators” grabbed 2nd position of offline round of the AI Hackathon organized by the Visvesvaraya National Institute of Technology (VNIT), Nagpur.

#### Internships or placements secured

In 2024-25 session 99 students Placed in campus placement drive out of 137, highest package offered was 12 LPA. Full Semester Industry Internship count in 8th semester was 52)

#### Notable student projects or start-ups

RGSTC - MSME Internship 2024-25 secured by Final year Electronics and Communication students Internship project titled “Voice Controlled Movement of Electric Wheelchair for Differently Abled Needy System” for Saksham Artificial Limb Center by Altior Health Care Pvt. Ltd. Nagpur was developed by Mr.Sanchit Vinay Tondre and Mr. Shivam Kanhaiyalal Pawar, Mentored by Prof. Vipul S. Lande under RGSTC-MSME Internship scheme 2024-25, Government of Maharashtra. The project was funded with Rs. 2,95,000/- for a duration of 6 months and completed in May 2025.



Nikhil Mehtapsingh Damahe, Mushrat khan, Rameshwari Radke received 1st position and won 10,000 Rs. Cash Prize

Students of Second Year Ramdeobaba University Nakul Mundhada, Nirzara Tijare, Sadichchha Nikhare, Tisha Parmar and Udit Tinwar grabbed 1st position and won 5000 Rs. Cash Prize in the event Hackathon Avishkar 3.0, for Smart city an Inter-Collegiate event organized

by Cummins College of Engineering for Women, Nagpur held on 21-22 Feb, 2025.

About the project: They solved real life problems to make public transport efficient and sustainable. Problem solution was based on QR + Tracker system which will show the accurate result all over in the city areas.



Students of Second Year Ramdeobaba University received 1st position and won 5000 Rs. Cash Prize in the event Hackathon Avishkar 3.0.



Mr.Sanchit Vinay Tondre and Mentor Prof. Vipul S. Lande with project

## National & International Collaborations & MoUs

### New industry or academic partnerships

A Memorandum of Understanding (MoU) was signed between Ramdeobaba University, Nagpur and the Maharashtra Remote Sensing Application Centre (MRSAC), VNIT Campus, Nagpur on 26th April 2025 for the mutual benefit of students and staff of both institutions. Dr. R.S. Ochawar, Associate Professor, Electronics and Communication Engg. Dept. and Mr. Sanjay

Balamwar, Scientist, MRSAC were the coordinators for MoU.

### International collaborations or exchange

Ms. Aditi Godbole, a third-year ECE student, successfully completed the Transdisciplinary Immersion Programme at Hiroshima University, Japan from January 30 to February 10, 2025. She is benefitted under the MoU between RCOEM/RBU Nagpur and Hiroshima University as part of the credit transfer scheme.



Participating students interacting with school students

Participating students were Akul Kute, Ashutosh Keshpage, Arpita Singh, Aryan Kothari, Rishabh

Raj, Samiksha Deshmukh, and Riya Thakur, guided by Prof. Puja S. Agrawal.



The Participating students interacting with school students

During the project, the students developed a chatbot to help children practice language through repetition. In addition to their voluntary work, they also enhanced their own learning by gaining exposure to AI and 3D printing.



The students developed a chatbot



Jeevodaya Special School, Sadar, Nagpur

This initiative not only benefitted the children at Jeevodaya Special School but also enriched the students with valuable experience

in teamwork, empathy, and the application of technology for social good.

## Alumni Achievements

Ms. Siddhi Dubey Student of Ramdeobaba College of Engineering and Management (RCOEM), Nagpur has become the Second helicopter pilot of the Indian Navy recently. Sub Lt. Siddhi was awarded her wings on 9th June at INS Rajali, she is the second woman helicopter pilot in the Indian Navy. She got her wings

after completing 22 weeks of rigorous training at Indian Naval air squadron 561 along with 17 others officers.

Siddhi Dubey underwent intensive flying and ground training, honing skills crucial for front line Naval operations. Her perseverance was rewarded with the ceremonial "Golden Wings" and it also considered being a symbol of operational readiness and the Navy's trust.



Sub Lt. Siddhi Dubey received Golden wings by Vice Admiral Rajesh Pendharkar during passing out parade.

## Alumni Contributions to The University

### Participation in advisory boards or committees

- 1) The syllabus framing of DevOps as an open elective by Mr. Shubham Deshpande (Technical

Team Lead – SOC, Irdeto) and Mr. Akshit Gupta (DevOps Engineer, Irdeto), bringing real-world industry insights and practical applications.

## Community & Social Impact

### Field Project

A group of seven students from the Department of Electronics and Communication Engineering, RBU, Nagpur, successfully completed a community project at Jeevodaya Special School, Sadar, Nagpur, from 24th January to 31st March 2025.

As part of the Co-curricular Activities/Community/Field Project initiative under NEP Scheme, the students visited the school once a week and actively engaged with children with special needs through classroom assistance, interactive activities, and creative sessions.

## School of Engineering Sciences

### Department of Mechanical Engineering

#### Departmental Highlights

##### Research & Publications

###### Publications in High-Impact Journals: Authors, Paper Title, Published in Journal

1. **Dr. G R Nikhade** Published a research paper titled “*Design and Development of Cam-Operated in-Pipe Robot (CIPR)*” in *Scientia Iranica* (International Journal of Science and Technology) - SCI indexed Journal.
2. **Dr. S. R. Kulkarni** Published a research paper titled “*Implementation of Track and Trace Systems at Pharmaceuticals Industry Ltd.*” in *Journal of Information Systems Engineering and Management*.
3. **Dr. Mangesh Joshi** published a research paper titled “*Prioritization of Barriers to Digitization for Circular Systems using Analytical Hierarchy Process*” in *International Journal of Information Technology and Computer Science* –a Scopus indexed journal, June 2025. DOI: <https://doi.org/10.5815/ijitcs.2025.03.05>
4. **Dr. Mangesh Joshi** published a research paper titled “*Solar Site Selection: A Novel Normalized Expert Strictness for Tailored Evaluation in Decision-Making (NESTED)*

*Approach*” in *Journal of Scientific & Industrial Research (JSIR)* – an SCIE indexed journal, May 2025. DOI: <https://doi.org/10.56042/jsir.v84i5.11859>

5. **Dr. Mangesh Joshi** published a research paper titled “*Strategic Risk Management in Software Projects: ISM-MICMAC Framework*” in *Journal of Scientific & Industrial Research (JSIR)* – an SCIE indexed journal, April 2025. DOI: <https://doi.org/10.56042/jsir.v84i04.11321>

6. **Dr. Yogesh Joshi** published a research paper titled “*Experimental Investigation of Wetting Characteristics of AL-SN Alloy*” in *Surface Review Letter*, World Scientific Publisher – an SCIE indexed journal, May 2025. <https://doi.org/10.1142/S0218625X2550163X>

7. **Dr. Yogesh Joshi** published a research paper titled “*Feasibility of nanofluids in refrigeration systems: A comprehensive review*” in *International Journal of Modern Physics B*, World Scientific Publisher – an SCIE indexed journal, June 2025. <https://doi.org/10.1142/S0217979225300075>

##### Patent / Prototype / Startup News

1. **Dr. Yogesh Joshi, Dr. Arun Kose, Dr. Vandita Thantharate** received design patent granted on 07th May 2025 titled as “*Solar Assisted Precision Valve for Irrigation Device*” (Application No. 446381-001)
2. **Dr. Yogesh Joshi, Dr. Dinesh Zanwar, Mr. Rahul Deshmukh** received design patent granted on 08th April 2025 titled as “*Design of Halbach Array Configuration for Improved Condenser Performance*” (Application No. 422826-001)
3. **Dr. Yogesh Joshi** received design patent granted on 01st May 2025 titled as “*Compound Parabolic Concentrator Solar Distiller System*” (Application No. 419615-001)
4. **Dr. Yogesh Joshi** received a design patent granted on 08th April 2025 titled as “*Two Axis Robotic Arm Solar Cleaner*” (Application No. 416045-001).
5. **Dr. Pranjali Deole**’s patent titled “*Coconut cracker Machine*” has been granted by the government of India. on 22/05/2025.

#### Departmental Activities

##### Conference, Events & Seminars Organized

1. **Dr. G. R. Nikhade** Organised a Technical presentation on Artificial Intelligence (AI) and Robotics in association with JCI Nagpur Royal, an integral part of JCI India on 29th April 2025
2. **Dr. S. R. Kulkarni**, Chairman of the Indian Institution of Industrial Engineering (IIIE) Nagpur Chapter, organised a

knowledge session on “Industry 4.0 - Relevance and Way Forward for Industries and Institutions in Central India” by Mr. Nitin Lonkar, Managing Partner M/S Duralloy India, Butibori, Nagpur at IEI Nagpur on 5th April 2025 in association with Institution of Engineers (India) Nagpur Local Centre.

##### Workshops, Seminars, Guest Lectures

1. **Dr. Pranjali Deole** participated in 5 Days Online International Workshop on 3D Printing & Additive Insights organized by the

Department of Mechanical Engineering, National from 26th May 2025 to 2nd June 2025. Institute of Technology Mizoram, India.

##### Conferences/ STTP / FDP / MDP / Workshop / Seminar etc Attended or Organized by Faculty

1. **Dr. S. R. Kulkarni** successfully completed the NPTEL Course of 8 weeks on “*Emotional Intelligence*” (Jan - March 2025)
2. **Dr. Yogesh G. Joshi** successfully completed the NPTEL Course of 8 weeks on “*Mechatronics*” (Jan - March 2025)
3. **Dr. Yogesh G. Joshi**, Presented paper on “*Parametric Optimization and Transient Analysis of a Disc Brake Using L9 Taguchi Design with Different Brake Materials*” for consideration at the 4th International Conference on Materials Science & Engineering (ICMSE-2025) at NIT Jalandhar.

#### Faculty Highlights

##### Faculty Invited for - Keynote Speeches / Guest Lectures / STTP / FDP / Others

1. Dr. S. R. Kulkarni was invited as an Expert (honourable VC’s Nominee) on the Selection Committee for

selection for the post of Training & Placement Officer by RTM Nagpur University on 11th April 2025.





## Department of Civil Engineering

### Departmental Highlights

### Research & Publications

- **Dr. Tripti Gupta**, published a paper titled “*Prediction of ANN, MLR, and NLR Models for Compressive Strength Performance in Fly Ash-Based Self Compacting Concrete*” in the *Asian Journal of Civil Engineering*, June 2025.
- **Tejaswi Patode and Prashant Hiwase** presented a paper titled “*Finite Element Analysis of Composite Slab with Profiled Steel Deck and Compaction with Conventional Slab*” at the conference on Sustainable Civil Infrastructures - Innovations in Technologies: Pioneering Sustainable Infrastructure for a Resilient Future on 29th April 2025.
- **Prashant D. Hiwase**, published a paper titled “*Judd Ofelt Analysis and*
- **Nikhil Agrawal**, along with **Sarmad Rashid, Manpreet Singh, Anshuman Srivastav, and Rajendra Khapre**, published a paper titled “*Marble Dust as a Sustainable Cementitious Material: Investigating the Synergistic Effects of Curing Conditions*” in the *European Journal of Environmental and Civil Engineering* in April 2025.
- **Hariom Khungar**, along with Nilesh Parmar and Kondraivendhan B, published a paper titled “*Experimental and Analytical Investigation of Metakaolin and Quarry Dust in Concrete*” in the *Suranaree Journal of Science and Technology* in April 2025.

*Photoluminescence in  $Bi_2Al_4O_9:Sm^{3+}$  Phosphor for Optoelectronic Applications*” in the Canadian Metallurgical Quarterly (Taylor & Francis) on 25th June 2025.

and Sustainable Energy Solutions (IC-NGI-GSS-2027) held at KDK College of Engineering, Nagpur, on 9th and 10th May 2025.

4. **Mrs. Varsha Harne and Anurag Sharma** presented a paper titled “*Comparative Study on Seismic Behavior of RC Shear Walls with Varying Opening Configurations*” at the Two-Days International Conference on Next-Generation Infrastructure: Green Technologies, Smart Cities, and Sustainable Energy Solutions (IC-NGI-GSS-2027) held at KDK College of Engineering, Nagpur, on 9th and 10th May 2025.

7. **Unnati Chaurasia and Dr. Sharda Siddh** presented a paper titled “*Advances in Concrete-Filled Steel Tubes (CFST) Columns – A Review on Recent Research*” at the Two-Days International Conference on Next-Generation Infrastructure: Green Technologies, Smart Cities, and Sustainable Energy Solutions (IC-NGI-GSS-2025) held at KDK College of Engineering, Nagpur, on 9th and 10th May 2025.

5. **Khungar Hariom and Pandharikar Nikunj Sanjay** presented a paper titled “*Influence of Macro Micro Polypropylene Fibres on Compressive Strength of Concrete*” at the Two-Days International Conference on Next-Generation Infrastructure: Green Technologies, Smart Cities, and Sustainable Energy Solutions (IC-NGI-GSS-2025) held at KDK College of Engineering, Nagpur, on 9th and 10th May 2025.

6. **Khungar Hariom and Hitesh Chavan** presented a paper titled “*Advancement in Precast Concrete Structures with Three Radii Arch Culvert: A Sustainable*

8. **Ritu Chauhan and Dr. Sharda Siddh** presented a paper titled “*A Simulation Study of Composite Steel Deck Slabs with Fibrous Concrete*” at the Two-Days International Conference on Next-Generation Infrastructure: Green Technologies, Smart Cities, and Sustainable Energy Solutions (IC-NGI-GSS-2026) held at KDK College of Engineering, Nagpur, on 9th and 10th May 2025.

### Conference, Events & Seminars Organized

- Organized “2 Days Hands on Training on Analysis and Design of Prestressed Concrete Bridges using

MIDAS Civil) for PG Structural and Construction Management Students on 9th-10th June 2025.

### Conferences/ STTP/ FDP/MDP/Workshop/ Seminar etc. Attended or Organized by Faculty

1. **Dr. Vaishali Rajurkar**, along with Ms. Angai Rajurkar and Dr. Nina Dhamge, presented a paper titled “*Assessing Energy Efficiency in Building Cooling: A Comparative Study of Materials and Techniques*” at the Two-Days International Conference on Next-Generation Infrastructure: Green Technologies, Smart Cities, and Sustainable Energy Solutions (IC-NGI-GSS-2025) held at KDK College of Engineering, Nagpur, on 9th and 10th May 2025.

*Destructive Testing Methods for Compressive, Flexural, and Tensile Strength Recovery*” at the Two-Days International Conference on Next-Generation Infrastructure: Green Technologies, Smart Cities, and Sustainable Energy Solutions (IC-NGI-GSS-2026) held at KDK College of Engineering, Nagpur, on 9th and 10th May 2025.

2. **Dr. P. D. Hiwase and Kaustubh Manmohan Bhoyar** presented a paper titled “*Evaluation of Self-Healing Efficiency in Modified Concrete Using*

*Behavioral Study of Steel Composite Structures with and without Bracing*” at the Two-Days International Conference on Next-Generation Infrastructure: Green Technologies, Smart Cities,

*Substitute to Conventional Culvert in Cross Drainage Works*” at the Two-Days International Conference on Next-Generation Infrastructure: Green Technologies, Smart Cities, and Sustainable Energy Solutions (IC-NGI-GSS-2027) held at KDK College of Engineering, Nagpur, on 9th and 10th May 2025.

7. **Unnati Chaurasia and Dr. Sharda Siddh** presented a paper titled “*Advances in Concrete-Filled Steel Tubes (CFST) Columns – A Review on Recent Research*” at the Two-Days International Conference on Next-Generation Infrastructure: Green Technologies, Smart Cities, and Sustainable Energy Solutions (IC-NGI-GSS-2025) held at KDK College of Engineering, Nagpur, on 9th and 10th May 2025.

8. **Ritu Chauhan and Dr. Sharda Siddh** presented a paper titled “*A Simulation Study of Composite Steel Deck Slabs with Fibrous Concrete*” at the Two-Days International Conference on Next-Generation Infrastructure: Green Technologies, Smart Cities, and Sustainable Energy Solutions (IC-NGI-GSS-2026) held at KDK College of Engineering, Nagpur, on 9th and 10th May 2025.

### Faculty Highlights

#### Faculty Invited for – Keynote Speeches / Guest Lecture / STTP / FDP / Others

1. **Dr. Vaishali Rajurkar** was a Speaker in the Faculty Development Program on “*Circular Economy in Construction Waste Management for Sustainable Development*” held on 12th June 2025 at JD College of Engineering and Management, Nagpur.

Accredited) of TGPCET, held on 12th April 2025 (Saturday) at 11.00 am at Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur.

3. **Hariom Khungar** was a Speaker in a one-day workshop on “*Non-Destructive Inspection Technologies for Repair Assessment in Materials and Structures*” conducted on 24th April 2025 at Government Polytechnic, Nagpur.

2. **Dr. Prashant D. Hiwase** served as a BOS Committee Member in the 9th Board of Studies (BoS) meeting of the Civil Engineering Department (NBA

4. **Sumit Geete** was a Speaker in a one-day workshop on "Non-Destructive Inspection Technologies for Repair Assessment in Materials and Structures" conducted on 24th April 2025 at Government Polytechnic, Nagpur.

5. **Sumit Geete** has been appointed as the Technical Consultant for the construction of the Nandlal Nuwal - Indology Centre at Bharatiya Vidya Bhavan, Delhi Kendra. The project has an estimated cost of ₹60 Crores.

## Alumni Contribution to the University

### Participation in Advisory Boards or Committees

- **Dr. Rahul Ralegaonkar**, Member of Board of Studies, Civil Engineering, RBU, Nagpur

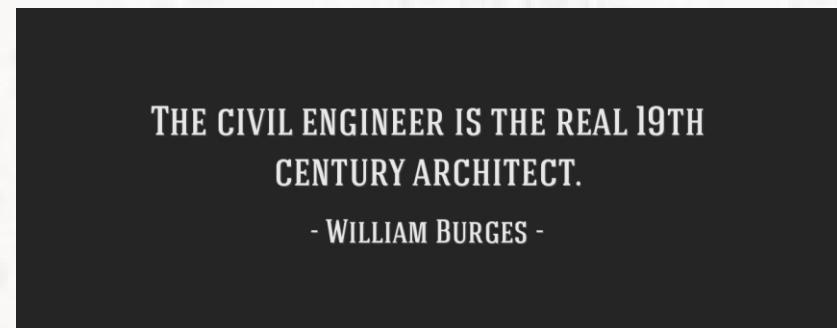
- **Mr. Sagar Balani**, Member of Board of Studies, Civil Engineering, RBU, Nagpur



## Departmental Activities

Details of Consultancy projects undertaken are as below:

Sr. No.	Project Title	Funding Agency	Name of Faculty Member(s)	Amount	Date/ Duration
1.	In-situ and laboratory testing at Panjri-Lodhi, Wardha Road, Nagpur	Renaissance Enterprises Pvt. Ltd., Nagpur	Dr. P. P. Dahale	1,29,210/-	45 Days (On-going)
2.	Geotechnical Material Testing	Master Geotech Services Pvt. Ltd., Nagpur	Dr. P. P. Dahale	16,992/-	7 Days
3.	ERT Testing	DCS Limited	Dr. P. P. Dahale	17,700/-	7 Days





## School of Humanities and Sciences

### Department of Humanities

#### Departmental Highlights:

#### Academic Achievements

Department of Humanities added another course to its Liberal Arts basket. The new course called “Introduction to German Language and Culture”

#### Research & Publications

#### Publications in High-Impact Journals: Authors, Paper Title, Published in Journal

1. **Dr. Vinod Asudani** “Poetry: Traditions and Trends in Indian Literature” by Central Sahitya Academy, No. 347, May- June 2025, Vol. LXIX No. 3, New Delhi, ISSN 0019580-4,
2. **Dr. Deepti Jain Thakre** “Love, Rivalry, and Betrayal: Sibling Dynamics in Anita Desai's Voices in the City and Clear Light of Day” Journal of Neonatal Surgery (multidisciplinary journal) ISSN (Online): 2226-0439

Volume 14, Issue 30s (2025) <https://www.jneonatalsurg.com>

3. **Ms. Pratishruti Singh Agarwal** “Applying Alfred Korzybski's General Semantics to Language Teaching: Bridging Theory and Practice in Modern Classrooms” 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

1. **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

1. 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 Kandi Mahavidyalaya, Nagpur, Seth

Kesarimal Porwal College of Arts, Science & Commerce, Kamptee, Dr. S.C. Gulhane Prerna College of Commerce, Science and Arts, Nagpur, and Mahatma Gandhi College, Parseoni.

### Department of Physics

#### Departmental Highlights:

#### Research & Publications

Notable research projects - Project Title:

Seed Money granted for the project Entitled “Development of LED lamps using lanthanide free phosphors”

Principal Investigator : **Doctor Renuka Nafdey**

Funding Agency: **RBU-SMRFS**  
Grant-in aid Sanctioned Rs. 200000/-  
Ref. No. 2024-25 / R & D / SMRFS/03

#### Summary

*In India LEDs are produced using yellow emitting YAG:Ce phosphor which is imported from China. For better CRI the red phosphor CaAlSiN3:Eu2+ has to be used. It costs Rs.3,60,000/Kg. To get rid of this dependence on China, it is proposed to develop lanthanide free phosphors for Solid state lighting. We have identified several lanthanide free*

*phosphors which can be used for solid state lighting. It is proposed to synthesize these phosphors and luminescence characterization at RBU with the existing facilities. LED fabrication and testing will be done in collaboration with Quality photonics, Hyderabad. We have already received collaboration from them in the past.*

#### Publications in High-Impact Journals:

#### Authors, Paper Title, Published in Journal

- 1) **Neelam Hooda, Reena Sharma, Amit Hooda, Ashima Hooda, Satish Khasa**, Structural, optical and electrical conductivity analysis of iron supplanted LaPrCoMnO<sub>6</sub> system for electrochemical applications, *Applied Physics A*, 10.1007/s00339-025-08521-y, Volume 131, article number 385, (2025).
- 2) **Neelam Hooda, Reena Sharma, Amit Hooda, Ashima Hooda, Satish Khasa**, Dielectric tunability and optical behavior of B-site Cr-substituted La<sub>2</sub>Ni<sub>1-x</sub>Cr<sub>x</sub>MnO<sub>6</sub> double perovskites for solar cell applications, *Ceramics International*, 10.1016/j.ceramint.2025.04.141.
- 3) **Shilpa Kulkarni, Akshay Pimpalkar, Amol Kumar N. Jadhav, Ashok Mistry, Shruti Dhale, Prachita A. Patil, Anil Muke, Rujuta Barve Joshi, Nilesh Ugemuge**, Structural and spectroscopic properties of Ca<sub>2</sub>La<sub>3</sub>(SiO<sub>4</sub>)<sub>3</sub>F:Dy<sup>3+</sup>phosphor, *Applied Physics A*, 10.1007/s42247-025-01136-2.
- 4) **Renuka Nafdey, Pritee Tawalare, Nilesh Ugemuge, S.V. Moharil**, Host sensitized near infrared luminescence in Li<sub>2</sub>CeO<sub>3</sub>:Er<sup>3+</sup> for solar spectrum modifications and NIR LED, *Journal of Electronic Materials*, ,(2025) 54:5770–5777 Accepted on 25th April 2025 <https://doi.org/10.1007/s11664-025-12032-0>.
- 5) **Renuka Nafdey, Ashwini Pusdekar, Nilesh Ugemuge, Sanjiv Moharil**, Effect of A<sub>1</sub>3+ ion on Photoluminescence of Y<sub>2</sub>W<sub>6</sub>:Nd<sup>3+</sup> Phosphor for near Infra-Red Applications, *Emergent Materials*, 2025:23 (2025) Accepted on 27th May 2025 <https://doi.org/10.1007/s42247-025-01136-2>.
- 6) **Renuka Nafdey, Supriya Kshetrapal, Ashwini Pusdekar, Nilesh Ugemuge, Sanjiv Moharil**, Structural and NIR spectroscopic characterization of Na<sub>5</sub>Bi(WO<sub>4</sub>)<sub>4</sub> phosphors

activated with lanthanides, *Journal of Molecular Structure*, 1344 (2025) 142916 , Accepted 5 June 2025 <https://doi.org/10.1016/j.molstruc.2025.142916>.

7) **Renuka Nafdey, Ashvini Pusdekar, Nilesh Ugemuge, Pritee Tawalare, Rajesh Burde, Sanjiv Moharil**, *Materials Research Bulletin*, 192 (2025) 113622, accepted 14 June 2025 <https://doi.org/10.1016/j.materresbull.2025.113622>.

8) **Renuka Nafdey, Supriya Kshetrapal, Nilesh Ugemuge, P.K.Tawalre, S.V. Moharil**, *spectroscopic analysis of NIR emitting LiBi (MoO<sub>4</sub>)<sub>2</sub>:Ln<sup>3+</sup>(Ln= Nd, Yb and Er) phosphors for optical applications*, *Journal of Molecular Structure*, 1344 (2025) 142965, <https://doi.org/10.1016/j.molstruc.2025.142965>.

025.142965, accepted 9 june 2025

9) **Renuka Nafdey, Arpita Vyas, S.V.Moharil**, *Tunable NIR Emission via Nd<sup>3+</sup> to Yb<sup>3+</sup> Energy Transfer in different phases of Y<sub>6</sub>MoO<sub>12</sub>, Spectroscopy letters*, accepted on 12th June 2025 <https://doi.org/10.1080/00387010.2025.2523997>.

10) **Pankaj Belsare, P. K. Tawalare, Shruti P. Dhale, Supriya M. Kshetrapal, Nilesh S. Ugemuge, R. J. Krupadam and S. V. Moharil**, *Synthesis and Spectroscopic Analysis of NIR Emitting BiYMoO<sub>6</sub>: Ln<sup>3+</sup>(Ln=Nd, Yb) Phosphor for Optoelectronics Applications*, *ECS Journal of Solid State Science and Technology*, *ECS Journal of Solid State Science and Technology*, DOI 10.1149/2162-8777/ade186.

## Conferences / STTP / FDP / MDP / Workshop / Seminar etc. Attended or Organized by Faculty

1) **Dr. Neelam Devi**, have attended a Conference from April 21 to 23-2025, organized by University, Tirupati & Department of Biotechnology, Sri Padmavati Mahila Visvavidyalayam, Tirupati, On the topic International Conference on Science, Technology and Application of Rare Earths.

2) **Dr. Yatish Parauha**, have attended a Conference from April 21 to 23-2025, organized by University, Tirupati & Department of Biotechnology, Sri Padmavati Mahila Visvavidyalayam, Tirupati, On the topic International Conference on Science, Technology and Application of Rare Earths.

## Department of Chemistry

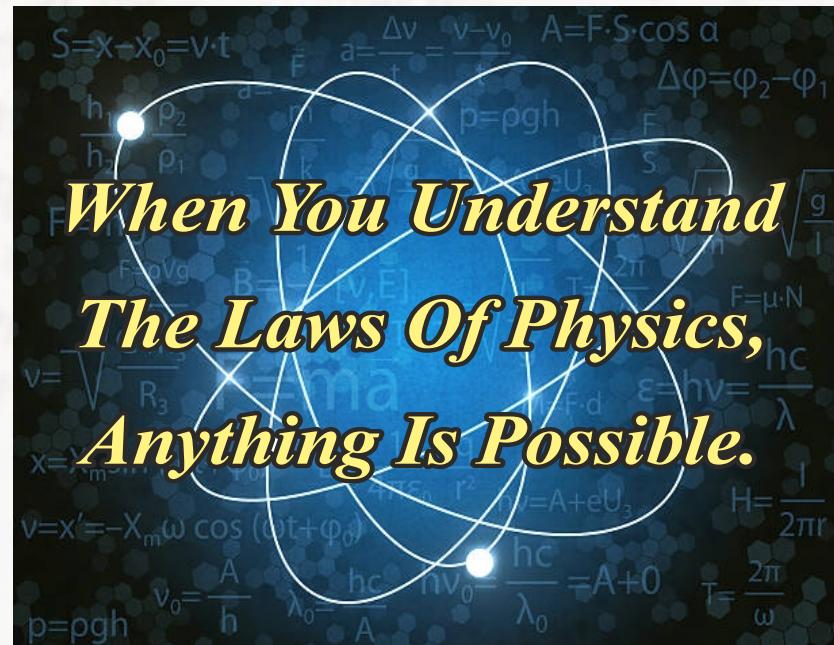
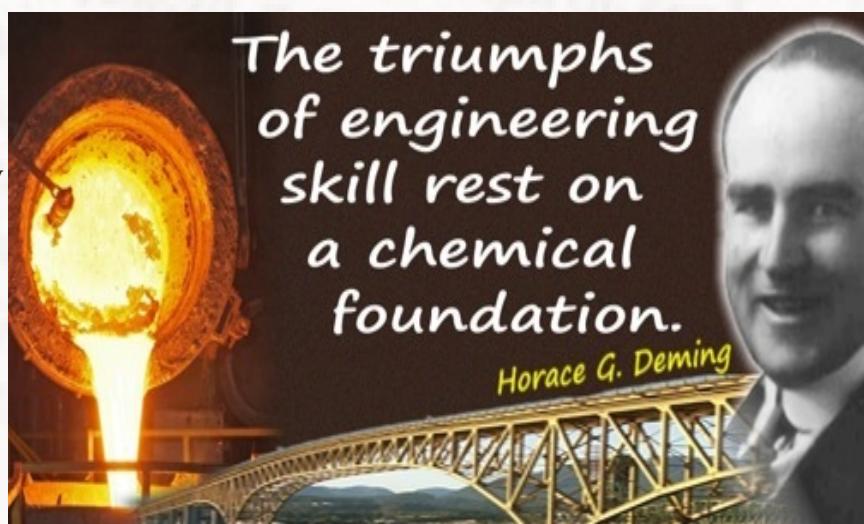
### Departmental Highlights:

#### Conferences / STTP / FDP / MDP / Workshop / Seminar etc. Attended or Organized by Faculty

1. **Dr. Sanjogta Meshram** successfully completed six days International Faculty Development Programme on “*Emerging Materials for Sustainable Development*” organized by Division of Chemistry, School of Sciences, SRM Institute of Science and Technology, Tiruchirappalli, Tamil Nadu, India on 21st – 26th April 2025.

2. **Dr. Sanjogta Meshram** successfully completed five days online Faculty Development Programme on,

“*Multidisciplinary innovation in Advanced Sustainable Materials and Technologies*” conducted during 24th to 28th of June 2025 organized by the Physics Department(sponsored by DST-FIST and DST-PURSE) Koneru Lakshmaiah Education Foundation (KLEF) in association with KL Academic Staff college and Material Research Society of India (MRSI), Green Fields, Vaddeshwaram, Guntur Andrapradesh, India.



“

Chemistry is the study of the composition of substances and the changes they undergo.

JOHN DALTON

## Department of Physical Education

### Departmental Highlights:

### Faculty Highlights

#### 1. Dr. Amrita Pande, Assistant Professor

**Dr. Amrita Pande** was invited as a guest speaker at the Two-Day National Conference on Interdisciplinary Approaches in Education, Physical Education, Sports, and Yoga under NEP, held on March 28-29, 2025, and organized by Jalna Education Society's R.G. Bagadiya Arts, S.B. Lakhotia Commerce, and R. Bezonji Science College, Jalna. Her session on "Workplace Yoga" was presented virtually on March 29, during the hybrid-mode seminar.

She also had the honor of representing INDIA as a technical official at the Sepak takraw World Cup 2025 held from March 20-25 at the patli putra sports complex, in Patna, Bihar. This inaugural event in Bihar saw participation from 20 countries, showcasing the global appeal of the ultimate kick game – Sepak Takraw.

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Dr. Amrita Pande was invited as a resource person at the National Seminar on "Physical Activity, Recreation, and Yoga: A Holistic Approach to Healthy Aging" organized by Netaji Subhash Mahavidyalaya, Belbata - Raipur. She had the privilege of delivering a session on "Psychological Issues in Elderly" on 9th February 2025, discussing key mental health challenges faced by older adults and their importance in the context of healthy aging. The hybrid event provided a platform for diverse participation from faculty members, researchers, and academic professionals.

#### 3. Ms. Kanchan Yadav, Assistant Professor

In a powerful testament to courage, commitment, and the spirit of adventure, Assistant Professor Kanchan Yadav, completed a gruelling 20-day motorcycle journey from 17th June to 6th July, 2025, covering 5,800+ km through some of the world's toughest and highest terrains. Riding alongside a fellow woman biker, she crossed extreme

high-altitude passes like Baralacha La, Lachung La, Nakeela, Chang La, and reached the awe-inspiring Umling La—at 19,300 feet, the highest motorable pass on Earth. Her journey spanned iconic places such as Leh, Sarchu, Nubra Valley, pangong lake, Hanle, Srinagar, Jammu and emotionally powerful sites like the Siachen Base Camp, Renzing La War Memorial, and the Kargil War Memorial.



#### 4. Mr. Shubham Itankar, Assistant Professor

**Prof. Shubham Itankar** completed the SWAYAM NPTEL online certification course in Exercise and Sports Biomechanics conducted by IIT Madras in April 2025.



## Student Achievements

### SPORTS

Ms. Sanika Kawde, a student of I Year (BIO) of RBU, has achieved a remarkable feat by securing first place in a 2 km sea swimming event in Age group 17-40 yrs held at Caranzalem Beach in Goa on 19 April 2025. It was national level sea swimming event that was organized by OWSA in association with SFI and IITM.



#### 2. Ms. Vinisha Nitnaware, Assistant Professor

Prof. Vinisha Nitnaware was honoured as a guest speaker at a workshop organized by the District Sports Office, held on 21st May 2025 at Jilha Niyojan Bhavan, Nagpur. She conducted an insightful session on Sports Psychology,

focusing on the mental well-being and performance enhancement of athletes. The session was well-received by students, parents, and coaches, who gained valuable strategies for managing pressure, building resilience, and fostering a positive sporting mindset.

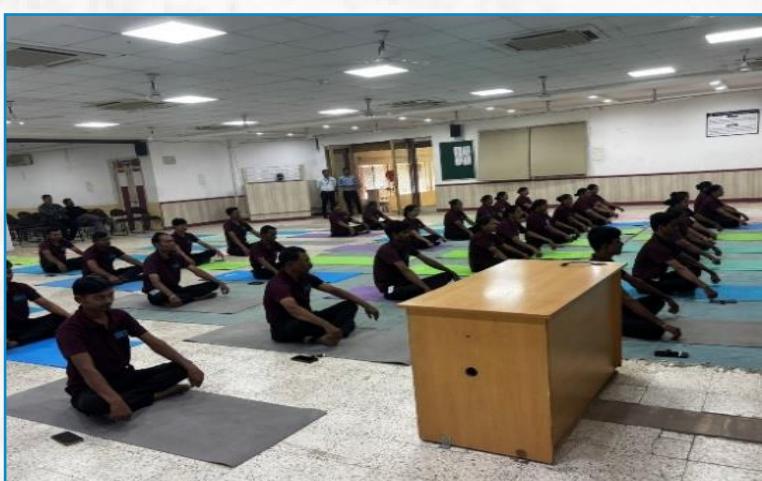


## Departmental Activities

### International Day of Yoga

The event brought together students, faculty and staff to practice yoga, highlighting its role in promoting holistic health, environmental consciousness,

and global unity. Aimed to deepen understanding of yoga's benefits, foster sustainable living, and encourage daily practice for enhanced well-being. Overall 55 students, faculty and staff participated in the event.



### Community & Social Impact

#### NSS

On April 12, 2025, the NSS Unit of RBU organized a heartfelt event to commemorate Dr. B. R. Ambedkar's birth anniversary and mark the conclusion of the SAHYOG Programme for the academic year 2024–25. This 10-week initiative aimed to impart basic computer literacy to underprivileged students, successfully bridging the digital divide. Around 50 NSS volunteers took part. A floral tribute was paid to Dr. Ambedkar, honouring his legacy of social justice and education. Esteemed Guest—Shri Nandkishore Chaudhary, Dr. Deepshika Mehra (HOD-

Humanities Dept), and Dr. Amit Anurag (NSS Program Officer & HOD, Phy. Edu.)—delivered inspiring speeches, applauding the NSS Unit's impact and encouraging continued service and learning. Winners of Prema 17.0 were felicitated for their performances in events like Nyaya Summit, Prayas, and Anukriti. SAHYOG students expressed heartfelt thanks, highlighting their growth in confidence and digital skills. The event concluded with a vote of thanks by NSS Secretary Yash Ghoderao and the National Anthem, leaving behind a strong sense of unity and purpose.



Exercise is the key not only to physical health but to peace of mind.

— Nelson Mandela —

AZ QUOTES



## Temple Events

Date	Event	Activities
01/04/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
05/04/2025	Bhajan Sandhya	By Ramdeobaba Bhakt Kirtan Mandal
08/04/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
12/04/2025	Bhajan Sandhya	By Ramdeobaba Bhakt Kirtan Mandal
15/04/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
19/04/2025	Bhajan Sandhya	By Ramdeobaba Bhakt Kirtan Mandal
22/04/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
26/04/2025	Bhajan Sandhya	By Ramdeobaba Bhakt Kirtan Mandal Flower Decoration by Local Artist and Bhajan Sandhya by Ramdeobaba
28/04/2025	Duj	Bhakt Kirtan Mandal Flower Decoration by Local Artist and
30/04/2025	Ahshay Tritiya	Jamma By Ujjwal Khakoliya
06/05/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
10/05/2025	Bhajan Sandhya	By Ramdeobaba Bhakt Kirtan Mandal
13/05/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
17/05/2025	Bhajan Sandhya	By Ramdeobaba Bhakt Kirtan Mandal
20/05/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
24/05/2025	Bhajan Sandhya	By Ramdeobaba Bhakt Kirtan Mandal
27/05/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal Flower Decoration by Local Artist and Bhajan Sandhya by Ramdeobaba
28/05/2025	Duj	Bhakt Kirtan Mandal
03/06/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
07/06/2025	Bhajan Sandhya	By Ramdeobaba Bhakt Kirtan Mandal
10/06/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
17/06/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
24/06/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
26/06/2025	Duj	Aam Manorath, flower Decoration by Local Artist and Bhajan Sandhya By Ramdeobaba Bhakt Kirtan Mandal



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