



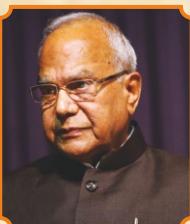
# RBU

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 Satyanarayani 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

### Balancing Books and Beyond:



Ramdeobaba University Hosts Spectacular Pratishruti-25 Cultural Fest Nagpur, Feb 28, 2025 - Ramdeobaba University, Nagpur, successfully concluded its flagship four-day cultural fest, Pratishruti-25, with a vibrant blend of tradition, talent, and celebration.

The event was inaugurated on February 25 by Mr. Brijesh Singh, ADGP, Maharashtra, with around 450 merit-based scholarships awarded to students for academic and cultural excellence.

**Day 1** featured Aarambh - Fete and a lively Cultural Night, drawing over 2,500 attendees.

**Day 2** included the Under 25 Summit, where young YouTube entrepreneurs inspired students, followed by an energetic Bhangra Night.

**Day 3** celebrated Traditional Day, with competitions and a captivating Musical Night by singer Akhil Sachdeva, attended by over 4,500 students.

**Day 4** concluded with a Valedictory Ceremony led by Mr. Swachhand Chavan (IRS), followed by a high-energy EDM Night featuring DJ Kashish Rathore, entertaining a crowd of 4,000.

**Pratishruti-25** showcased the university's cultural spirit, bringing students together for a memorable celebration of creativity and excellence.



**Shri Brijesh Singh, IPS, Additional Director General of Police addressing the gathering at Pratishruti 2025 Inauguration at RBU, Nagpur**



**Chief Guest, Mr. Swachhand Chavan (IRS, Customs, GST and Narcotics, Ministry of Home Affairs) addressing the audience at Pratishruti 25. He is also an alumnus of Electronics Engineering, Shri Ramdeobaba College of Engineering and Management (RCOEM).**

### Akhil Sachdeva Ignites the Stage at Pratishruti 25' with a Power-Packed Performance!



**Akhil Sachdeva**, is a sensational singer, composer, and lyricist best known for his soulful hits like "Tera Ban Jaunga" (Kabir Singh) and "Nasha." With his mesmerizing voice and high-energy performances, he continues to captivate music lovers across the country. He recently set the stage on fire at **Pratishruti 2025**, the annual cultural event of **Ramdeobaba University (RBU)**.

**RBU'S Transdisciplinary Immersion Programme in Hiroshima, Japan** - 21 students of Ramdeobaba University participated in Transdisciplinary Immersion Program, held from 30th January to 10th February 2025, at Hiroshima University, Japan, QS ranked, as part of a Memorandum of Understanding (MoU) between Ramdeobaba University (RBU), Nagpur and Hiroshima University along with two faculty members Dr. (Mrs.) Meghana A. Hasamnis, Dean, National and International Relations and Dr. (Mrs.) Mridula Korde, Associate Dean, National and International Relations.



**Inauguration of State-of-the-Art Sports Facilities at Ramdeobaba University** - Ramdeobaba University (RBU), in collaboration with the Ramdeobaba Alumni Connect Association (RACA), inaugurated its new state-of-the-art sports facilities on campus. Eminent alumnus Mr. Ashish Shrivastava (Founder/Director, Pinnacle Teleservices Pvt. Ltd.) graced the occasion as Chief Guest, along with distinguished guests Dr. P.T. Chande, Prof. Chakradhar Tripathi, Dr. S.P. Kane, and Dr. M.B. Chandak.

During the event, RACA handed over a sponsorship cheque of 25 lakhs to Honourable Chancellor Dr. S.S. Mantha, demonstrating the alumni's continued commitment to their alma mater.



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### Dear Readers,

It gives me great pleasure to present the first issue of REFLECTION for 2025, a vibrant chronicle of the diverse happenings at our university over the past quarter.

This edition captures the vibrant spirit of our university, where academic excellence, cultural richness, and community connection come together. From dynamic workshops and inspiring conferences to groundbreaking faculty publications, this quarter has been a true celebration of knowledge, growth, and shared purpose, bringing our vision and mission to life in meaningful ways.

Our student clubs continue to thrive with creative initiatives, while parent-teacher meetings (PTMs) have reinforced strong connections between faculty, students, and families. We also celebrate the success of our annual signature event, Pratishruti, a true showcase of talent, tradition, and innovation.

Adding to the global outlook of our university, the student exchange programs have offered our students invaluable cross-cultural learning experiences. We are proud to feature impactful alumni contributions, reflecting the continued engagement and achievements of our graduates.

A special mention must be made of our students' visit to Hiroshima, a journey that combined education with empathy, leaving a lasting impression on all involved.

Through these pages, we capture the spirit of our university, a space where knowledge meets inspiration, and learning knows no boundaries.

Happy reading!

Warm regards,  
**Dr. Hetal Gaglani**  
Editor – REFLECTION

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

## RCOEM-TATA-CIIT

### Center for Invention Innovation Incubation & Training

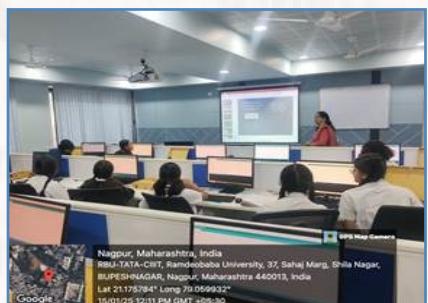
#### [A] Training Programs :



1] One day training program on “Solid Modeling 3D Printing & Scanning and Internet of Things (IoT)” was conducted from 8th to 9th January 2025 for students of **Bhavan's Vidya Mandir School, Chinchbhuvan, Nagpur** from 10.30 am - 5.30 pm, held by RCOEM-TATA-CIIT. A total 81 students participated and was coordinated by Dr. Alok Jha, Dr. Himanshu Shukla for the solid modeling 3D printing and Dr. Bhumika Neole, Dr. Chitrajan Rajan, and hands-on session by Mr. Shrikant Wankhede and Mr. Umendra Mukurane.



2] One day training program on “Solid Modeling 3D Printing & Scanning and Internet of Things (IoT)” was conducted from 15th to 21th January 2025 for students of **Bhavan's Vidya Mandir School, Civil Lines, Nagpur** from 10.30 am -5.30 pm, held by RCOEM-TATA-CIIT. A total 193 students participated and was coordinated by Dr. Alok Jha, Dr. Himanshu Shukla for the solid modeling 3D printing and Dr. Bhumika Neole, Dr. Chitrajan Rajan, and hands-on session by Mr. Shrikant Wankhede and Mr. Umendra Mukurane.



3] One day training program on “Solid Modeling 3D Printing & Scanning and Internet of Things (IoT)” was conducted from 30th, 31st Jan and 3rd Feb. 2025 for students of **Bhavan's Vidya Mandir School, Koradi, Nagpur** from 10.30 am -5.30 pm, held by RCOEM-TATA-CIIT. A total 104 students participated and was coordinated by Dr. Alok Jha, Dr. Himanshu Shukla for the solid modeling 3D printing and Dr. Bhumika Neole, Dr. Chitrajan



Rajan, and hands-on session by Mr. Shrikant Wankhede and Mr. Umendra Mukurane.



4] Three day's workshop programs on “**Multibody Dynamics with ADAMS Hexagon Software**” was conducted from 18th to 20th Feb. 2025 for students of **Shri Ramdeobaba University, Nagpur, from Mechanical Dept.** from 10.30 am-5.30 pm, held by the Mechanical Dept. from RCOEM-TATA-CIIT. A total of 23 students participated and were coordinated by Dr. Arun Kose and Dr. Vishal Shukla and supported by Mr. Umendra Mukurane.



5] A five-day faculty development program on “**Advancing Innovation through Rapid Prototyping & IoT Application**” was conducted from 25th to 29th March 2025 for faculty of **Shri Ramdeobaba University, Nagpur**, from 10.30 am to 5.30 pm, held by RCOEM-TATA-CIIT. A total of 09 faculty participated and were coordinated by Dr. Y. M. Sonkhaskar and learned from Dr. Chitrajan Rajan. Dr. Vishal Shukla also supported technical staff Mr. Shrikant Wankhede and Mr. Umendra Mukurane.



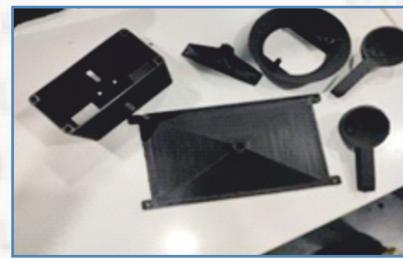
#### [B] Consultancy & Project :

- Mr. Chaitanya Hadge (ME) printed 3D parts for the project of the “robotic arms” designed with 3D software on 07 Jan 2025.
- Mr. Vedant Pachpohar (RGSTC Intern) printed 3D parts for the project of the “Designing and Manufacturing an innovative case for cleaning ear buds” 3D software design model on Jan 13, 2025.
- Mr. Arjun Singh (Trident Captain) printed 3D parts for the project, like bolts & fixers for the new vehicle & 3D software design model, on Feb. 08, 2025.
- Mr. Tejas Bhandarkar (TBI incubator) printed 3D parts for the startup (Beram Pvt. Ltd.) currently prepared for the GESA National to print for the autonomous drone system 3D software design model on March 04, 2025.
- Mr. Chaitanya Hadge (ME) printed 3D parts for the project of the “robotic arms” 3D software design model on 07 Jan 2025.
- Mr. Vedant Pachpohar (RGSTC Intern) printed 3D parts for the project of the “Designing and Manufacturing an innovative case for cleaning ear buds” 3D software design model on March 04, 2025.
- Mr. Ashwajeeth Wase & team students of Priyadarshini J. L. College of Engineering, Nagpur, printed 3D parts for the project of the “Weather Station” 3D software design model on March 04, 2025.
- Miss. Utkarsha Wankhede (Research Scholar) printed 3D parts for the project of the “Design & Development of Microsystem for Biosensing Application” 3D software design model on March 05, 2025.
- Mr. Apurve Trivedi & Team (3rd yr./ECE) printed 3D parts for the project of the “LPG monitoring & auto booking system” 3D software design model on March 25, 2025.
- Mr. Abhijeet Awasthi (4th Yr./BME) printed 3D parts for the project of the “Design & Development of Spectral Biosensor for Biomarker detection” 3D software design model on March 27, 2025.
- Mr. Pawan Sorte & Team (4th Yr./ ECE) printed 3D parts for the project of the “Digital Pharmaceutical Tablet Counter” 3D software design model on March 27, 2025.
- 3D parts print for the Sandeep Metal Craft Pvt. Ltd., Nagpur, for defence related works 8 assembly parts printed through Mr. Avinash Deshpande (General Manager).

## [C] Guest Lecture & lab Utilization :



- Mr. Harsh Gechode (BME) Utilization on Laser Cutting & Engraving machine for the project of “Analyte detection based on paper-based sensor” under guidance of Prof. Jitendra Zalke on Jan. 08, 2025.
- Miss. Utkarsha Wankhede (ECE full time research scholar) Utilization on Laser Cutting & Engraving machine for the project of “Colorimetric Cortisol Detection Device” under guidance of Dr. Rajesh Pande on Jan. 21, 2025.
- Mr. Harsh Gechode (BME) Utilization on Laser Cutting & Engraving machine for the project of “Analyte detection based on paper-based sensor” under guidance of Prof. Jitendra Zalke on Feb. 17, 2025.
- Mr. Abhijeet Awasthi (4th Yr./BME) Utilization on Laser Cutting & Engraving machine for the project of “Design and development of CRP Sensing Device” under the guidance of Dr. Sangeeta Palekar on March 05, 2025.
- Mr. Gaurav Bankar (3rd Yr./IT) students’ utilization on Laser Cutting & Engraving machine for the competitions such as “A X I S - V N I T and TECHNOXIAN’24” through Robotics and Aviation club RBU under guidance of Dr. Alok Jha on March 16, 2025.
- Mr. Harsh Taori students Utilization on Laser Cutting & Engraving machine for competitions such as “AXIS-VNIT” under guidance of Dr. Ashlesh Jaiswal on March 19, 2025.
- Mr. Chirag Singhal (2nd Yr/BME) Utilization on Laser Cutting & Engraving machine for the project of “Analyte detection



based on paper-based sensor” under guidance of Prof. Jitendra Zalke on March 22, 2025.

- Mr. Tejas Bhandarkar (TBI incubator) Utilization CIIIT resources and equipment for the startup (BeRAM Pvt. Ltd.) Drone R&D on Jan. 02, 2025.
- Utilization on the Design Lab for the Additive Manufacturing Lab software CAD of Mechanical Engg. Dept. students (3rd / 6th Sem) on January 2025.
- Utilization on the Design Lab for the three day’s training on solid modelling & 3D printing for RBU students of Mechanical Engg. Dept. on 27th to 30th January 2025.
- Utilization on the Design Lab for the Additive Manufacturing Lab software CAD of Mechanical Engg. Dept. students on 10th February 2025.
- Utilization on the Design Lab for the ADAMS Manufacturing lab of Mechanical Engg. Dept. students (4th yr.) on 18th, 19th, 20th February 2025.
- Utilization on the IoT Lab for the Training on IoT of IT Engg. Dept. students (2nd yr.) on 11th March 2025.



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



## Center for Invention, Innovation, Incubation and Training



### RBU-TATA-CIIT



Driving innovation through  
INDUSTRY - ACADEMIA  
SYNERGY





## School of Computer Science and Engineering

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

#### Faculty Corner

#### Faculty Ph.D. Awarded

1. Prof. Devisree Naidu has been awarded the Ph.D. degree in Computer Science and Engineering on 14th September 2024, from KIIT, deemed to be University, Bhubaneswar.
2. Prof. Sweta Jain has been awarded the Ph.D. degree in Computer Science and Engineering on 14th September 2024, from KIIT, deemed to be University, Bhubaneswar.
3. Prof. Arti Buche has been awarded the Ph.D. degree in Computer Science and Engineering on 16th Dec 2024, from Ramdeobaba College of Engineering, RTMNU, Nagpur.
4. Prof. Aarti Manish Karandikar has been awarded the Ph.D. degree in Computer Science and Engineering on 25th March 2025, from Ramdeobaba College of Engineering, RTMNU, Nagpur.

#### Guest Lectures Taken by Faculty

1. Dr. Chithraja Rajan and Dr. Niharika Das conducted Guest Lecture on Artificial Intelligence for CSE(DS) IV sem students on 08, March, 2025. The lecture was delivered by Dr. Swati Heera, Assistant Professor, Department of CSE, IIIT Nagpur

#### Publications

1. Neha Lanke published a paper titled 'Blockchain-Enabled Information Systems for Secure Health Management: A Case Study on Patient Data Privacy' in Journal of Information Systems Engineering and Management, ISSN: 2468-4376, Volume 10, Issue 1, Jan-2025, Pages 28 - 41, Scopus.
2. Uma Yadav published a paper titled 'Intelligent cervical cancer detection: empowering healthcare with machine learning algorithms' in IAES International Journal of Artificial Intelligence, Feb-2025, Volume 14, Issue 1, Pages 298 - 306 Scopus.
3. Priya Parkhi published a paper titled 'Blockchain-Powered Framework for Trust Enhancement in FinTech: A Comprehensive Trust Evaluation Approach' in Concurrency and Computation: Practice and Experience dated 01-02-2025, ISSN: 15320626, Volume 37, Feb 2025, Issue 3, 10.1002/cpe.8357, SCIE.
4. Yogesh Thakre published a paper titled 'A Read-out Scheme of 1T-1D DRAM Design with Transistor

5. Assisted Decoupled Sensing Amplifier in 7 nm Technology' in International Journal of Electronics, dated 16-01-2025, ISSN: 207217, Jan-2025, SCIE.
6. Yogesh Thakre published a paper titled 'FPGA Implementation of Compact Architecture for Lightweight Hash Algorithm for Resource Constrained Devices' in Communications on Applied Nonlinear Analysis dated 01-01-2025, Volume 32, Issue 2, Jan 2025, Pages 679 - 6912025, Scopus.
7. Praful R. Pardhi published a paper titled Blockchain for decentralized malware detection on android devices in Journal of Integrated Science and Technology, 13(4), 1084.Feb 2025, Vol. 13 No. 4 (2025), Scopus.
8. Praful R. Pardhi published a paper 'Content Moderation of Generative AI Prompts' in SN COMPUT. SCI. 6, 329 (2025) dated March 2025, Scopus.
9. Dr. Urmila Shrawankar published a paper titled 'Analysis and Performance Measure of Dynamic Cluster Based Hierarchical Real Time Scheduling for

Distributed Systems' in Journal -Concurrency and Computation: Practice and Experience ISSN-15320626, April 2025, Volume 37, Issue 6-8,Scopus.

10. Dr. Urmila Shrawankar published a paper titled 'Modi Script Handwritten Character Classification using Drop-out Induced Incremental Learning Approach' in Journal of Information Systems Engineering and Management, ISSN : 24684376, March 2025, Volume 10, Pages 370 - 383, Scopus.
11. Dr. Urmila Shrawankar published a paper titled 'Dynamic Navigation using AI for Autonomous Vehicle Systems' in Journal of Information Systems Engineering and Management, ISSN : 24684376, March 2025, Volume 10, Pages 400 – 414,Scopus.

12. Shubhangi Neware published a paper titled 'Image Enhancement Technique Based on Deep Learning and Hybrid Particle Swarm Optimization for Lung Tumor Classification' in Journal of Information Systems Engineering and Management, March 2025, ISSN: 2468-4376, Scopus.
13. Supriya Gupta Bani published a paper titled 'The Impact and Future of Computer Applications in Various Sectors using the IoT concept of Augmented Reality' in 'Nanotechnology Perceptions', Jan 2025, ISSN 1660-6795, 1119–1130, Scopus.
14. Supriya Gupta Bani published a paper titled 'Revolutionizing Healthcare: An Automated Decentralized IoT Ecosystem Powered by

Ethereum Smart Contracts' in ISTE Journal, Jan 2025, ISSN 0971-3034, UGC Care.

15. Sruthi Nair, Jayant M. Raut, Anjusha Pimpalkhende published a paper titled A Novel multi- method framework for 3D printed fiber-reinforced polymer in Asian Journal of Civil Engineering, Jan 2025, ISSN : 1563 - 0854 E - ISSN:2522-011X, Scopus.
16. Sruthi Nair, Bhagyashree Madan, Nikita Katariya, Ankita Mehta, and Purva Gogte published a paper titled 'Smart waste management and air pollution forecasting: Harnessing Internet of things and fully Elman neural network' in Waste Management & Research, March 2025, 2522-011X, SCIE.
17. Preeti Voditel, Aparna Gurjar, Priyadarshan Gahukar published a paper titled 'Prediction of Solar Power Generation and ground area estimation using KNN regression' in Journal of Information Systems Engineering and Management, Scopus.
18. Nikita Katariya, Bhagyashree Madan, Sruthi Nair, Ankita Mehta, and Purva Gogte published a paper titled 'Smart waste management and air pollution forecasting: Harnessing Internet of things and fully Elman neural network in Waste Management & Research', March 2025, ISSN: 2522-011X, SCIE.
19. Gunjan Keswani, Dubey P, Keswani V, Dubey P, Bhagat D published a paper titled 'Innovative IoT-enabled mask detection system: A hybrid deep learning approach for public health applications' in MethodsX, March 2025, ISSN : 2215-0161, Scopus.
20. Amit Pimpalkar, Vishnu Kant Soni, Vivek Shukla, S. R. Tandan, Amit Pimpalkar, Neetesh Kumar Nema and 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 (IJA CSA) Feb - 2025, ISSN:2156-5570, Scopus

21. Amit Pimpalkar, Dilip Kumar Jang Bahadur Saini, Nilesh Shelke, Arun Balodi, Gauri Rapate & Manoj Tolani published a paper titled 'Fine-tuned deep learning models for early detection and classification of kidney conditions in CT imaging' in *Scientific Reports*, March 2025, ISSN: 2045-2322, Scopus.

22. Bhagyashree Madan, Komal Mehta, C. Sudha, Priyanka Gupta published a paper titled 'An innovative conditional self-attention generative adversarial network with fennec fox optimization approach for resource allocation' in *Cognitive Radio Wireless Communication Systems in Expert System with applications*, March 2025, ISSN: 126788, SCIE.

23. Harshita Patil Published a paper titled 'AI Sensing Techniques for energy efficiency in 6 G Networks' in *2nd Global Conference on Decarbonizing India Towards Achieving Net Zero*, March 2025, Scopus.

24. Harshita Patil Published a paper titled 'ATM Security Enhancement using Encryption Technology' in *2nd International Conference on Computing*, March 2025, Scopus.

Security using AI & Data Science for Next-Generation Cyber Analytics" from 30 December 2024 to 04 January 2025, organized by Guru Nanak Dev Engineering College, Ludhiana, Punjab.

3. Prof. Dilipkumar A. Borikar attended an ATAL (Online) Faculty Development Program on "Leveraging Machine Learning and Data Science in Healthcare and MedTech" from 06 January to 11 January 2025 organized by Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur.

4. Prof. Dilipkumar A. Borikar attended an ATAL (Online) Faculty Development Program on "Transforming Industries with AI: Deep Learning Breakthroughs and Real-World Applications" from 20 January to 25 January 2025 organized by SRM Institute of Science and Technology, Ramapuram Campus, Chennai, Tamil Nadu.

5. Prof. Dilipkumar A. Borikar attended an ATAL (Online) Faculty Development Program on Online FDP on "High-Performance Computing (HPC): Foundations, Parallel Programming, and GPU Acceleration" from 27 January 2025 to 01 February 2025 organized by Lovely Professional University, Punjab.

6. Dr. Shubhangi Neware attended a faculty development program on Generative AI for Text with Large Language Models from February 03rd - February 12th, 2025 organized by Indian Institute of Information, Electronics and ICT Academy, (Phase II).

7. Dr. Shubhangi Neware attended a faculty development programme on "Data Science using Python" from 20/01/2025 to 24/01/2025 organized by NITTTR, Chandigarh.

8. Prof. Rasika Rewatkar attended an FDP on Emerging Trends in IT -2025 from 3rd - 7th February organized by ESC & CSE Dept, G. PREC, Kurnool, AP.

9. Prof. Rasika Rewatkar attended an FDP on "Embracing the Future: Innovation Education, Technology and Research-2025" from 3rd - 7th February 2025 organized by CSE Dept, M C E T, Hyderabad, Telangana.

10. Prof. Rasika Rewatkar attended an FDP on International Doctoral Research Workshop for All Disciplines from 25th March - 31st March 2025 organized by Research India Foundation (RIF) with Lincoln University College, Malaysia.

11. Prof. Harshita Patil attended a STTP workshop on Five Days Online Short-Term Training Program on "Gender Equality is a Myth!" on 30th December 2024 to 3rd January 2025 organized by Department of Basic Sciences, IIIT Nagpur.

12. Prof. Harshita Patil attended a workshop on Pre GCDI'25 Conference International Workshop on Energy System and Modelling ESM'25 from 4th - 5th March 2025 organized by Department of Basic Sciences, IIIT Nagpur.

13. Prof. Harshita Patil attended a Faculty Development Programme on "Smart Future: Harnessing IOT, 6G and Energy Optimization for a Sustainable Tomorrow" From 17th-28th March 2025 organized by Electronics & ICT Academies (Hub) NIT Warangal, NIT, Raipur, Co-ordinated by IIIT Nagpur.

14. Dr. Devishree Naidu attended a Faculty Development Program on 40 hours (3-Credits equivalent) Faculty Development Programme on "Quantum Technologies & Applications" from 28th Feb - 22 March 2025 organized by Electronics & ICT Academies, IIT Guwahati and others funded by MeitY and endorsed by DST-NQM/AICTE/UGC.

15. Nikita katariya attended Faculty Development Programme on "Biometrics Security in the Generative AI Era" from March 01-12, 2025 organized by the Electronics and ICT Academies at PDPM IIITDM, Jabalpur, MNIT Jaipur, IIT Roorkee, NIT Patna and IIT Guwahati.

16. Chithraja Rajan attended a Faculty Development Programme on "Next generation semiconductor device and material" from Feb 03-08, 2025 organized by Electronics and ICT Academies at PDPM IIITDM, Jabalpur.

17. Amit Pimpalkar attended a FDP on ATAL (Online) Faculty Development Program on "Transforming Industries with AI: Deep Learning Breakthroughs and Real-World Applications" from 20 January to 25 January 2025 organized by SRM Institute of Science and Technology, Ramapuram Campus.

18. Amit Pimpalkar attended the ATAL (Online) Faculty Development Program on Artificial Intelligence for Science and Engineering from 12/02/2025 to 22/02/2025 organized by National Institute of Technology, Nagaland.

19. Amit Pimpalkar attended the FDP on ATAL (Online) Faculty Development Program on Generative AI: Techniques, Tools, And Applications from 03/02/2025 to 08/02/2025 organized by National Institute of Technology, Delhi.

20. Khushboo Khurana attended a FDP on "Generative AI for text with Large Language Models" from 03/02/2025 to 12/02/2025 organized by Indian Institute of Information Technology, Nagpur.

## STTP/FDP/Other Training Attended by Faculty

1. Mrs. Neha Zade attended an online faculty development programme on "NLP Trends and Applications" from 13 January to 22 January 2025 organized by Electronics & ICT Academy, NIT Warangal in Association with Department of Data Science, G.H. Raisoni College of Engineering and Management, Nagpur, Sponsored by Ministry of Electronics and Information Technology (MeitY), GoI.

2. Prof. Dilipkumar A. Borikar attended an ATAL (Online) Faculty Development Program on "Emerging Trends in Information System

Dr. Chithraja Rajan granted with 5 idea/design patents and 2 innovation/utility patents are published.

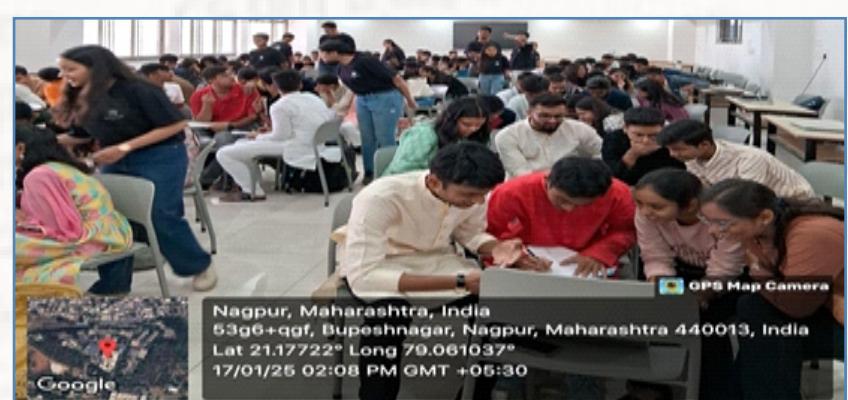


**Computer Science is  
The Operating System for  
All Innovations.**

## Departmental Activities

### Parents Meet

Parent Teacher Meet was conducted on 8th March, 2025 at Department of Computer Science & Engineering & Emerging Technologies, at 10.30 AM for IV, VI and VIII Semester. The meeting was commenced by Head of Department, Dr. P. S. Voditel, Head of the Department interacted with the parents and students and discussed students' achievements which includes prominent achievements of CSE students, results, placement activities, internships and elevated alumni positions during the meeting. She also suggested various solutions to student's queries for improving their performance. The parents were given the general observation about their ward's performance in the Internal Tests by class in-charge. The parents filled the feedback form and suggested various ways of improvement.



### Chapter Events

#### GDG Chapter :

##### Event – 1 :

**Spider Craft**, a fun filled technical competition was organized by GDG on Campus, RBU chapter, under the national level technical symposium-POLARIS-25 on 16/01/2025. This event featured four rounds- Aptitude, Image guessing, competitive programming and a fun game. A total of 76 teams (228 students) participated in the event. Khili Sharma and Ayan Sheikh from 1st year, BCA, RBU bagged the first prize.

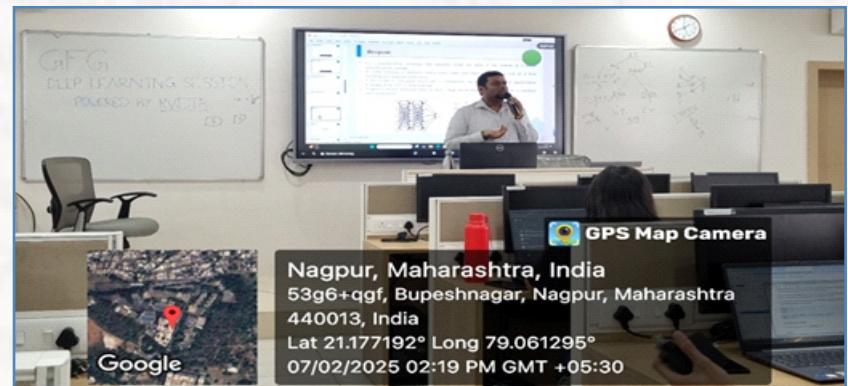
##### Event – 2 : Explore

GDG on Campus, RBU Chapter, organized an intra-college workshop on 07/03/2025 to educate, inspire, and facilitate meaningful connections among attendees by providing them with foundational insights and practical perspectives on emerging technologies. An overview of Machine Learning, App Development, Competitive Programming, Web Development and Cloud Computing were given by the GDG committee members. A total of 93 students attended the event.



### GFG Chapter : (GFGs Cinematic Universe) : Techni Verse of Thrills

The GCU-Techni verse of Thrills hosted by the Geeks for Geeks RBU Chapter on 17 Jan 2025, is a blended technical brilliance with a cinematic theme. Across three 2-hour slots, highlights included the Loki Tree and rounds like Tech Millionaire, Jungle Escape, and Syntax Showdown. Teams faced quizzes, puzzles, and coding challenges with twists like "Red Light, Green Light." Top performers won cash prizes and GFG goodies, leaving participants inspired and eager for more. 189 students participated in this event.



*Dr Nisarg Gandhewar delivering a session*

### Geek ICPC 2.0

The GeeksforGeeks (GFG) Chapter of RBU organized an engaging Competitive Programming (CP) event, starting with an insightful session by Yash Dubey, Ankita Pandey, and GFG team members. They shared effective problem-solving strategies for CP. This was followed by a two-hour CP

vision, NLP, and transformers, with a focus on model training. Students used GPUs on the NVIDIA platform for practical exercises. An assessment was held at the end, and successful participants received certificates from NVIDIA, gaining valuable industry-relevant deep learning experience.



*Geek ICPC 2.0 Winners*

## Blockchain :

The Seminar on 'Web 3 and cryptography' was arranged on 11 Jan 2025. The audience was encouraged to explore the future of blockchain technology. The event featured Mr. Rishikesh Kale, a renowned File coin Developer Advocate and 19x

Web3 Hackathon Winner. An alumnus of Shri Ramdeobaba College (2018-2022 CSE batch), he shared his journey in blockchain. His session covered Web3 evolution, decentralization, and career opportunities.



## ACM :

This event is held on January 17, 2025, under Polaris, engaged students in problem solving competitions. The event featured Roll and Rally, a fast-paced team challenge promoting efficiency and quick thinking; Prompted Perfection, encouraging AI-driven artistic and technical creativity; and Algorithm Assembly, a collaborative competition focused on algorithmic problem-solving.

Participants showcased creativity, teamwork, and technical skills, making it a valuable learning experience. The event fostered camaraderie, innovation, and skill development while strengthening students' connections with the ACM Student Chapter. It provided a platform for first- and second-year students to learn, compete, and grow in a dynamic environment.



## Students' Corner Toppers List

### CSE: III Semester:

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

## CSE : III Semester :

Sr. No.	Name	CGPA
1	VIDYASAGAR NITIN DADILWAR	10.00
2	VAIBHAV MANOJ SINGHAVI	10.00
3	ANKIT RAJESH PANDE	10.00

## VII Semester :

Sr. No.	Name	CGPA
1	VEDANT RAMESH BHUTADA	10.00
2	SUJYOT SUBHASH KOTHALE	10.00
3	GODWIN - SHALOM	10.00
4	ADWAIT AMOL PUNTAMBEKAR	10.00

## Student Achievements

### CSE :

1. Three students from VI semester Computer Science and Engineering – Jayesh Shete, Hariom Nabira, and Akshay Padiya secured the 1st Prize at the prestigious CYBERHACK-2025, a Cyber Security Hackathon organized by Nagpur Police held as part of Advantage Vidarbha on 7th, 8th and 9th February 2025. Demonstrating exceptional technical prowess and innovative problem-solving skills, the team successfully navigated complex cyber security challenges, distinguishing themselves from a competitive field of participants from across the region.

2. 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, a n 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.



*Cyberhacker 2025- Cyber Security Hackathon  
Winners at Advantage Vidarbha*

3. Shehzan Ahmed Sheikh, along with teammates Vidyut Chakrabarti and Sohaib Shaikh from VI Semester (Section-B), CSE Department, secured 1st position in the AI Hackathon held during AXIS'25 at VNIT Nagpur on March 22, 2025. The national-level, 12-hour hackathon challenged participants to develop AI-driven solutions to real-world problems. The team

won a cash prize of 5000 for their innovative performance.



## Best Paper Award

- Dhanshree Dharpure, a student of VIII Semester (Section-B), CSE Department, secured 3rd position in RBUCON.Computing'25, an international paper presentation event held online from February 20–22, 2025, organized by Ramdeobaba University in collaboration with Aurel Vlaicu University of Arad, Romania.

## Coding Competition / Technical Events

1. A team of IV Semester (Section-B) students from the Computer Science and Engineering Department comprising Moli Agrawal, Harshit Sahu, Akshat Jain, Prathmesh Kale, and Manthan Tapre, secured 3rd position in Aquahunt, a coding competition held during AXIS'25, a 2-day technical festival of VNIT Nagpur from March 22 to 23, 2025.

2. Akshat Ramniwas Tiwari, an IV (Section-A) Semester student of Section-A, Computer Science and Engineering Department, secured 3rd position in the event "Shooting Stars" at Xpecto 2025, organized by IIT Mandi. The international-level online technical competition was held from 29th to 31st March 2025.

3. A team of IV Semester (Section-C) students from the Computer Science and Engineering Department comprising Varun Singh, Sujal Hedau, Tushar Dhakate, and Harshal Makode secured 1st position in Techpitch, a technical competition held at S.B. Jain Institute of Technology, Management and Research, Nagpur. The event was conducted as an inter-college competition on February 23, 2025.

4. A team of VI Semester (Section-A) students from the Computer Science and Engineering Department comprising Devanshi Lalwani, Khushali Begde, Jatin Jasrotia, and Madhav Gupta secured 2nd position in HackSphere 2.0, a

national-level inter-college technical competition organized by The Code Breakers Club at Ramdeobaba University. The event was held on March 22, 2025.

5. A VI Semester (Section-A) student Shreya Dhanuka from the Computer Science and Engineering Department along with Arnav Tijare from the AIML Department secured 1st position in AutoBot, a national-level inter-college technical competition held during AXIS'25 at VNIT Nagpur from March 21 to 23, 2025.

6. A team of VI Semester (Section-A) students from the Computer Science and Engineering Department comprising Mohd Husain Khan, Harshita Khare, Devanshi Lalwani, and Nandini Malviya secured 3rd position in the ICDCIT Project Innovation Competition, a national-level inter-college technical event held at Kalinga Institute of Industrial Technology, Bhubaneswar from January 8 to 11, 2025.

7. A team of VI Semester (Section-A) students from the Computer Science and Engineering Department comprising Shivansh Dubey, Siddharth Bisht, and Sujal Nimje secured 1st position in ToyCathon, a national-level inter-college technical competition held at VNIT Nagpur, from March 21 to 22, 2025.

## Global Certifications

1. Shahid J. Sheikh, a VI Semester (Section-B) student from the CSE Department, successfully completed the Zscaler Zero Trust Certified Associate (ZTCA) certification offered by Zscaler Academy. The certification exam was conducted at Ramdeobaba University, Nagpur, from January 24–27, 2025, as part of an international-level, intra-college technical initiative. Shahid secured 1st position, validating his expertise in modern cybersecurity practices.
2. Shakti Zanzari, a student of VIII Semester (Section-B), CSE Department, successfully completed the Thoughtspot

Certification offered by Thoughtspot University. This international-level certification exam, conducted over 100 hours from February 20–28, 2025, evaluated advanced skills in analytics and data visualization. Shakti earned 1st position, demonstrating strong technical proficiency in modern business intelligence tools.

3. Ujjwal Vijay Prithyani, a student of VIII Semester (Section-B), Computer Science and Engineering, successfully completed the Cisco NetAcad Ethical Hacker Course, an international-level online certification by Cisco, held from March 19 to April 19, 2025. The 70-hour course focused on cybersecurity and ethical hacking

## Co-Curricular :

- Yadnik Bangale, a student of IV Semester (Section-C), secured 1st position at the prestigious National Level AIU Youth Festival organized by the Association of Indian Universities and hosted at Amity University, Delhi, on March 7, 2025. This cultural competition brought together top talents from across the country in a vibrant display of artistic excellence and creativity.
- Devyani Keche, a student of IV Semester (Section-B), along with her team, secured 2nd position in the Group Dance competition held under Stepverse - Manifest 3.0, a cultural fest organized by Symbiosis College of Engineering, Nagpur. The event took place on February 28, 2025, and featured enthusiastic participation from various colleges, making it a vibrant and competitive inter-college cultural event.
- A team of IV Semester (Section-C) students, including Shreyash Jaiswal, secured the 2nd position in the Group Dance event "StepVerse," held during Manifests 3.0 at Symbiosis Institute of Business Management, Nagpur, on February 28, 2025.
- Ayush Khetan, a VI Semester student from Section-B, participated in the Kabaddi University competition organized by RTMNU, held at Nabira College, Katol, from January 7–9, 2025. Representing RCOEM along with teammates including Ayush Yadav, Maniraj Singh, and Devesh, the team secured the 3rd position. The inter-college sports event witnessed strong competition among various colleges under RTMNU.

## Data Science :

1. HackVerse 5.0 was an exhilarating hackathon that witnessed the participation of over 750+ teams competing to solve real-world problems through innovative solutions. It was organized by National Institute of Technology(NIT) Surathkal, Karnataka. Our Students team comprising Mr. Shrujan Kharwadey (3rd Year, DS), Mr. Vedant Shirbhate (IT), and Mr. Samar Jadhav (IT)- developed RugGuardians, A project aimed at enhancing security and transparency in blockchain ecosystems. Their efforts and innovation was recognized on two fronts: Overall 2nd Rank among hundreds of team (Cash Prize of Rs. 50,000) and Best Project in Web3 Track (Cash Prize of Rs. 10,000)

Their efforts and innovation were recognized on two fronts: Overall 2nd Rank among hundreds of teams (Cash Prize of Rs. 50,000) and Best Project in Web3 Track (Cash Prize of Rs. 10,000).



**Students Receiving Certificate and prize money at HackVerse 5.0 NIT, Surathkal, Karnataka.**

- On 1st February 2025, our student Ms. Snehal Rakas (3rd Year, DS) had the privilege of participating in Pragyan Sansad: A Youth Parliament, organized by Think India VNIT Chapter, VNIT, Nagpur. Competing as a part of Team MAVERICKS, she secured the Second Place, marking a significant achievement in this intellectually stimulating event.



**Students Receiving Trophy at Pragyan Sansad VNIT, Nagpur.**

- The ETHSF Hackathon 2025, held in San Francisco from 12th -19th March 2025, was a week-long event organized by Devfolio, bringing together over 800,000 builders worldwide to innovate in decentralized technology. The hackathon, centered on Ethereum and Web3 technologies, featured various problem statements, including ZetaChain's d/acc Applications track, encouraging participants to create impactful blockchain solutions. Team

TECHALPHA, comprising Mr. Varad Bodkhe (3rd Year, DS), Mr. Gaurav Nilawar (3rd Year, DS), Mr. Omkar Kukadapwar (IT), and Mr. Anshul Palarpwar (3rd Year, DS), secured 1st Place under ZetaChain's problem statement, winning a prize of \$2,000. Their project, PredictX - Cross-Chain Prediction Market, stood out among global competitors for its innovative approach to decentralized prediction markets.

## Department of Information Technology and Security

### Faculty Corner Guest Lectures Taken by Faculty

- Dr. Purshottam J. Assudani delivered a lecture on "Growing as an AWS Solutions Architect: Know your Certification Route" on 8th January 2025 for Industry Professionals for Simplilearn.
- Prof. Kaushik Roy was invited as an Expert Resource Person for a Training programme on "Data Analytics with Knime & Tableau" organized by Regional Training Institute, Indian Audits and Accounts Department on 15th January, 2025.
- Prof. Kaushik Roy was invited as an Expert Resource Person for a Training programme on "Data Analytics with Tableau" organized by Regional Training Institute, Indian Audits and Accounts Department on 13th Feb, 2025.

### Publications

- Dr. D. S. Adane presented a paper titled "Real Time Content Creation for Academics" in Third International Conference on Recent Trends in Machine Learning and Image Processing, MLIP-2025, Hinweis, held from 22-23 February, 2025, Scopus Indexed.
- Dr. D. S. Adane presented a paper titled "Remote Voting System Using Biometric Authentication" in Springer Conference, held from 18-21 February, 2025, Scopus Indexed.
- Dr. P. D. Adane presented a paper titled "Park Tag: NFC Enabled Tracking System for Vehicles in Crowded Parking Areas" in Third International Conference on Recent Trends in Machine Learning and Image Processing, MLIP-2025, Hinweis, held from 22-23 February, 2025, Scopus Indexed.
- Dr. A. V. Chandak published a paper titled "Application of Advanced Data Fusion and Hybrid Machine Learning Techniques for Strength Prediction and Optimization of Fly-Ash Based Sustainable Concrete" in SN Computer Science Journal in February 2025, Scopus Indexed.
- Dr. S. Bondre published a paper titled "Intelligent cervical cancer detection: empowering healthcare with machine learning algorithms"



in IAES International Journal of Artificial Intelligence in February 2025, Scopus indexed.

- Dr. Shweta Bondre published a Book chapter on "Deep Reinforcement Learning in Robotics and Autonomous Systems" with ISBN No. 978-0-443-30146-9 on 1st January 2025.
- Dr. Shweta Bondre published a Book chapter on "Navigating Remote Learning Cloud-Powered Tools Transforming Education" with ISBN No. 9781003472537 on 26th March 2025.
- Dr. Shweta Bondre published a Book chapter on "Cloud architecture for education technology" with ISBN No. 979-836939696-4, 979-836939694-0 on 8th April 2025.
- Dadiyala, C., Ghate, M., Shekdar, A., Rajkondawar, P., Chaure, S., & Zanwar, Y. (2024, May). Machine-Learning-Driven Detection of Malicious Emails and Fake Websites. In Doctoral Symposium on Computational Intelligence (pp. 343-364). Singapore: Springer Nature Singapore. (SCOPUS)
- Nature-Inspired Multi-Objective Reconfiguration of Antennas: Harnessing the GWO, FFO, and ALO for Adaptive Multiple Application Performance. Sruthi Nair, Harshala Shingne, Hitesh Gehani, Shweta Dhondse, Pankaj H. Chandankhede, Snehlata Wankhade. (SCOPUS)
- Exploring the Deepfake dilemma and the evolution of detection techniques. Dadiyala, C., Harshala Shingne, Rashmi Welekar, Himanshu Dubey, Arkaj Tiwari., Journal of Information Systems Engineering and Management Vol. 10 No. 26s (2025) DOI: <https://doi.org/10.52783/jisem.v10i26s.4213> (SCOPUS)

## STTP / FDP / Other Training Attended by Faculty

- Dr. S. S. Balpande completed a 17 hours of Online Certification Course course from Coursera on 'Introduction to Embedded Machine Learning' authorized by Edge Impulse in February 2025.
- Dr. S. S. Balpande attended a One Day Faculty Orientation Program on "Empowering Academia: Integrating High-Performance Computing in Education and Research" organized by Department of Computer Science and Engineering, IIIT Nagpur, Walchand College of Engineering, Sangli under the aegis of National Supercomputing Mission, Government of India on 6th January 2025.
- Prof. P. V. Kokardekar completed a Faculty Development Program on Generative AI for Text with Large Language Models from 3rd to 12th February 2025 at IIIT, Nagpur.
- Dr. S. Bondre completed One week Faculty Development Program on Introduction to Generative AI Models and Applications from 20th to 25th January 2025 conducted by R.V.R. & J.C. College of Engineering.
- Prof. J. Nanwani completed One week Faculty Development Program on Next Gen AI Skills : A Practical Approach for educators from 24th to 28th March 2025 conducted by VIT, Pune.

## Book Chapter Published:

- GPUs in Big Data Acceleration Techniques, Madhavi Sadu, Charanjeet Dadiyala, Rajeshwar Balla, Book, Parallel and High-Performance Computing in Artificial Intelligence, Edition 1st Edition, First Published 2025, Imprint Auerbach Publications, Pages 13, eBook ISBN 9781003425458 Parallel and High - Performance Computing in Artificial Intelligence Pages 147 - 1591 January 2025 (SCOPUS)

## Departmental Activities Parents Meet and Events

- Information Technology department conducted the mega event "COLOSSEUM 15.0" – A national level technical event, under Semicolon Tech Club (STC) of RCOEM on 07-08 February, 2025. Following events were conducted at Colosseum 15.0: Grandmaster's Jeopardy, Infinity Quest, Maayajal, Mental Marathon etc.
- The Parent Teachers meet was organized by the Department of Information Technology on 3rd March, 2025 for IV, VI and VIII semester IT. The academic Performance of the students was discussed with the Parents. Dr. S. S. Balpande, Head of the Department took the feedback and suggestions of the parents for overall improvement of the department.

## Departmental Activities Parents Meet and Events

SNo.	Conference/STTP/Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Guest Lecture on Higher Studies Preparation	Mr. Deepankar Banik, an Aptitude Master Trainer, Edtech content creator (iQuanta), Nagpur.	02 hours	15th Jan 2025
2	Guest Lecture on Effective Communication and Problem Solving	Mr. Apoorva Munshi, Senior Security Engineer at Confluent, Seattle, Washington, United States	02 hours	16th Jan 2025
3	Guest Lecture on "Neuro Cognitive Model of Learning and Development" was organized	Dr. Anuj Jajoo, Senior Principal Consultant - Learning @ Cyber Security with Infosys Ltd. India.	02 hours	7th February 2025

## Student Achievements

- Vedant Shirbhate and Samar Jadhav, students of 6th semester IT Won 2nd Prize in Hackverse 5.0 Hackathon held at NIT Surathkal, Karnataka Campus on 11th and 12th January 2025.

## Any Other Activity Beyond Academics

- 78.8% of 2024-25 Batch eligible IT students got placed through campus drive.
- Top IT companies like D.E. ShawPorter, Nutanix, IBM, Accenture, C&R Software, IBM, VConstruct, Aspect Ratio, Go Comet, Global Logic selected 50 students from the Department.
- 40 students completed Full Time Internship in VIII semester.

The placement details of department for the session 2024-25 are as follows:

Sr. No	Company
1	D.E Shaw
2	Nutanix
3	Porter
4	ZS Associates
5	Aspect Ratio
6	C&R Software
7	TCS
8	Go Comet
9	Fendahl
10	Codechef
11	TCS
12	vConstruct
13	Bounteous
14	Softlink
15	Globallogic
16	Siemens
17	Blue Altair
18	Accenture
19	Bristlecone
20	Capgemini
21	Cognizant
22	IBM
23	Init
24	TCS
25	Infosys

## Department of Computer Science and Applications

### Faculty Corner

#### Publications

1. Dr. Satyajit Uparkar, Prof. Yoginee Surendra Pethe and et al., have published a paper titled “Multi-criteria decision-making approaches to resource optimization in renewable energy systems” in “Renewable Energy” with ISSN 09601481, Volume 245 (Scopus).
2. Prof. Yoginee Surendra Pethe and et al., has published a paper titled “The optimization of design and performance in hybrid organic/inorganic LEDs toward next-generation high-efficiency LEDs: application of multi-model hybrid machine learning approach” in Journal of Computational Electronics with ISSN 15698025, Volume 24 Issue 3 (Scopus).
3. Prof. Yoginee Surendra Pethe and et al., has published a paper titled “Strength prediction of fly ash-based sustainable concrete using machine learning techniques: an application of advanced decision-making approaches” in Multiscale and Multidisciplinary Modeling, Experiments and Design with ISSN 25208160, Volume 8 Issue 1(Scopus).
4. Prof. Yoginee Surendra Pethe and et al., has published a paper titled “Explainable AI for Fraud Detection: Enhancing Transparency and Trust in Financial Decision-Making” in Communications in Computer and Information Science 2nd International Conference on Emerging Wireless Technologies and Sciences, ICEWTS 2024 with ISSN18650929 , Volume 2399 CCIS (Scopus).
5. Prof. Aparna Gurjar and et al. has published a paper titled “Prediction of Solar Power Generation and Ground Area Estimation Using KNN Regression” in Journal of Information Systems Engineering and Management with e-ISSN: 2468-4376 (Scopus).
6. Prof. Aparna Gurjar and et al. has published a paper titled “Foetal Health Prediction using Random Forest and Support Vector Machine” in Journal of Neonatal Surgery ISSN(Online): 2226-0439 Vol. 14, Issue 10s (2025) (Scopus).
7. Prof. Punam Khandar presented a paper titled “EXPLORING A BSTRACTIVE SUMMARIZATION OF PRE-TRAINED MODELS: A STUDY ON GPT-2, T5, PEGASUS AND BART” in the Internal conference RBUCON’25: Future Computing Technologies for Societal Development on 20.02.25. The paper is selected for publication in the journal “Journal of Information Systems Engineering and Management”, with ISSN 2468-4376 (Scopus).
8. Dr. Shubhangi D Mohod has published a paper titled “Ethical and Societal Implication of Sentiment Analysis using NLP in Educational Feedback System” in Journal of Information Systems Engineering and Management with ISSN 2468-4376 Volume 2025, 10, Issue 15s, (Scopus).

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

1. Prof. Aparna Gurjar has attended FDP on Artificial Intelligence: Knowledge Representation and Reasoning from Jan to Apr 2025 organized by NPTEL-AICTE and IIT Madras.
2. Prof. Bindiya Turkar has attended FDP from Jan 25 to Apr 25 organized by NPTEL/SWAYAM
3. Prof. A. Gurjar, Prof. P. Dubey, Prof. B. Turkar, Prof. A. Jaiswal, Prof. A. Rokade and Prof. V. Pitroda have attended PHD Colloquium at International Conference RBUCON.Computing’25 during 20th Feb- 22th Feb.
4. Dr. Shubhangi D Mohod has

attended an international conference ICAMT25 arranged by Sadabai Raisoni Women's College Nagpur.

#### 2. Visit to Persistent Systems, Nagpur

The MCA Semester IV of RBU along with two faculty members were invited for the Online session on “Writing Code Effectively with GenAI Tools”. The speaker for this session was Dr. Viraj Kumar, of IISc, Bengaluru. Case studies were discussed during this session. There was a separate session for faculty member in the afternoon which was followed by the student session. Among the MCA Faculty members, Dr. R. Hablani (HoD, MCA), Dr. S. D. Upadhye, Dr. S. S. Uparkar and Prof. Abhijeet Agrawal along with ACM RBU coordinator Dr. D. Naidu were present. Total 62 students of MCA Sem II attended this session. An interactive session was conducted under ACM Nagpur chapter at Persistent, Nagpur. Dr. S.D. Upadhye and Dr. S.S. Uparkar were the coordinators of this visit that was conducted under ACM Nagpur chapter at Persistent, Nagpur.

### Departmental Activities

#### Industrial Visits

##### 1. Visit to Quick Heal Foundation, Pune

The Four portfolio holders from MCA, RBU were invited for the award ceremony under various categories of Cyber Shiksha - Cyber Suraksha Abhiyan. The Visit was undertaken to summarize the various achievement of different colleges under this activity.

The portfolio holders were made aware about the next session for 2025-26. This was a day long activity at Quick Heal Foundation, Pune. Ms. Sugandha Dani presided over this visit. Dr. S.S. Uparkar was the Incharge coordinator of this visit.

#### Parents Meet

Parents - Teachers meet was conducted by the Department of Computer Applications on 22nd March 2025 for MCA Semester-4, MCA (AIML) and BCA Semester-2 students, 10:00 am onward.

13 Parents 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 the ward's academic

performance as well as college attendance.

The parents and students were made aware of the teaching learning process, the placement efforts and the other novel practices of the Department. The parents interacted with the Head of the Department, Dr. R. Hablani. The HOD answered their queries and informed them about the various initiatives which were already conducted as well as those planned in near future for the students in the Department.



Dr. R. Hablani, HOD, interacting with a parent

## Conference, STTP and Guest Lectures Organized in Department

Sr. No.	Date	Name and affiliation of the expert/speaker	Topic	Semester	No. of Students Attended	Faculty Coordinator
1	04/01/2025	Dr. Kanchan Naidu, MBA, RCOEM	Financial Literacy	IV	35	Dr. S. S. Uparkar
2	04/01/2025	Pranay Sipani, Project Lead, Kizora	Cutting Edge Technologies of IT Companies	IV and II	87	Dr. S. S. Uparkar
3	07/01/2025	Nilesh Dhobale, Project Lead, Persistent, Nagpur	Sales Force	IV	30	Dr. S.S. Uparkar
4	07/01/2025	Bhushan Gandhi, Project Lead, Persistent, Nagpur	Sales Force- Applications	IV	30	Dr. S.S. Uparkar
5	27/03/2025	Mr. Bhoopendra Singh Business development Manager, ETS India.	GRE & TOEFL,	II ( BCA & MCA)	35	Dr. S.S. Uparkar, Prof. A. Jaiswal, Prof. V. Pitroda



*Students with the SPOC coordinator*



*Student campaigner educating diverse sections of society about digital safety*

## Students' Corner : Student Achievements

1. The Quick Heal Foundation, Pune in collaboration with Shri Ramdeobaba College of Engineering and Management, Nagpur successfully organized a Cybersecurity Awareness Campaign aimed at educating diverse sections of society about digital safety and security. The campaign was conducted in multiple phases, ensuring maximum outreach and impact.

The total remuneration paid for the activity is 1,28,000/- by Quick Heal Foundation, Pune.



*Cyber Shiksha Suraksha  
(Earn and Learn Campaign) Banner*



*Cyber Shiksha Suraksha committee members*

## Other Activities :

1. Dr. S. Uparkar, Prof. Y. Pethe, Prof. M. Ukey, Prof. P. Khandar and Dr. Shubhangi D Mohod were the Reviewers for Internal conference RBUCON'25: Future Computing Technologies for Societal Development, arranged by Ramdeobaba University.
2. Dr. Shubhangi D Mohod was the Reviewer for international conference ICAMT25 arranged by Sadabai Raisoni Women's College Nagpur.
3. One-Day Workshop on Self-Awareness and Personal Interview Techniques for MCA Sem. IV, students was conducted by Dr. Hemlata Dubey on 18/01/2025. The objective of this workshop was to improve MCA students' self-awareness and interview skills, boosting their confidence and readiness for the job market. The workshop successfully enhanced students' self-awareness and interview skills. Such workshops in future could benefit from extended sessions and follow-ups for continued learning.



## School of Electrical and Electronics Engineering

### Department of Electrical Engineering

#### Faculty Corner

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

1. Prof. M. B. Gaikwad have successfully completed one week online workshop on “Artificial Intelligence Applications to Microgrids and EVs” organized by the Department of Electrical Engineering, NIT Jamshedpur, Jharkhand, India during the 25 to 29 January 2025.
2. Dr M. V. Palandurkar have successfully completed eight week NPTEL course, “Digital Power System Protection”, organized by Indian Institute of Technology, Roorkee during January to March 2025.
3. Dr. S.D.Naik presented paper titled, “Harmonic Reduction in Power System” at International Conference on Advances in Power Electronics and Instrumentation Engineering (PEIE-2025), Jan 30-31, 2025; in Bengaluru, India.
4. Design Patent granted for an invention titled “Quick Nailer 440370-001, cbr 223030 “filed by Dr. P. A. Salodkar on 12/03/2025.
5. Design Patent granted on 13/01/2025 for an invention titled “Solar and Wind Energy Based Vehicle Charging Station” 438692-001, filed by Prof.(Ms.) Manisha B. Gaikwad on 27/11/2024.

#### Publications

1. 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).
2. Dr P. A. Salodkar, Vallabh Acharya, Krishna Nabira, Sarthak Wankhede have published a paper titled “Optimizing Industrial Operations with PLCs: A Deep Dive into Data Exchange” in Nanotechnology Perceptions ISSN 1660-6795  
Volume 20 No.7 (2024) page no. 1852-1862

#### Conference Publications

1. Dr. Shankarshan Prasad Tiwari presented 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) 2025 Jan 20 (pp. 1-5). IEEE. (Scopus indexed).
2. Dr. Prachi Salodkar and Hitesh Maidurkar presented paper titled, “Electric Vehicle Control Protocol for on Board System” in 1st International Conference on Sustainable Energy Technologies and Computational Intelligence,

SETCOM 2025 Gandhinagar 21 February 2025 through 23 February 2025 Code 207866.

3. Dr. Prachi Salodkar, Sartak Wankhede, and Praful Mishra presented paper titled, “Application of PLC using MQTT protocol and AWS Services” in 4th IEEE International Conference on Emerging Frontiers in Electrical and Electronic Technologies, ICEFEET 2024 Patna 21 November 2024 through 23 November 2024 Code 206775.
4. Dr. Prachi Salodkar, Vallabh Acharya and Krishna Nabira presented paper titled, “Implementation of a Wireless Energy Monitoring and Databasing System Using PLC” in 3rd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems, ICPEICES 2024 Delhi 26 April 2024 through 28 April 2024 Code 203533

5. Dr. Prachi Salodkar, Vallabh Acharya and Krishna Nabira presented paper titled, “Automatic Solar Tracking System Using Siemens PLC” in 9th International Conference on Advances in Energy Research, ICAER 2023 Mumbai 12 -14 December 2023 Code 320479 Green Energy and Technology Pages 357 – 365 2024
6. Dr P. V. Kapoor, Dr U. B. Mujumdar, Dr G. N. Goyal presented a paper titled, “Solar Powered Eggs Incubator with Battery backup for Backyard Poultry

Farming: A case Study” in National Symposium on Green Energy Interventions to Support MSMEs in Technology-Deprived Areas’, MGIRI, Wardha on 13th- 14th Feb 2025.

7. Dr. S.D.Naik presented paper titled, “Harmonic Reduction in Power System” at International Conference on Advances in Power Electronics and Instrumentation Engineering (PEIE-2025), Jan 30-31, 2025; in Bengaluru, India.

Journal No. 06/2025 Dated 07/02/2025

4. Design Patent granted for an invention titled “Quick Nailer 440370-001, cbr 223030 “filed by Dr. P. A. Salodkar on 12/03/2025.
5. Design Patent granted on 13/01/2025 for an invention titled “Solar and Wind Energy Based Vehicle Charging Station” 438692-001, filed by Prof.(Ms.) Manisha B. Gaikwad on 27/11/2024.

### Departmental Activities

#### Industrial Visits

#### 1. Visit to Koradi Thermal Power Station

Students of B.Tech.(EE) Sem-VI along with faculty members visited the Thermal Power Station Plant, Koradi on 21st February 2025. This visit was conducted to support the theoretical knowledge gained by the students through the course “Power Station Practice” which is being studied by them as a part of curriculum. During this visit, the students got exposure to the complicated and robust structure of Thermal generation station and power generation processes and their industrial applications.

The visit was organized by Prof. S. U. Umredkar and was accompanied by Dr. Manjusha V Palandurkar. Around 35 students joined the same. The Chief Engineer of Koradi Thermal Power Station and Executive Engineer extended their cooperation to make the visit very informative for the students.

#### Patent Granted

1. A Utility patent has been granted for an invention titled “A Multi-Phase Multi-Pole Induction Motor Drive For Electric Vehicles” filed by Prof Sheetal Umredkar on 13/02/2025.
2. Patent published for an invention titled “A System For Harnessing Electromagnetic Energy From High Voltage Transmission Lines” filed by Dr V. A. Huchche on 14/03/2025.
3. Design Patent granted for an invention titled “Multipurpose Soap holder 440369-001” filed by Dr. P. A. Salodkar 07/02/2025

**Industrial Visit to Koradi Thermal Power Station**

## Parents Meet, Alumni Meet and Departmental Installations or Events

### 1. Parent-Teacher Meet of IV, VI & VIII-semester

The parent-teacher meeting of IV, VI and VIII semester students was held on 08/03/2025 (Saturday) at 11:00 am EE-2 class room Electrical Engineering, Department.

The main objective of the PTM was to update the parents about the academic performance and personal development of their wards. Head of the Department, Dr. U. B. Mujumdar, PTM Coordinator Dr. S. C. Rangari, and the class teachers Prof. M. B. Gaikwad (IV Sem), Prof P. V. Kapoor (VI Sem) and Prof P.A Salodkar (VIII sem) welcomed the parents. Total of 15 parents along their wards attended the meeting.

Head of the department, Dr. U. B. Mujumdar, along with course coordinators were available for interaction with Parents. All class teachers provided a comprehensive overview of students' academic performance in unit test1, attendance and areas for improvement. Class teachers addressed concerns related to student attendance and punctuality, emphasizing that consistent attendance is crucial for academic success.

Parents expressed satisfaction with the efforts taken by the faculty for student progress.

### 2. Parent-Teacher Meet of RBU II semester

The parent-teacher meeting of II Semester students under Ramdeobaba University, was held on 15/03/2025 (Saturday) at 11:00 am in the EE-2 class room Electrical Engineering, Department.

HOD, Dr. U. B. Mujumdar, Dr. S. C. Rangari, PTM Coordinator and the class teacher Prof. V. A. Huchche welcomed all parents. A total of 12 parents along their wards attended the meeting. Head of the department, Dr. U. B. Mujumdar, along with course coordinators was available for interaction with Parents. Prof V. A. Huchche provided a comprehensive overview of students' academic performance in unit test1, Teachers assessment, theory/Lab attendance and areas for improvement. She had discussed concerns related to student attendance and punctuality, emphasizing that consistent attendance is crucial for academic success. HOD Sir encouraged parents to motivate students for regular class attendance.

**Glimpses of Parent-Teacher Meet**

### 3. Anveshan-25 : Innovation & Creativity in Electrical Engineering at RBU

A celebration of technological advancements and creative ingenuity with applications of emerging technologies like Internet of Things and AI in Electrical Engineering was witnessed at Anveshan'25 organised by the IEEE PELS & IES Student Joint Chapter and the Electrical Engineering Students' Association of Department of Electrical Engineering on 7th and 8th March 2025.

The event featured a Project Competition, Technical Quiz and Workshop on IoT applications. Total 40 teams from various engineering colleges in Vidarbha were shortlisted for the project competition. The key attractions were projects in the area of Human safety, renewable energy, Robotics and automation, IoT, Electric vehicle, all demonstrating students' technical expertise. The event was inaugurated by Mr. Rahul Tarnekar, CEO, Kizora Software Pvt. Ltd., Nagpur. In his keynote address, Mr. Tarnekar emphasized on the importance of core engineering with multidisciplinary skillsets and IT tools for addressing the challenges of industry in current global context. He congratulated Ramdeobaba University for introducing a B.Tech. program on Electrical Engineering with AI Applications and a M.Tech. program on Electric Vehicle Technology which are the need of hour.

In the IoT Applications workshop, participants were given hands-on training for using various IoT platforms and interfacing sensors to IoT boards. Prof. Vishal Rathi and Prof. Shubham Anjankar of RBU conducted the training. The technical quiz was conducted in three rounds by the students of Electrical Engineering department.

The event was successfully organized by Mr. Aniket Kalamkar, Mr. Sidhart Chawre, Ms. Tanushree Waratkar and other student office-bearers under the guidance of faculty Advisors Dr. V. A. Huchche, Dr. Gaurav Goyal, and all other faculty members of the department. Dr. Rajesh Pande, Vice-Chancellor, RBU and Dr.

Manoj Chandak, Principal, RCOEM Nagpur congratulated the department and student organisers for the success of the event.

**Glimpses of ANVESHAN-2025**

### 4. IEEE Jt. Chapter PELS IES & EESA Installation Ceremony and Launch of Potential 2.0

The Electrical Engineering Department of Ramdeobaba University celebrated a landmark event on 15th January 2025 with the installation of the IEEE Joint Chapter PELS IES and EESA, alongside the launch of the department's annual magazine, Potential 2.0. The event was graced by Mr. Nitin Sudame, Founder Director, Spacewood SOS, Dr. S.B. Bodhke (Registrar, RBU), Dr. U.B. Mujumdar (HoD), and Dr. S.D. Naik (Deputy Director, SEEE).

The ceremony commenced with the traditional lighting of the lamp, followed by inspiring speeches from IEEE President Mr. Aniket Kalamkar and EESA President Mr. Siddharth Chhawre, who highlighted past achievements and future goals. Dr. Bodhke emphasized the importance of such platforms in fostering student innovation and collaboration. Newly elected office bearers received their badges and pledged to uphold the values of their societies. The highlight was the unveiling of Potential 2.0 by the dignitaries.

In his keynote, Mr. Nitin Sudame captivated the audience with his inspiring words: "Opportunities don't come knocking—they are created. Platforms like IEEE and EESA are your gateways to a future brimming with possibilities." He urged students to step beyond

their comfort zones and seize every chance to learn and lead.

The event concluded with a vote of thanks by Ms. Tanushree

Waratkar and Ms. Kammya Paradhi, marking the beginning of a promising academic year.



**EESA and IEEE Jt. Chapter PELS IES Student Body 2024-25**



**Unveiling of Potential 2.0**

## 5. Urjaa 2025 : A Celebration of Unity, Talent and Tradition

The Electrical Engineering Department of Shri Ramdeobaba College of Engineering and Management, in collaboration with EESA and the IEEE Student Joint Chapter of PELS, organized URJAA 2025 from 30th January to 1st February 2025, exclusively for Electrical Engineering students. With over 100 participants, the event aimed to foster interaction, encourage extracurricular involvement, and strengthen the department's sense of community.

The event began with an inauguration ceremony led by Dr. S.B. Bodkhe, Dr. U.B. Mujumdar, and faculty,

alongside the unveiling of the URJAA banner. Traditional attire, fun games for faculty, and a symbolic hand-printing activity set a festive tone. The second day featured sports competitions like volleyball, basketball, and tug of war, followed by Musical Jamming and a lively DJ night. The final day included auditions and the finale of Mr. and Ms. Electrica, along with a vibrant cultural night showcasing student performances and a fashion walk. The evening concluded with prize distribution, another DJ session, and a celebratory dinner.

URJAA 2025 was a resounding success, uniting students through joy, creativity, and collaboration.



**Glimpses of URJAA**

## 6. Report on Visit to the Parliament House, New Delhi

In an extraordinary and enriching educational experience, 50 students and 3 faculty members from Ramdeobaba University (RBU), Nagpur, visited the Parliament House in New Delhi on February 20, 2025. This unique opportunity came from a special invitation extended by the Honourable Vice President of India, Shri Jagdeep Dhankhar, during the inauguration of the Digital Tower at RBU. Impressed by the university's contributions to education and innovation, the Vice President personally invited the students to witness the democratic processes of the nation in action.

The students toured the Old Parliament House, exploring the Lok Sabha, Rajya Sabha, and the historic Central Hall - where Jawaharlal Nehru delivered his

iconic "Tryst with Destiny" speech. The tour concluded with a visit to the newly designed Lok Sabha and Rajya Sabha, each adorned with peacock and lotus motifs, respectively along with Museum Gallery, where India's cultural and democratic heritage is showcased through stunning artwork.

From Electrical department Dr. Gaurav Goyal accompanied the students along with two more faculties from another department. Following students from electrical department were the part of the trip.

1. Kammya Pardhi :  
B.Tech III Year
2. Tapesh Baghele :  
B.Tech II Year
3. Nishtha Choudhary :  
B.Tech I Year



## Students' Corner Student Achievements

1. Om Wankhede student of second year (EE), A versatile talent with achievements in Boxing, representing the college at Khasdar Mahotsav (Boxing Senior Weight Category 67-71 kg) from 14th to 19th January 2025, and got Gold Medal.



## Student Placements

### Undergraduate Students VII semester

S.No	Name of Company	Name of Students
1	Bajel Projects limited	Sanket Anil Bawistale Harsh Eashwar Taiwade
2	Reliance Industries Limited	Ankit Jai Prakash Rai Darshan Ganesh Nagpure Janvi Jitendra Suryawanshi
3	Torrent Power	Aditi Ravindra Dashputre Khushi Narayan Laycha Anil Ravindra Ughade Anshit Vijay Nikhade Ashutosh Chandrakant Tiwari Pratham Lovkesh Chhangani
4	Linde	Aniket Avinash Kalamkar
5	Bosch	Praful Nandkishor Mishra
6	Mahindra and Mahindra	Diya Tembhurne
7	Johnson Control	Zeeshan Shakeel Ahmed Shah
8	Eco Matrix	Diya Tembhurne Soniya Sahu

## Department of Electronics Engineering

### Guest Lectures Taken by Faculty

1. Prof. Lokesh Heda organized a guest lecture titled "Understanding SRE: Key Concepts and Practices for Aspiring Engineers and Career Aspects" on January 27, 2025, for final-year students of the Department of Electronics Engineering at RBU, Nagpur.
2. Dr. B. M. Hardas delivered a lecture on "Indian Knowledge System" on March 24, 2025, at Smt. Mesarbanu College of Science and Commerce, Akola.
3. Dr. B. M. Hardas delivered a lecture on "Intellectual Property Rights" on March 24, 2025, at Smt. Mesarbanu College of Science and Commerce, Akola.

### Journal Publications

1. Dr. Pankaj Joshi has published a paper titled "Design of area and power-competent FFT architectures with radix-4 butterfly structures" in Advances in Nonlinear Variational Inequalities with ISSN: 1092-910X, Date of Pub.: 09-02-2025 (Scopus).

Approach for Healthcare Management" in Journal of Information Systems Engineering and Management with eISSN: 2468-4376, Year of pub.:2025, (SCOPUS)

6. Prof. Jitendra B. Zalke has published a paper titled "Deep Learning-Enhanced Portable Chemiluminescence Biosensor: 3D-Printed, Smartphone-Integrated Platform for Glucose Detection" in Journal of Bioengineering, with ISSN: 2306-5354, Date of Pub.: 27 January 2025, (SCIE).
7. Dr. Jayu Kalambe, has published a paper titled "A Portable Smartphone-Based 3D-Printed Biosensing Platform for Kidney Function Biomarker Quantification" in Biosensors MDPI Journal, with ISSN: 2079-6374, Date of Pub.: 18-03-2025 (SCIE).
8. Prof. Smita Daware, has published a paper titled "Dual-Tree Complex Wavelet Transform for the Automatic Detection of the Common Cold Based on Speech Signals" in Circuits Systems and Signal Processing, with eISSN: 0278-081X, Year of pub.:2025, (SCIE).
9. Dr. Prashant Dwivedy, has published a paper titled "P-NU-NOMA VLC Systems: Performance Under Imperfect SIC and CSI" in IETE Journal of Research (Taylor & Francis), with ISSN: 0974-780X, Year of Pub.:Jan-2025 (SCI).
10. Prof. Shubham Anjankar, has published a paper titled "Multi-technique-based electrochemical sensing of lipoarabinomannan (LAM) antigen as a biomarker for early-stage tuberculosis diagnosis" in Journal of Nanotechnology, IOP, with ISSN: 1757-8981, Date of Pub.:03/03/2025 (SCIE).
11. Dr. Pankaj Joshi, has published a paper titled "Runtime Reconfigurable Architecture for Elliptic Curve Cryptography using Dynamic Partial Reconfiguration" in Communications on Applied Nonlinear Analysis, with ISSN: 1074-133X, Year of Pub.:2025 (SCOPUS).
5. Dr. Richa R Khandelwal, Sarvesh S., Rishabhdev M., has presented a paper titled "Adaptive Traffic Signal Management Using Real-Time Vehicle Detection and Tracking", in IEEE

### Conference Publications

1. Prof. Shubham Anjankar, Abhishek Tripathi, A. Praveen Kumar, Venkat Mohan, M. Rohit Kumar, S. Tejaeswar Reddy, Abhishek Pahuja and Maruthupandi V, has presented a paper titled "Security System for Detecting Suspicious Activity Using Motion Sensors and GSM Communication", in 13th International Conference on Soft Computing for Problem Solving - SocProS 2025, Date of Conference: February 24 - 26, 2025.

2. Prof. Shubham Anjankar, Abhishek Tripathi, Bandaru Sathwika Raj A, Kavya Sree A, Rishitha A, Sweety A, M. Raja and M. K. Nagarajan, has presented a paper titled "Object Identification for Visually Impaired using IoT with Image Processing and Voice Conversion", in 13th International Conference on Soft Computing for Problem Solving - SocProS 2025, Date of Conference: February 24 - 26, 2025.

3. Dr. Richa R Khandelwal, Agrawal A., Bagga H., has presented a paper titled "Enhanced Breast Cancer Detection in Ultrasound Images using LoRA-Fine-Tuned Florence-2 Model", in Fifth International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2025), Date of Conference: 10th Jan, 2025.

4. Dr. Richa R Khandelwal, Thakre D., Panpatte M., has presented a paper titled "Non-invasive Technique for Fingerprint-Based Blood Group Identification", in Fifth International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2025), Date of Conference: 10th Jan, 2025.

5. Dr. Richa R Khandelwal, Sarvesh S., Rishabhdev M., has presented a paper titled "Adaptive Traffic Signal Management Using Real-Time Vehicle Detection and Tracking", in IEEE

International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2025), Date of Conference : 6 to 8 March, 2025.

6. Dr. Richa R Khandelwal, Parate B., Mathankar D., Prashant Dwivedy, has presented a paper titled "ML-Driven Real-Time Emotion and Stress Level Monitoring", in IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2025), Date of Conference: 6 to 8 March, 2025.
7. Dr. Richa R Khandelwal, Pratham Jaulkar, Harish Khandelwal, Krish Sharma, has presented a paper titled "Advancing Communication for the Hearing Impaired: Real-Time Sign Language Recognition and Translation", in IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2025), Date of Conference: 6 to 8 March, 2025.
8. Dr. Richa R Khandelwal, Gunjan Kela, Mokshada Daga, has presented a paper titled " Vision to Voice -An Advanced Blind assistance System", in 3rd International Conference on Disruptive Technologies (ICDT 2025), Date of Conference: 7 to 8 March, 2025.
9. Dr. Richa R Khandelwal, Anushka Thakur, Aayush Pande, Naincy Pande, Prashant Dwivedy, has presented a paper titled "Revolutionizing Classroom Attendance with Face Recognition and Attention Based Attendance", in 3rd International Conference on Disruptive Technologies (ICDT 2025), Date of Conference: 7 to 8 March, 2025.
10. Prof. Snehal V. Laddha, Chourasia, S., Bhojane, R., has presented a paper titled "Liver Segmentation from MR T1 In-Phase and Out-Phase Fused Images Using U-Net and Its Modified Variants", in Intelligent Systems. ICMIB 2024, Date of Conference : 18 Jan, 2025.

## STTP/FDP / Other Training Attended by Faculty

1. Prof Archana Tiwari has attended a FDP on "Advanced Computational Approaches for Antenna Pattern Synthesis and Intelligent Beamforming" from 3 Jan-12 Jan 2025 organized by NIT, Warangal.
2. Dr. Kanchan Dhote has attended a FDP on "IOT Integration with Embedded System" from 6 Jan-11 Jan 2025 organized by Atharva College of Engineering, Mumbai.
3. Dr. Kanchan Dhote has attended a STTP on "Next Generation Signal Processing & Analysis: Emerging Techniques and Real World Applications" from 6 Jan-10 Jan 2025 organized by G.H.Raisoni College of Engineering, Nagpur in association with Tecextra Technologies Pvt.Ltd. Nagpur.
4. Prof Poorvi K Joshi has attended a FDP on "Advanced Materials & Characterization Techniques" from 06 February - 12 February 2025 organized by YCCE, Nagpur.
5. Prof. Vikas R. Gupta has attended a FDP on "Advances in Remote Sensing Imagery Data Processing and Analysis" from 13 January, to 17 January 2025 organized by VNIT, Nagpur.
6. Dr. Richa R. Khandelwal has attended a FDP on "FDP on Innovation and Entrepreneurship" from 17th March to 21st March 2025 organized by IIM, Nagpur.

## Departmental Activities

### Parents Meet

The Parent-Teacher Meeting for B.Tech students of IV, VI, and VIII semesters in Electronics Engineering, Electronics and Computer Science, and Biomedical Engineering, as well as for II semester students of Electronics and Computer Engineering and Biomedical Electronics, was held on 15 March 2025. The meeting was

chaired by Dr. N.P. Narkhede, Head of the Electronics Engineering Department. Dr. Narkhede briefed the parents about the department's various initiatives and efforts aimed at the holistic development of students. He also highlighted the recent changes introduced with the implementation of Ramdeobaba University's academic framework. The internal assessment methods for both theory and practical subjects, along with the academic policies, were explained by the Academic Coordinator, Dr. Deepali M. Kotambkar, and Prof. Anju Gupta. The performance of the

student in the Test-I examination and attendance record was shown to the parents by the respective class teachers. Subject teachers interacted with the parents to discuss strategies for improving their ward's academic performance. Concerns raised by the parents were addressed by the Head of the Department. The parents expressed their satisfaction with the initiatives and efforts undertaken by the department and the institute. The meeting was conducted by Prof. Jitendra B. Zalke, Parent-Teacher Meet In-charge, who also proposed the vote of thanks.



**Dr. N. P. Narkhede, HOD, Electronics Engineering department addressing parents during the PTM held on 15 March 2025.**



**Class teachers of respective classes showing the performance of students to their parents during the PTM held on 15/03/2025**



**"Where tiny circuits power big ideas."**



## Department of Electronics and Communication Engineering

### Awards Received by Faculty of Department

Dr. Ankita Harkare received Patent GEM Award for product innovation displayed at the PATENT GALLERY at Advantage Vidarbha at RTMNU, Nagpur held under the mentorship of Shri Nitinji Gadkari, Union Minister of Road Transport and Highways, Govt. of India. (7-9th Feb 2025)

### Publications

1. Dr. Rohini S. Ochawar and Mrs. Apeksha Sonare presented a research paper titled, "Detection and green power estimation using high resolution remote sensing Imagery", at 4th Scientific and Technological Exchange Program (STEP 2025) in collaboration with the 6th Indian Planetary Science Conference 2025 (IPSC 2025) organized at IIT Roorkee.
2. Dr. S. B. Pokle published a research paper titled, "Solar paint 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.
3. Dr. S. B. Pokle presented a research paper titled, "Exploring Beamforming Techniques for Massive MIMO system and beam pattern analysis using "MAT LAB" in the International Conference RBUCON. Computing' 25: Future Computing Technologies for Societal development, 20-22 February 2025, Organized by RBU Nagpur in association with University of Arad, Romania.
4. Dr. Rajesh B. Raut has published a paper titled "Wideband Circularly Polarized Conformal Dielectric Resonator Antenna for High Gain Applications" in Microwave and Optical Technology Letters, Volume 67, Issue 1, pages 1-8,

published in February 2025 (SCI indexed). DOI: <https://doi.org/10.1002/mop.70120>.

5. Dr. Pallavi K. Parlewar and Nishant Madhukar Borkar has presented a paper entitled "Non Exponential Antipode Antenna with Improved Directivity" at the International Conference on Information and Communication Systems (ICICS 2025), hosted by Vidyavardhaka College of Engineering, Belagavi, Karnataka, on 4th –5th February 2025, published by Taylor and Francis and indexed in Scopus.
6. Dr. Pallavi K. Parlewar and Nishant Madhukar Borkar has presented the paper entitled "Linearly Flared Enhanced Antipodal Vivaldi Antenna Design" in 5th International Conference on Trends in Material Science and Inventive Materials (ICTMIM 2025), held during 7th – 9th April 2025, hosted by Rohini College of Engineering and Technology, Kanyakumari, Tamil Nadu, India. Published in IEEE Xplore, (Scopus indexed)
7. Dr. Mridula Korde has presented a paper titled "Development of Rapid and Reliable Technique for Milk Spoilage Detection" in the Ninth International Conference on Smart Trends in Computing and Communications (SmartCom - 2025), organized by GR Foundation, India, held from 29th to 31st January 2025. The paper is published with Springer (Scopus indexed).
8. Dr. Mridula Korde has presented a paper titled "Real Time Traffic Optimization for Urban Traffic Congestion" in the 5th International Conference on Emerging Systems and Intelligent Computing (ESIC 2025), organized by the School of Computer Engineering, Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, held on 8th – 9th February 2025.
9. Dr. Ajinkya Nilawar has published a paper titled "Quantitative Analysis of Natural Calamities for Disaster Management through Machine Learning Techniques Using Satellite Data" in Panamerican Mathematical Journal with ISSN 1064-9735, Volume 2025, Issue 2024-25 (Scopus indexed).
10. Dr. Ankita Harkare has published a paper titled "Axial Ratio and Impedance Bandwidth Enhancement of a Circularly Polarized Dielectric Resonator Antenna Using Defected Ground Structure" in Microwave and Optical Technology Letters. 2025 Feb;67(2):e70140. <https://doi.org/10.1002/mop.70140> (Sci-E)
11. Dr. Ankita Harkare has published a paper titled "Microstrip Patch Antenna Design with Improved gain using Geometric Optimization." In 2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON) 2024 Dec 9 (pp. 1-4). IEEE. (Scopus)
12. Dr. Ankita Harkare has published a paper titled, "Optimization and mathematical analysis for mosaic patch antenna for improved gain" In 2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON) 2024 Dec 9 (pp. 1-4). IEEE. (Scopus)
13. Dr. Ankita Harkare has published a paper titled "Design and Optimization of Rectangular Dielectric Resonator Antenna for C-Band Frequencies Using Machine Learning Techniques" In 2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON) 2024 Dec 9 (pp. 1-4). IEEE. (Scopus)
14. Dr. Ankita Harkare has been awarded Design Patent on "OVERFLOW WATER DETECTION DEVICE (440360-001)" on 06/02/2025.
15. Dr. Ankita Harkare has been awarded Design Patent on "SLOTTED MICROSTRIP PATCH ANTENNA (440363-001)" on 06/02/2025
16. Dr. Ankita Harkare has been awarded Design Patent on "PATCH ANTENNA WITH FRACTAL CUT (432416-001)" on 16/12/2024.

### Training Attended by Faculty

1. Dr. Rohini S. Ochawar and Mrs. Apeksha Sonare has completed GIAN course (Global Initiative of Academic Networks) on "Advances in Remote Sensing Imagery Data Processing and Analysis", organized at VNIT Nagpur during 13th 17th Jan 2025.
2. Prof. Vipul S. Lande has attended an FDP on "Research Methodology" from January to March 2025, organized by NPTEL-AICTE, IIT Madras.
3. Prof. Vipul S. Lande has attended a Webinar on "FPGA - Chiplet Architectures and Circuits for 2.5D/3D 6G Intelligent Radios" on 12th February 2025, organized by IEEE-IISc VLSI Chapter.
4. Prof. Vipul S. Lande has attended an FDP on "VLSI System Design using Open Source Tools" from 10th – 21st February 2025, organized by Electronics and ICT Academies, MeitY, Government of India.
5. Prof. Vipul S. Lande has attended an FDP on "Effective Writing" from January to March 2025, organized by NPTEL-AICTE, IIT Madras.
6. Dr. P. R. Selokar has attended FDP on "IoT Applications with Sensors, Embedded Systems and Data Analytics" organized by IIT Roorkee in association with E&ICT Academies MeitY, Govt of India during 17 - 28 February, 2025.
7. Dr. Pradip Selokar has attended an FDP on "VLSI System Design using Open Source Tools" from 10th – 21st February 2025, organized by Electronics and ICT Academies, MeitY, Government of India.
8. Prof. Nishant Madhukar Borkar has attended a talk on

“SRAM-based In-Memory Computing Hardware: Analog vs Digital and Macros to Microprocessors” by Prof. Mingoo Seok organized by IEEE-IISc VLSI Chapter on 27 January, 2025.

9. Prof. Nishant Madhukar Borkar, has participated and completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Recent Development in RF and Antenna Design for Various Applications” at Government Engineering College, Rajkot from 27 January 2025 to 1 February 2025.
10. Prof. Nishant M. Borkar has attended the IEEE CASS Distinguished Lecture on “Memory Interfaces: Past, Present and Future” by Dr. Timothy Hollis organized by IEEE-IISc VLSI Chapter on 11 April, 2025.
11. Prof. Nishant Madhukar Borkar has participated in the IEEE MTT-S Distinguished Microwave Lecture on “Modern Methods for Component Measurements using Vector Network Analyzers for 6G Test” by Joel Dunsmore, Keysight Fellow, Keysight Technologies, organized by the IEEE-IISc MTT/AP-S Student Branch Chapter.
12. Prof. Nitin Chakole, has participated and completed the GIAN (Global Initiative of Academic Networks). It is an initiative by the Ministry of Education, Government of India, Program on Silicon Integrated Photonics Circuits for Quantum Computing and Secure Communications at Visvesvaraya National Institute of Technology (VNIT), Nagpur from April 07-11, 2025.

## Departmental Activities

### Industrial Visits

On March 28th, 2025, the second-year students of the Electronics and Communication Engineering (ECE) Section A of Shri Ramdeobaba College of Engineering and Management had the privilege of visiting Sensors and Systems Industrial Solutions Pvt Ltd, located in MIDC Butibori, Nagpur.

The visit aimed to provide students with practical exposure

to the latest advancements in industrial automation and sensor technologies. The company is known for its expertise in automation solutions, sensor technologies, and system integration, offering services to various industries.

Faculty members Dr. B. A. Neole, Prof. A. P. Nilawar and V. S. Lande accompanied 39 students on this educational visit.



EC students with Faculty at Sensor and System Industrial Solutions



Introductory session by Design & Project engineer



Felicitation of Sensor and System Industrial Solutions staff

### b. 18th Jan 2025 – Finale Round

After rigorous evaluation of submitted reports, five exceptional teams were shortlisted for the finale. Each team was provided with a bot-making kit sponsored by IETE and given a fixed time to assemble, program, and demonstrate their Otto Bots.

- Short listing the Best: The selected teams exhibited strong technical skills, problem-solving abilities, and creative enhancements in their submitted work.
- Final Demonstration: Each team had to successfully implement and showcase at least two key functionalities, demonstrating innovation in movement control, sensor integration, and Bluetooth interaction.
- Emphasis on Innovation and Teamwork: Teams had to collaborate efficiently under a time constraint, testing their skills in debugging and optimizing their robots for smooth functioning.

### Other projects undertaken

The Institution of Electronics and Telecommunication Engineers (IETE), in collaboration with the Communique Students' Society, under the leadership of Dr Ankita Harkare, Prof. Prasheel Thakre, Pankaj Kumar (President, IETE), and Himanshu Bodhankar (President, Communique Students' Society) organised “SENTIENT CIRCUITS - A Robotic Workshop” on 11th and 18th January 2025.



A snapshot of workshop on Robotics

### a. 11th Jan 2025 – Ottobot Tutorial Session :

Participants were introduced to the fascinating world of bot-making, with a special focus on Otto Bot and Emo Bot. It was a hands-on learning experience, sparking curiosity and creativity in budding tech enthusiasts. After the session, participants were asked to prepare documentation over the topics taught in the tutorial and submit it on or before 16th Jan 2025.

Teams showcased their technical prowess by submitting detailed reports on their bot designs, applications, and innovative features. This round highlighted the depth of their knowledge and their vision for future technology.



Ottobot Tutorial Session



Demonstration of Otto Bots



Group photograph of participants

## Parents Meet

Department of Electronics and Communication Engineering organized a Parent-Teacher Meeting for the session 2024-25 on 15th March 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 fulfil overall development of the students.



A brief review of academic activities, teaching learning process and PO, PSO along with proposed Mission Vision statements were discussed. 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.



Parent – Teacher meeting photographs

## Other Activities :

1. Dr. S. B. Pokle worked as reviewer for International Journal “Automatika: Journal for Control, Measurement, Electronics, Computing and Communications” Indexed SCI, Submitted review of Paper titled, “Analytical Expressions of various Channel Capacities for C-NOMA under Full-Duplex Network on 8 April 2025.

2. Dr. S. B. Pokle worked as reviewer for AEUE- International Journal of Electronics and Communication, SCI Indexed. Submitted review of paper titled, “Predictive power allocation for real time wireless applications in NOMA systems” on April 2025.

3. The department of Electronics and Communication Engineering had organized the Co-Teaching for the 6th Semester Students for the Course Computer Networks ECT357. The Lectures were delivered by the industry Expert Mr. Shoaib Sheikh, Network Engineer, TCS Nagpur. Total 130 students benefited and gain the knowledge of Computer Networking along with hands on training on CISCO packet tracing software.



**“Communicating ideas, engineering the future.”**



## School of Engineering Sciences

### Department of Mechanical Engineering

#### Faculty Corner

##### Publications

1. Dr. Mangesh Joshi and Dr. Pranjali Deole published paper titled, "Enhancing UI/UX Design for Children's Educational Gaming Platforms: An Integrated Multicriteria Decision Making Framework" in International journal of scientific and industrial research, volume 84(2), January 2025(SCIE indexed journal)
2. Dr. Mangesh Joshi and Dr. Priya Khandekar published paper titled, "Prioritizing Barriers to Circular Economy Implementation in Toy Industry using Analytical Hierarchy Process" in International journal of scientific and industrial research, volume 84(3), February 2025(SCIE indexed journal)
3. Dr. Mangesh Joshi published paper titled, "A Multi-Criteria Decision - Making Framework for Evaluating Cost-Effective Materials in Multifunctional Crutch

4. Design" in Archives of Metallurgy and Materials, volume 70(1), March 2025(SCI indexed journal)
5. Dr. Yogesh G. Joshi published a Paper titled "Performance investigation of the automotive radiator using functionalized graphene quantum dots-based nanosuspension" published in NANO Journal, World Scientific Journal. (SCIE & Scopus Indexed) <https://doi.org/10.1142/S1793292025500456>.
6. Dr. Yogesh G. Joshi published a Paper titled "Experimental investigation of R600a as a drop-in replacement for R134a in a VCRS-based magnetized water chiller," published in Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Sage Publisher. (SCIE and Scopus Indexed) <https://doi.org/10.1177/09544089241307498>.

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

1. Dr. Ashish D. Urade attended one - week faculty Development Program on 'Advances in material processing Technology' Conducted during 20 to 24 January 2025 organised by Department Metallurgical Engineering at O.P. Jindal University Raigarh, Chhattisgarh, India
2. Dr. ALOK KUMAR JHA, Assistant Professor of Ramdeobaba University Nagpur has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on AI and Simulation in Additive Manufacturing at ADITYA ENGINEERING COLLEGE from 03/02/2025 to 08/02/2025.

3. Dr Y. M. Sonkhaskar worked as an examiner for a student project competition in the Nagpur Division held at Govt. ITI on 15th January 2025.
4. Dr. Priya Khandekar has completed eight-week FDP for the course Manufacturing Guidelines for Product Design on NPTEL-AICTE during Jan-Mar 2025.
5. Dr. Vandita Thanhara, Dr. Yogesh Joshi and Dr. Arun Kose has completed the training program in Complete Multibody Dynamics Analysis with Adams from 18-20 February organised by Hexagon.

#### Departmental Activities

##### Parents Meet, Alumni Meet and Departmental Installations or Events

1. The Department of Mechanical Engineering, Ramdeobaba University, successfully organized a Parent-Teacher Meet (PTM) on 22nd March 2025 for Second Semester B.Tech students. The event aimed to foster better communication between parents and faculty, ensuring a collaborative approach to students' academic growth and overall development.
2. Parents of 67 students have attended the PTM, where they interacted with the Dean, School of Engineering Sciences, Head of the Department, Mechanical Engineering and faculty members teaching to students of R1 R2 and R3 sections. Discussions focused on students' Attendance, academic progress (Test 1 and TA), classroom engagement, and co-curricular activities. Parents appreciated the faculty's efforts in mentoring students and provided valuable feedback regarding curriculum, assessment methods, and student support services.
3. The meeting also provided an opportunity to address parental concerns, share updates on upcoming academic initiatives, and discuss ways to enhance student learning experiences. Suggestions from parents are received and will be taken into consideration for future improvements.
4. The Department extends its gratitude to all Parents, faculty members and office staff for their efforts in making the event successful.

##### Conference, STTP and Guest Lectures Organized in the Department

- Dr. Mrs Hemlata Dubey, Counsellor, RCOEM, Nagpur delivered a guest lecture on "Self-Awareness and Conflict Resolution" on 17th January, 2025 for second year students of Mechanical Engineering.
- Mr. Rishabh Meher, Engineer Good Wood Shipping, Singapore (Alumnus ME 2020) delivered a guest lecture on "Career Opportunities in Merchant Navy" on 10th February, 2025 for second year students of Mechanical Engineering.
- 06 6-day workshop on "Industrial Automation (PLC, SCADA and HMI)" is organized by the Department of Mechanical Engineering, conducted by Prolific System Pvt. Ltd. at Ramdeobaba University, was a highly enriching and insightful experience for both students and faculty members. Participants appreciated the engaging teaching methodology, hands-on approach, and the opportunity to work with industry-grade automation systems. The event also facilitated knowledge-sharing, discussions, and problem-solving exercises, making it an interactive and dynamic learning experience. A total of 40 students have participated in the workshop. Dr. Vishal Shukla, Dr. Yogesh Joshi, Dr. Arun Kose, Dr. Gajanan Nikhade, Dr. Alok Jha, and Dr. Vandita Thanhara have coordinated the overall event.



## Department of Civil Engineering

### Guest Lectures Taken by Faculty

1. Dr. R. N. Khapre organized a guest lecture titled "3D Printing" delivered by Dr. Vishal Shukla, Head of the Department of Mechanical Engineering at RCOEM, Nagpur. The session was organized on 18th March 2025, at the Institute level for 2nd Year B.Tech Civil Engineering students, with a total of 46 participants, under the Civil Engineering Department.
2. Dr. Vaishali Rajurkar organized a guest lecture titled "Gender Sensitivity for the New Age Workforce", for Civil Engineering students, on the 8th of March 2025. Dr. Kanak Wadhwani, a certified POSH trainer from RCOEM, delivered an expert session.

### Journal Publications

3. Hariom Khungar, along with co-authors Dr. B. Kondraivendhan and Nilesh Parmar, published a research paper titled "Assessment of mechanical and microstructural properties of concrete using titanium dioxide with recycled and virgin aggregates" in the World Journal of Engineering, published by Emerald Publishing Limited, in February 2025. The journal is indexed in Scopus and has an ISSN: 1708-5284.
4. Hariom Khungar, with Dr. B. Kondraivendhan and Nilesh Parmar, also published the paper "Experimental and Analytical Investigation of Metakaolin and Quarry Dust in Concrete" in Suranaree Journal of Science and Technology in March 2025. This journal is indexed in Scopus.
5. Tripti Gupta, published a research paper titled "Machine learning based prediction of compressive strength in roller-compacted concrete: a comparative study with PDP analysis" in the Asian Journal of Civil Engineering in March 2025. The journal is Scopus-

indexed and has an Electronic ISSN: 2522-011X and Print ISSN: 1563-0854.

6. Laxmi Gangwani, published a paper titled "Economic Design of Combined Gravity and Pumped Water Transmission Main" in the SSRG International Journal of Civil Engineering in March 2025. The journal is indexed in Scopus and has an ISSN: 2348-8352, Volume 12, Issue 3, pages 176–184.
7. Dr. R. N. Khapre, along with co-authors Siddharth Agrawal, Chetan Pawar, and Anuj Shendre, published a research paper titled "Performance of GFRP Bars in Flexural Members: A Comparative Study with Metal Bars Using FEA and Experimental Study" in the Journal of Polymer & Composites on 27th January 2025. The paper appears in Volume 13, Issue 2, on pages 262–267. The journal has an ISSN: 2321-2810(ESCI).

### Conference Publications

1. Mrs. Varsha R. Harne, along with Dr. Anurag Sharma, presented a research paper titled "Comparative Study of External Bars Used for Strengthening of RC Beam-Column Joint by Using Finite Element Analysis" at the ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025). The conference was held from 7th to 9th February 2025 at Hotel Novotel, Chandigarh, India, and was organized by ASCE India Section Northern Region (ASCE IS NR) in collaboration with Punjab Engineering College, Chandigarh. The paper was published by ASCE.
2. Samyak Moon, along with Prof. Varsha Harne, Mrunmayee Baitule, Zeenat Sheikh, Mohammad Saim Sheikh, and Pratik Waghmare, presented a paper titled "Bamboo as a Sustainable Building Material for Construction Industry Development: A Systematic Review of

Properties and Standards" at the 3rd International Conference on Innovations in Clean Energy Technologies (ICET 2025), held from 21st to 22nd February 2025 at the Energy Centre, Maulana Azad National Institute of Technology (MANIT), Bhopal, India. The paper was published by Springer.

3. Tripti Gupta, presented a research paper titled "Sulphuric Activated Papaya Peel as a Bio-Adsorbent for Adsorption of Methylene Blue Dye" at the ICAWTM-25, 4th International Conference on Advances in Water Treatment and Management, held on 1st and 2nd March 2025 at Pandit Deendayal Energy University (PDEU), Gandhinagar, Gujarat, India. The paper was published by Springer and is indexed in Scopus.
4. Tripti Gupta, presented a paper titled "Investigation on Adsorption Capacity of Adsorbent Derived from Maize for Dyes Removal from Aqueous Solution" at the ICAWTM-25, 4th International Conference on Advances in Water Treatment and Management, held on 1st and 2nd March 2025 at Pandit Deendayal Energy University (PDEU), Gandhinagar, Gujarat, India. The paper was published by Springer and is indexed in Scopus.
5. P. D. Hiwase, Assistant Professor, contributed a book chapter titled "Innovations in Electronic Materials: Advancing Technology for a Sustainable Future" (pages 64–77), published as part of the Advances in Science, Technology & Innovation series by Springer. This Scopus-indexed conference proceeding was released on 3–4 July 2024, with ISSN: 2522-8714 / 2522-8722 and ISBN: 978-3-031-73815-9 (Print), 978-3-031-73816-6 (eBook). The chapter was co-authored with Jaikishan Shriram Bhardhwaj.
6. Dr. Sharda Siddh, Assistant Professor, also contributed to the same publication "Innovations in Electronic Materials: Advancing Technology for a Sustainable Future", published by Springer. The chapter, also Scopus-indexed, was co-authored with Abhinav Wanwade and published on 3–4 July 2024.

7. Dr. Sharda Siddh, Assistant Professor, further contributed a book chapter to "Recent Developments in Structural Engineering, Volume 3", published by Springer in

Taylor and Francis (CRC Press). The chapter was published as an e-book on 31st March 2025 with ISBN: 9781003417512. The work was co-authored with Rajesh Gupta, Nikita Palod, and Shilpa Dongre.

3. P. P. Dahale, Assistant Professor, contributed a book chapter to the "Proceedings of the 2nd International Conference on Geotechnical Issues in Energy, Infrastructure and Disaster Management", published by Springer. The book, a conference proceeding, was published in December 2024 with ISBN: 978-981-97-1757-6, and the chapter was co-authored with S. S. Geete, K. H. Singh, and T. N. Singh.
4. In another chapter of the same volume, P. P. Dahale, Assistant Professor, also co-authored a chapter with Nikita Lode, S. S. Geete, and A. K. Verma, published by Springer in December 2024 under the ISBN: 978-981-97-1757-6 as part of the conference proceedings.

5. P. D. Hiwase, Assistant Professor, contributed a book chapter titled "Innovations in Electronic Materials: Advancing Technology for a Sustainable Future" (pages 64–77), published as part of the Advances in Science, Technology & Innovation series by Springer. This Scopus-indexed conference proceeding was released on 3–4 July 2024, with ISSN: 2522-8714 / 2522-8722 and ISBN: 978-3-031-73815-9 (Print), 978-3-031-73816-6 (eBook). The chapter was co-authored with Jaikishan Shriram Bhardhwaj.

### Book Chapter Published

1. Dr. R. N. Khapre, Associate Professor, contributed a book chapter to the publication titled "Lecture Notes in Civil Engineering, Recent Developments in Structural Engineering, Volume 3", published by Springer. The book was released as a conference proceeding on 25th March 2025 and carries the ISBN: 978-981-97-9884-1, ISSN: 2366-2557. This chapter was co-authored with Nikhil Agrawal, Anshuman Srivastava, and Manpreet Singh.
2. L. R. Gangwani, Assistant Professor, authored a book chapter in the publication titled "Computational Techniques in Environmental Engineering", published by



December 2023 as a conference proceeding. The publication has the eBook ISBN: 978-981-97-9885-8 and Print ISBN: 978-981-97-9884-1. This work was co-authored with Ritu Chouhan.

## STTP / FDP / Other Training Attended by Faculty

2. Dr. A. M. Gharad participated in an ISTE-Approved Faculty Development Program (FDP) on "Structural Audits and Non-Destructive Testing of Buildings," organized by the Department of Civil Engineering, ADCET, Ashta, at the National level, from 13th to 17th January 2025.
3. Prof. S. S. Geete participated in an ISTE-Approved Faculty Development Program (FDP) on "Structural Audits and Non-Destructive Testing of Buildings," organized by the Department of Civil Engineering, ADCET, Ashta, at the National level, from 13th to 17th January 2025.
4. Prof. H. P. Khungar participated in an ISTE-Approved Faculty Development Program (FDP) on "Structural Audits and Non-Destructive Testing of Buildings," organized by the Department of Civil Engineering, ADCET, Ashta, at the National level, from 13th to 17th January 2025.
5. Dr. Tripti Balram Gupta attended a one-week online Faculty Development Program (FDP) on "Modernization in Civil Engineering: Sustainability Approach," organized by Dr. Rajendra Gode Institute of Technology and Research, Amravati, Maharashtra, at the National level, from 4th to 8th February 2025.
6. Dr. Tripti Gupta also participated in an ISTE-Approved FDP on "Structural Audits and Non-Destructive Testing of Buildings," organized by the Department of Civil Engineering, ADCET, Ashta, at the National level, from 13th to 17th January 2025.
7. Prashant D. Hiwase presented a paper at the 2nd International Conference on

Emerging Applications of Material Science and Technology (ICEAMST 2024), organized by R.V. College, Bengaluru, held at the International level on 3rd and 4th July 2024.

8. Dr. P. D. Hiwase attended a one-week AICTE-recognized Faculty Development Program on "Innovative Material and Construction Technologies for Sustainable Construction Practices," organized by AICTE Training and Learning (ATAL) Academy and MET'S Institute of Engineering, at the National level, from 23rd to 28th December 2024.
9. Dr. P. D. Hiwase also attended a one-week AICTE-recognized FDP on "Rare Earth Based Novel Nanomaterials/Materials for Various Applications," organized by ATAL Academy and Shri Ramdeobaba College of Engineering and Management, at the National level, from 9th to 14th December 2024.
10. Dr. P. D. Hiwase completed a 3-week Coursera course titled "Comfort in Buildings," authorized by L&T EduTech and offered through Coursera, at the International level, from 17th October to 7th November 2024.
11. Dr. P. D. Hiwase completed a 4-week Coursera course titled "Formwork Systems," authorized by L&T EduTech and offered through Coursera, at the International level, from 10th October to 7th November 2024.
12. Dr. P. D. Hiwase completed a 4-week Coursera course titled "Wood Science: Beyond Building," authorized by West Virginia University and offered through Coursera, at the International level, from 11th October to 7th November 2024.
13. Dr. P. D. Hiwase completed a 5-week Coursera course titled "Everyday Excel, Part 2," authorized by the University of Colorado Boulder and offered through Coursera, at the International level, from 4th October to 7th November 2024.
14. Dr. P. D. Hiwase completed a 5-week Coursera course titled "Everyday Excel, Part 1,"

authorized by the University of Colorado Boulder and offered through Coursera, at the International level, from 4th October to 7th November 2024.

15. Dr. P. D. Hiwase attended a one-week Faculty Development Programme on "Advanced Materials & Techniques for the Repair & Strengthening of Concrete Structures" (AMTRC'24), organized by the Department of Civil Engineering, R.V.R. & J. C. College of Engineering, Guntur, Andhra Pradesh, at the National level, from 23rd to 27th September 2024.
16. Dr. P. D. Hiwase also attended a one-week Faculty Development Programme on "Communication at Workplace," organized by the Education and Educational Management Department, NITTTR Chandigarh, at the National level, from 22nd to 26th July 2024.
17. Dr. Sharda P. Siddh completed a one-week Professional Development Course on "Sustainability in Built Environment," organized by the Indian Association of Structural Engineers (IAStructE), at the International level, from 11th January to 15th February 2025.

RCOEM, Nagpur on 21st March 2025 for IV Semester of the B. Tech Civil Engineering program for practical exposure to 3D printing technology and its applications in civil engineering.

## Patents Filed / Published / Granted

1. Patent is published by Dr. A. M. Gharad, Dr. A. A. Mehta, Shuja Ahmed, Dr. Spruha Gharad on "A METHOD FOR PREPARING SUSTAINABLE BRICKS", on Date 21/02/2025 with a application No. 202521009367.

## Departmental Activities

### Parents Meet

The Parent-Teacher Meeting for B.Tech students of IV, VI, and VIII semesters in Civil Engineering Department was held on March 8, 2025 (Saturday) from 11.00 a.m. to 12 Noon through offline mode for the current session 2024-25 (Even Sem). The meeting was chaired by Head of the Department, Dr. R. N. Khapre. Dr. R. N. Khapre briefed the parents about the department's various initiatives and efforts aimed at the holistic development of students. He also highlighted the recent changes introduced with the implementation of Ramdeobaba University's academic framework. The performance of the student in the Test-I examination and attendance record was shown to the parents by the respective class teachers. Subject teachers interacted with the parents to discuss strategies for improving their ward's academic performance. Concerns raised by the parents were addressed by the Head of the Department. This meet received a good response from the parents of IV, VI and VIII Semester students. 15 Parents, 8 from IV sem and 5 from VI sem, and 2 from VIII sem attended the offline meet and interacted openly. The parents expressed their satisfaction with the initiatives and efforts undertaken by the department and the institute.

## STTP / FDP / Other Training Organized by Faculty : Industry Visits

1. Dr. S. P. Siddh has organised site visit on Construction of Railway station Platform Wing B Composite Steel building featuring multiple floors on 24th January 2025, for the I Semester M. Tech Structural Engineering students and Ph.D. Scholars
2. Dr. V. H. Harne, Dr. A. A. Mehta, Dr. S. P. Siddh have organised industry visit at "M.P. Birla Mukutban Integrated Cement Plant", located in Mukutban, Wani, District Yavatmal on 10th February 2025, for IV and VI Semesters of the B.Tech. Civil Engineering program.
3. Dr. R. N. Khapre has organised a visit at CIIIT at



## School of Humanities and Sciences

### Department of Humanities

#### Faculty Corner

#### Awards Received by Faculty of Department

1. Mrs. Renuka Anant Dhole received "Ram Shewalker Vaktritvacharya (Mentor for Oratory) Award" by Rajaram Sitaram Dikshit Vachnalaya Siabuldi, Nagpur on 2nd February, 2024 at Vaktaa Dashasahasreshu Prof. Ram Shewalkar Intercollege Oratory competition.

under the series of Makers of Indian Literature - published by Central Sahitya Akademi, New Delhi with ISBN 978-93-6183-657-2

2. Ms. Pratishruti Singh Agarwal has published a paper titled Teaching English Grammar in Indian Engineering Colleges Using Reverse Learning Methodology in Research Journal of English (RJOE), an international peer reviewed journal with ISSN 2456-2696, Volumn 10, Issue One.

3. Ms. Pratishruti Singh Agarwal presented her research paper titled 'Navigating Cultural Reflections Through Politics of Displacement: A Study of Amitav Ghosh's Circle of Reason' in '7th International Conference on Writing Pain and Trauma : Literary and Historical Perspectives organized by Manav Rachana International Institute of Research and Studies, School of Media Studies and Humanities, Department of English, organized on 30 th and 31 st January 2025.

1. Ms. Pratishruti Singh delivered a guest lecture on 'Critical Role of Communication Skills for Employability' at Prerana College of Commerce on 24 th February 2025.

2. Ms. Pratishruti Singh Agarwal delivered a guest lecture on 'CV Preparation' at Tirpude College of Social Work on 18 th March 2025.

3. Dr. Vinod Asudhani was invited to conduct a session on "Motivation" at Jaipur organized by Aga Hall Estate Industries on 11th January 2025.

4. Dr. Vinod Asudhani was invited to participate in national level "Poets Meet" at New Delhi organized by Sindhi Delhi Academy on 19th January 2025.

5. Dr. Vinod Asudhani was invited to deliver a lecture on "Importance of literature" for IRS Batch 78th at National Academy of Direct Taxes on 11 February 2025

#### Publications

1. Dr Vinod Asudhani's chapter entitled- 'Reassessing the Role of E-learning Tools in Language Acquisition: A Critical Perspective" was published in edited volume- Modern Trends in English Language and Literature Teaching, published by A.R. Publishing Co. Delhi with ISBN 978-93-88130-84-4.

2. Dr. Vinod Asudhani published a monograph on Arjan Hasid

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

1. Ms. Pratishruti Singh Agarwal underwent an FDP on 'Researching Cultural Vulnerability: Concepts, Contexts, and Challenges' organized by Department of Humanities and Social Sciences, NIT-Trichy in collaboration with UNESCO Chair in Vulnerability Studies, University of Hyderabad from 27 th Janury to 1 st February 2025.

2. Ms. Jasleen Rihan completed a course on Business Writing authorized by University of Colorado Boulder and offered through Coursera in March 2025.

3. Dr. Smita Choudhury completed the following FDPs

#### A. Arizona State University-Coursera

1. Teach English Now! Lesson Design and Assessment  
2. Teach English Now! Capstone Project 1  
3. TESOL Certificate, Part-1: Teach English Now!  
4. Teach English Now! Second Lanuage Reading, Writing, and Grammar.  
5. Teach English Now! Second Language Listening, Speaking, and Pronunciation  
6. Certificate in Teach English to Speakers of Other Languages- TESOL  
7. Teach English Now! Lesson Designing and assessment  
8. TESOL Specilization Certificate Part-2- Teach English Now!

#### B. NPTEL - Indian Feminism Concepts and Issues

C. A.C.T. Academy - 1. Data Management with Google Tools : Forms Docs and Cloud  
2. Reliance of Dr. Ambedkar's Educational Ideas in the NEP 2020

4. Research Scholar Arpit S. Gupta got a certificate from NPTEL for – 1. Effective Writing (8 week course) 2. One-Day National Workshop on Research Methodology on the theme 'Next -Gen Research: Transformative Approaches to Methodology.

#### Departmental Activities

##### Conference, STTP and Guest Lectures organized in Department.

###### I) Guest Lecture Organized by Ms. Jasleen Rihan, Course Coordinator, Creative and Content Writing Course

A guest lecture on "How to Write for Google : Basics of SEO for Content Writing" was successfully conducted on 30th March 2025 via Zoom. The session, attended by 24 students, aimed to enhance understanding of Search Engine Optimization (SEO) and its critical role in effective digital content writing. The resource person, Ms. Riya Bhorkar, an expert in SEO and content marketing, delivered

an insightful session covering SEO fundamentals, keyword strategies, and best practices for structuring content to improve online visibility. The lecture began with an overview of SEO and its relevance in the digital landscape, followed by a deep dive into how writers can leverage SEO techniques to enhance search engine rankings.

A key highlight of the session was the segment on keyword research. Ms. Bhorkar explained the types of keywords, user intent, and demonstrated tools. She also emphasized practical tips for maintaining keyword density and crafting reader-friendly content. Further, the session explored essential content creation strategies, including writing engaging headlines, maintaining readability, and structuring SEO-friendly blog posts. A live analysis of an SEO-optimized blog post helped participants understand the theoretical concepts through practical application.

Additional discussions included the impact of plagiarism on SEO, the role of readability scores, and the significance of staying updated with Google's core algorithms. The session concluded with an engaging Q&A round, where students actively participated and received tailored guidance. The lecture was well-received and provided students with actionable knowledge to enhance their digital writing skills. The event concluded with a warm vote of thanks to Ms. Riya Bhorkar for her valuable time and expertise by the faculty coordinator Ms. Jasleen Rihan.

###### II) Guest Lecture organized by Ms. Jasleen Rihan, Course Coordinator, Creative and Content Writing Course

A guest lecture on "Blog and Social Media Writing: Styles, Formats, and Tools"

was conducted on 5th April 2025 at Ramdeobaba University. The session, organized by course coordinator Ms. Jasleen Rihan was attended by 28 students, and delivered by Ms. Riya Bhorkar and focused on equipping students with the skills required for effective digital writing across blogs and social media platforms.

The session opened with a quick resolution of queries from the previous SEO lecture and transitioned into a discussion on the evolution of digital content. Ms. Bhorkar emphasized how blogging and social media have emerged as key platforms for self-expression, branding, and marketing in the digital age.

Participants were introduced to various writing styles used in blogging, including narrative, descriptive, persuasive, listicles, how-to guides, reviews, and opinion pieces.

Each style was explained with examples and supported by fun writing-based activities that encouraged creativity and practical learning. The speaker also highlighted the difference between long-form blog content and short-form social media writing, stressing the importance of a consistent brand voice. The lecture further explored effective techniques for crafting headlines, the smart use of hashtags, and storytelling methods to engage audiences. A range of digital tools was introduced for language improvement.

Ms. Bhorkar underscored the importance of aligning digital content with current trends, SEO principles, and user intent to achieve better reach and engagement. The session was interactive, informative, and provided students with actionable strategies to improve their blog and social media writing skills.



**CCW GL 2a**



**CCW GL 2b**



**CCW GL 2c**



**CCW GL 2d**

## Department of Mathematics

## Faculty Corner

## Writer's Corner

## Publications

### For Faculty

1. P. A. Saoji has published a paper titled Risk Factors Associated with Diabetic Foot Ulcers: A Multivariate Analysis in Biomedical & Biotechnology Research Journal with ISSN: 2588-9834, V o 1 10.4103/bbrj.bbrj\_367\_24, Issue Mar-25, indexed with ESCI
2. P. A. Saoji has published a paper titled Pattern of edible consumption and practice of reuse: a health concern in Journal of Family medicine and primary care with ISSN: 2249-4863, Issue Jan-25, indexed with ESCI
3. P. O. Bagde has published a paper titled Optimization and multi-functional predictive performance of advanced superhydrophobic cementitious materials for water-resistant infrastructure in Asian Journal of Civil Engg. with ISSN: 2522-011X, <https://doi.org/10.1007/s42107-025-01295-x>, Issue Mar-25, indexed with Scopus
4. A. R. Lalke has published a paper Study Of Periodic

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.

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## For Student

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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.

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## Department of Physical Education

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## Faculty Corner

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

1. Dr. R. G. Ghumde, Prof. P. Saoji, Dr. P. O. Bagde, Dr. P. Lepse, Prof. M. Paratkar, Dr. A. R. Lalke, Dr. Y. Rathod, Dr. N. Nandy, Dr. D. Golechha have attended International FDP Data Science and Optimization Techniques from 27th January to 3th February, 2025 organized by YCCE.
2. Prof. P. Saoji, Dr. P. O. Bagde have attended International F D P M a t h e m a t i c a l Application: Computational AI, Neural Networks and Vedic Mathematics from 11th March to 17th March, 2025 organized by Sri Venkateswara College of Engineering.
- Science, Nagpur.
2. Prof. Vinisha Nitnaware has participated in a three days Online Certificate Course and workshop on “Holistic Healing for Champions & Peak Performance Recovery” conducted by the Physical Education of India (PEFI) in collaboration with Institution of Physiotherapy, Healthcare and Yoga from 10th January to 12th January, 2025.
- She has also attended the “International Online conference on Monitoring, Tracking, Peaking, Tapering for Optimum Performance in

रामदेवबाबा विद्यापीठातर्फे क्रीडा उत्सव

**नागपूर :** रामदेवबाबा विद्यापीठ (आरबीयू) नागपूरच्या फिजिकल एज्युकेशन विभागाच्या स्कूल ॲफ ह्यूमनिटीज ॲड सायन्सेसच्या वर्तीने पोलिस लाइन मैदानावर आयोजित उदघोष या सातव्या वार्षिक क्रीडा फेस्टिव्हलचे उदघाट आंतरराष्ट्रीय खेळादू आणि प्रशिक्षक रितेश आनंद यांच्या हस्ते झाले. उदघाट आरबीयूचे कुलगुरु ॲ. राजेश पांडे आणि प्राचार्य ॲ. मनोज चांडक उपस्थित शारीरिक शिक्षण विभागाचे प्रमुख ॲ. अमित अनुराग यांनी प्रास्ताविक केले. आंतरविद्यापीठ स्पर्धेत विद्यापीठाचे प्रतिनिधित्व करण्याचा २१ रंगधारकांनी मशालवाहक म्हणून काम केले. क्रीडा, एनएसएस आणि एनसीसी समित्यांनी प्राध्यापकांसह, ॲथलेटिक्स स्पर्धामध्ये सहभाग घेतला. उदघोषात फुटबॉल, बास्केटबॉल, व्हॉलीबॉल, टेबल टेनिस आणि बुद्धिबळ असे सहा रोमांचक खेळ यावेळी प्राप्त विनिशा नितनवरे, प्रा. शुभम इटनकर, प्रा. आयुष जाधव आणि प्रा. यादव, विद्यार्थी क्रीडा सचिव शिवम पवार, देवश्री आंबेगावकर, विद्यार्थी सह-सचिव श्रेयस वाडेकर, अनुष्का पेठे यांच्यासह ४०० हून अधिक विद्यार्थी, प्राध्यापक आणि क्रीडाप्रेमी उपस्थित होते. प्रा. साकेत कानेटकर यांनी आभार मानले.

## RBU alumni unite to build sports complex

In a display of alumni solidarity and commitment, **Ramdeobaba University (RBU)**, in association with the **Ramdeobaba Alumni Connect Association (RACA)**, inaugurated its newly developed on-campus **sports facilities**.

The inaugural ceremony was attended by chief guest and alumnus **Ashish Srivastava**, founder-director of Pinnacle Teleservices Pvt Ltd. Dignitaries **PT Chande** (founder vice-chancellor of Kavikulagur Kalidas Sanskrit University, Ramtek), **Prof Chakradhar Tripathi** (VC of Central University, Odisha), **SP Kane** (ex-VC of Nagpur University), and **MB Chandan** (principal of RCOFM).

RACA demonstrated its **unwavering support** for the holistic development of students by contributing a generous sum of **₹25 lakh** towards



the creation of the sports facilities. The **upgraded amenities** now include a futsal court, cricket pitches, paddle tennis court and relaxation zones. During the ceremony, **Ashish Shrivastava**, alongside RACA chairman **Nilesh Panpaliya**, presented the cheque to RBU chancellor **SS Mantha**. Distinguished alumni, faculty members, and RACA representatives were present on the occasion.



***"The most important motto  
of Physical Education is  
Healthy body  
& healthy mind."***

a Planned Periodization” which was organized by Indian National Strength and Conditioning Association from 27th to 31st January 2025.

Prof. Vinisha Nitnaware has also attended the National Conference on “Advances in Sciences, Forensics, Physical Education and Sports” on 27th and 28th February, 2025 organized by the Department of Physical Education, RTMNU at Institute of Science, Nagpur.

3. Prof. Shubham Itankar has participated in a three days Online Certificate Course and workshop on “Holistic Healing for Champions & Peak Performance Recovery” conducted by the Physical Education of India (PEFI) in collaboration with Institution of Physiotherapy, Healthcare and Yoga from 10th January to 12th January, 2025.

He has also attended the “International Online conference on Monitoring,

Tracking, Peaking, Tapering for Optimum Performance in a Planned Periodization” which was organized by Indian National Strength and Conditioning Association from 27th to 31st January 2025.

He has published a research paper in January 2025 titled “Multidisciplinary Approaches in Physical Education: Enhancing Outcomes through Collaboration”. This paper is published in a UGC Care Listed Journal “The International Journal of Analytical and Experimental Modal Analysis” with ISSN No: 0886-9367.

Prof. Shubham Itankar has also attended the National Conference on “Advances in Sciences, Forensics, Physical Education and Sports” on 27th and 28th February, 2025 organized by the Department of Physical Education, RTMNU at Institute of Science, Nagpur.



**Shooting (W)**



**Table Tennis (W)**



**Chess (M)**



**Cricket (M)**

## Sports Activities

### All India University / West Zone Meet : RBU / RCOEM Students Participation :

The Students of RCOEM excelled in the Inter-Collegiate Tournament and were selected in the RTMNU's Team for the AIU Inter-University West Zone Tournament:

Championship. The Following students of RCOEM represented Nagpur University in the West Zone/All India University Tournament:

Sr No	Game	Level of Participation	Name	Branch	Year	Date	Venue
1	Shooting (W)	All India University	Mehek Harwani	ECE	II	08/01/2025 - 13/01/2025	Panjab University, Chandigarh
2	Table Tennis (W)	West Zone	VenuShree Sharma	CYB SEC	II	03/01/2025 - 06/01/2025.	Awadesh Pratap Singh University Rewa, Satna
			Adhishree Shiledar	AIML	II		
3	Chess (W)	West Zone	Maithili Khuje	ECE	II	02/01/2025 - 05/01/2025	SAM Global University, Bhopal
			Vanshi Mittal	AIML	III		
4	Chess (M)	West Zone	Aryan Deogade	ECE	IV	02/01/2025 - 05/01/2025	SAM Global University, Bhopal
			Kshitij Mudliar	AIML	II		
5	Cricket (M)	West Zone	Harshit Bawane	MBA	II	09/01/2025 - 15/01/2025	Adivasi University, Kota

### 1. RTMNU Inter-Collegiate :

In a remarkable show of sportsmanship, students from RCOEM enthusiastically took part in the RTMNU's Inter-Collegiate Tournament. A detailed information can be found in the table below.

Sr No	Game	Date	Venue	No. of Participants	Rank
1	Cricket (M)	10/02/2025- 22/02/2025	DNC	12	Participation



## 2. Inter Branch Sports Cup :

The Inter Branch Sports Cup was organized by the Dept. of Physical Education at RCOEM, which took place from 3rd January to 6th February 2025. The event witnessed active participation from students, making it a memorable and successful event. The students competed fiercely showcasing their talents and skills. The event not only promoted physical fitness and well-being but also emphasized the importance of sportsmanship, teamwork and healthy competition.

Sr. No.	Event	Date	No of Participants	I Position	II Position
1	Basketball (M)	03-08 Jan 2025	96	EE	MECH
1	Volleyball (W)	03-08 Jan 2025	49	EE	ECS- BIO MED
2	Cricket (M)	06-11 Jan 2025	171	MBA	DS
3	Athletics (M)	17-18 Jan 2025	161	EE	CSE
4	Athletics (W)	17-18 Jan 2025	130	ECS- BIO MED	CIVIL
5	Football (M)	03-08 Jan 2025	110	MCA	MBA
6	Tag-Rugby (M)	03-06 Feb 2025	103	MBA	MECH



Basketball (M)



Cricket (M)



Football (M)



Volleyball (W)

## 3. Inter-Collegiate Invitational Tournament

### Priyadarshani Udaan 25.0

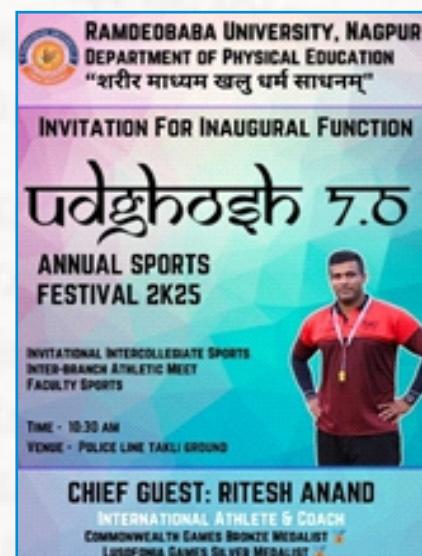
Ramdeobaba University showcased exceptional skills and sportsmanship during the Udaan 25 tournament which was held from 12th February to 15th February 2025, organized by Priyadarshani College of Engineering. The team's determination and performance were commendable throughout the event. Ramdeobaba's spirit truly shone on the field. The details are given in the table below:

Sr. No	Game	Date	No. of Participants	Rank
1	Volleyball (W)	12 <sup>th</sup> -15 <sup>th</sup> Feb 2025	08	Participation
2	Volleyball (M)	12 <sup>th</sup> -15 <sup>th</sup> Feb 2025	12	Participation
3	Football (M)	12 <sup>th</sup> -15 <sup>th</sup> Feb 2025	16	Participation
4	Basketball (W)	12 <sup>th</sup> -15 <sup>th</sup> Feb 2025	08	First
5	Basketball (M)	12 <sup>th</sup> -15 <sup>th</sup> Feb 2025	10	Participation
6	Cricket (M)	12 <sup>th</sup> -15 <sup>th</sup> Feb 2025	13	Participation
7	Chess (Mix)	12 <sup>th</sup> -15 <sup>th</sup> Feb 2025	5	Participation



## 4. UDGHOSH : RBU Annual Sports Festival

**Opening Ceremony:** The Department of Physical Education at RBU organized the seventh edition of its annual sports festival, UDGHOSH 7.0, at Police Line Takli Ground from January 18 to 28, 2025. The event was inaugurated by international athlete and coach, Mr. Ritesh Anand, a bronze medalist in the 4x100m relay at the 19th Commonwealth Games. The inauguration was graced by RBU's Vice Chancellor, Dr. Rajesh Pande, and Principal, Dr. Manoj Chandak, along with Dr. Amit Anurag, Head of the Physical Education Department, who delivered the introductory remarks. The event witnessed a spectacular opening ceremony, featuring 21 colour holders who represented the university in inter-university championships. The festival also included the Annual Athletics Meet and the Faculty Sports Meet, with over 25 faculty members actively participating in various events. The games featured six major sports: Football, Cricket, Basketball, Volleyball, Table Tennis, and Chess, and the inaugural inter-collegiate cricket match was held between DNC and Palloti College. The details of UDGHOSH winners are mentioned in the table below:





Sr No	Game /Event	Winner College Name	Runner-Up College Name	Best Player
1	Cricket (M)	DNC	VNIT	Aniket Askar (DNC)
2	Football (M)	Hislop College	Sindhu College	Aditya Channe (Hislop College)
3	Basketball (M)	DNC	RBU	Shreyash Rokde (DNC)
4	Basketball (W)	RBU	LAD	Preeti Sathwane (RBU)
5	Chess (M)	Kshitji Mudliar (RBU)	Dushyant Nakade (raisoni)	-
6	Chess (W)	Aishita Chhabda (RBU)	Maithili Khuje (RBU)	-
7	Volleyball (M)	RBU	VNIT	Brijesh Dixit (RBU)
8	Table Tennis (M)	VNIT	G.H Raisoni	-

## 5.1. Annual Sports Day - Annual Athletic Meet (M & W) :

On the 18 and 19 January, 2025 RBU hosted the Annual Athletic Meet at Police Line Takli Ground which began with the torch march by colour holders of the Ramdeobaba University. The results are as follows :

### Student's Result 2024-25

Sr No	Event	NAME	Branch	Place
1	100 m (M)	Atharva Bagde	ELECTRICAL	Gold
		Nabeel Hussain	CSE	Silver
		Himanshu Mandal	MBA	Bronze
2	100 m (W).	Muskan Sheikh	CIVIL	Gold
		Kreeshna Gahlod	MCA	Silver
		Mahi Tiwari	ELECTRICAL	Bronze
3	400 m (M)	Akshad Jain	ENCS/BIO	Gold
		Parth Borkute	DS	Silver
		Mahavir Bhatt	ENCS/BIO	Bronze
4	400 m (W)	Preeti Sathawane	ENCS/BIO	Gold
		Nikita Mundada	IT/CS	Silver
		Nidhi Pillay	ELECTRICAL	Bronze
5	1500 m(M)	Akshat Jain	ENCS/BIO	Gold
		Shubham Yadav	MBA	Silver
		Mahavir Bhatt	ENCS/BIO	Bronze
6	800 m (W)	Preeti Sathawane	ENCS/BIO	Gold
		Aditi Singh	DS	Silver
		Deepshika Singh	ENCS/BIO	Bronze
7	4 * 100 Relay (M)	Nikhilesh Chandak	ELECTRICAL	Gold
		Karan Belekar		
		Rohan Dhote		
		Atharva Bagde		
		Dnyaneshwar Gaydhane	CSE	Silver
		Noman Siddique		
		Nabeel Hussain		
		Ayush Khetan		
		Akshat Jain	ENCS/BIO	Bronze
		Sankalp Chaubey		
		Mahavir Bhatt		
		Harish Kumar		

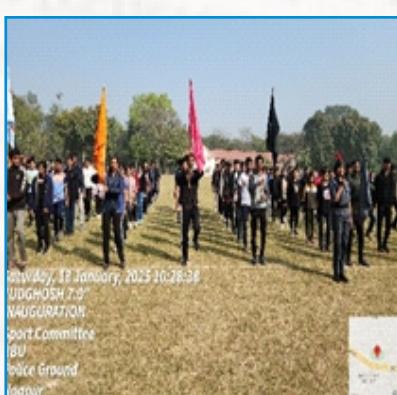
8	4 * 100 Relay (W)	Arya Dongre	ECE	Gold
		Mahak Bhargava		
		Divyani Raut		
		Rameshwari Radke		
		Gandhali Mandavkar	ENCS/BIO	Silver
		Deepshika Singh		
		Preeti Sathawane		
		Gauri Raut		
9	Shot Put (M)	Sanskriti Ingle	IT/CS	Bronze
		Sakshi Shukla		
		Nikita Mundada		
		Preshta Ramchandani		
		Shreyash Wasekar	ELECTRICAL	Gold
		Saurabh	MBA	Silver
		Yash Sharma	MCA	Bronze
		Devashree Ambegaokar	CSE	Gold
10	Shot Put (W)	Muskan Waghade	CIVIL	Silver
		Kreeshna Gehlod	MCA	Bronze
		Yogesh Meshram	MBA	Gold
11	Javelin (M)	Mohommad Noman	CSE	Silver
		Adarsh Dwivedi	MCA	Bronze
		Ayush Khetan	CSE	Gold
12	Long Jump (M)	Adarsh Dwivedi	MCA	Silver
		Atharva Bagde	ELECTRICAL	Bronze
		Aditi Singh	DS	Gold
13	Long Jump (W)	Muskaan Waghade	CIVIL	Silver
		Jagruti Pande	MBA	Bronze

## 5.2. Faculty Sports -

Like every year this year also the teaching and non-teaching members of RBU participated with great zeal and enthusiasm in RBU Annual sports day celebration. They participated in Track and Field Events and also some fun/recreational events organized by the RBU Physical Education Department.

Sr. No.	Events	Athlete	Branch	Medal
1	100M (M)	1. Alok Jha	Mechanical	Gold
		2. Shusmit Santra	AIML	Silver
		3. Yatish Paruha	Physics	Bronze
2	50 Mtrs (W).	1. Madhuri Kotewar	Maths	Gold
		2. Neelam Hooda	Physics	Silver
		3. Ankita Jaiswal	Cyber Security	Bronze
3	3.2 KM Walking (M)	1. Alok Jha	Mechanical	Gold
		2. Y.M. Sonkhaskar	Mechanical	Silver
		3. Rajiv Khaire	MBA	Bronze
4	1.6 KM Walking (W)	1. Ankita Jaiswal	Cyber Security	Gold
		2. Renuka Nafdey	Physics	Silver
		3. Ashwini Lalke	Maths	Bronze
5	Shot Put (M)	1. Gaurav Goyal	Electrical	Gold
		2. S. S. Butoliya	Chemistry	Silver
		3. Yatish Paruha	Physics	Bronze
6	Shot Put (W)	1. Madhuri Kotewar	Maths	Gold
		2. Pranjali Deole	Mechanical	Silver
		3. Charu Kumbhare	Maths	Bronze

**Closing Ceremony:** The grand finale of Ramdeobaba University's week-long Annual Sports Festival, UDGHOSH 7.0, concluded with an air of excitement, celebration, and triumph. Over 600 participants from 20 colleges came together, showcasing their talents and competitive spirit in a variety of sports. The event not only highlighted athletic prowess but also fostered a sense of camaraderie and teamwork among the students. The Valedictory Ceremony, held to mark the conclusion of this spectacular festival, was graced by the esteemed presence of our Chief Guest, Mr. Arjun Vacchar. A proud alumnus of the 2011 batch of the Industrial Branch at Ramdeobaba College.



## 6. Liberal Arts

### 6.1 Adventure Sports Camp

Ramdeobaba University organized a two-day Adventure Camping program, under the Liberal Arts Initiative. The camp aimed to develop leadership qualities, teamwork, and essential outdoor skills through a series of engaging and hands-on activities.

**Date :** 23rd and 24th February 2025

**Venue :** Cherry Farm

**No. of Student Participation :** 94 students

**Faculty Members :** Dr. Amit Anurag (HOD), Prof. Saket Kanetkar & Prof. Kanchan Yadav

The highlight of the camp included improvised raft-making, rafting, and kayaking, which tested the students' creativity, teamwork, and physical endurance. Campers also set up their own tents for an overnight stay, experiencing nature up close and building confidence in outdoor living. The two-day program offered a perfect balance of adventure and learning, leaving participants with lasting memories and vital life skills that will benefit them both personally and professionally.

## 6.2 Introduction to Defence Forces and Obstacle Training

The Department of Physical Education at Ramdeobaba University organized a two-day residential camp for first-year students under the Liberal Arts course Introduction to Defence Forces & Obstacle Training.

**Date :** 15th to 16th February 2025

**Venue :** Prahargarh on Umrer Road, Nagpur.

**No. of Student Participation :** 95 students (32 girls, 63 boys)

**Faculty Members :** Dr. Amit Anurag (HOD), Prof. Shubham Itankar & Prof. Vinisha Nitnaware

Flt. Lt. Shiwalee Deshpande delivered an inspiring motivational speech, encouraging students to pursue their dreams of joining the forces. Her words resonated with the students, motivating them to aim high and stay committed to their goals, particularly those interested in entering the armed forces.

## NSS Activities

### 1. National Youth Day

### HAPPYTHON : Walking, Zumba, Yog

The NSS Unit of Shri Ramdeobaba College of Engineering & Management, in collaboration with the Department of Physical Education, celebrated National Youth Day on 11th and 12th January 2025 to honour the birth anniversary of Swami Vivekananda Ji. The celebration began with a tribute to Swami Ji through a curated photo gallery at the basketball court, inaugurated by Dr. Rashmi Shahu and attended by dignitaries including Hon'ble VC of RBU Dr. Rajesh Pande and Principal Dr. Manoj Chandak. Over 400 students and faculty explored the gallery, which portrayed Swami Ji's life and teachings. Adding to the vibrancy of the day, NSS volunteers performed a compelling street play that highlighted Swami Ji's values of discipline, self-reliance, and service.

On the second day, the spirit of youth and wellness continued with HAPPYTHON, a fitness-focused event organized by the NSS Unit, Sports Committee, and Department of Physical Education. Over 240 students participated in a 5km Walkathon, followed by energetic Zumba and calming Yoga sessions led by experts. The event emphasized the importance of physical and mental well-being, unity, and community engagement. A prize distribution ceremony recognized the top performers, celebrating their enthusiasm and commitment. Overall, the two-day celebration successfully reflected Swami Vivekananda Ji's ideals by combining inspiration, education, fitness, and community spirit, leaving a positive and lasting impact on all participants.

### Road Safety Awareness

**Program :** Additionally, a traffic safety quiz conducted by the JANAKROSH team engaged students and promoted awareness, with winners receiving helmets as prizes, reinforcing the message of responsibility.





## 2. Republic Day

January 26th, celebrated as Republic Day, serves as a reminder of the nation's dedication to democratic governance, promoting unity, and honoring the diversity of its people. The day is marked with patriotic enthusiasm, highlighting the country's strength in diversity. Recognizing what we gained and lost so far, Ramdeobaba University commemorated the 76th Republic Day, emphasizing on the theme, "Swarnim Bharat – Virasat aur Vikaas". The celebrations commenced at 09.30 am with a flag hoisting ceremony by the hands of honorable chief guest Shri. Shyam Sunder Rathi ji (Chairman of Steering Committee, RBU) in the presence of Shri. Kailashchand Agrawal (Secretary), executive members – Shri. Bhagwandas Daga, Shri. Dinesh Agrawal, Shri. Rajesh Sanghani, along with Dr. R.S. Pande (Vice-Chancellor, RBU), Dr. Manoj Chandak (Principal, RCOEM), Deans, HODs and other dignitaries. NSS volunteers - Ms. Suvidhi Sancheti and Mr. Prashill Bhattad were the anchors during the event.



Chief Guest  
Shri. Shyam Sunder Rathi ji



Everyone stood in salute as the National flag was hoisted, and the National Anthem was sung in unison. Following this, our chief guest delivered an inspiring speech that resonated deeply with the audience, leaving them filled with a sense of patriotism. The programme further proceeded with various performances by NSS Unit, Literary Club, Music Club, Dance Club and Drama Club, making the audience speechless. Furthermore, the event was concluded with a vote of thanks presented by Ms. Khushi Agrawal (Secretary, NSS Unit). Around 80 student participants of Literary Club, Music Club, Dance Club and Drama Club and the 75 NSS Volunteers made this event a grand success.



**NSS Secretary delivering  
Vote of Thanks**

## 3. PRERNA 17.0 : Annual Socio-Cultural Camp

PRERNA 17.0, a week-long socio-cultural event under the theme 'Sanskritik Sangam', celebrated the confluence of diverse cultures in India. Organized by the NSS Unit of RCOEM, the event aimed to recognize and honour the rich cultural heritage of the nation. Held from **February 22nd to February 24th and 2nd March, 2025**, PRERNA 17.0 offered a platform for engaging activities that inspired, educated, and involved participants from all walks of life. The event succeeded in creating an environment for learning, reflection, and meaningful contribution to society.

### Events Conducted in PRERNA are mentioned below:

#### 1. Inauguration :

The NSS Unit of Ramdeobaba University, Nagpur successfully inaugurated Prerna 17.0 on 22nd February, 2025 with great enthusiasm and participation. The event was graced by esteemed dignitaries and commenced with the inauguration ceremony, setting a vibrant tone for the initiative. The program was honoured to have Retired Air Vice Marshal Shri Suryakant Chafekar as the Chief Guest. Dr. S.S. Mantha (Chancellor of RBU), Dr. Manoj Chandak (Principal of RCOEM), Dr. Amit Anurag, (NSS Unit Program Officer), Dr. A. Bharti (Director of School of Humanities & Sciences). A total of 125 NSS Volunteers were present for the event.

2. PRAYAS - Solving Real-Life Social Problems
3. House of Law - Knowing Your Constitution and Law
4. Dhrishtikon - Know Your Perspective of the Country
5. Chakravyuh - Teamwork with Adventure and Social Task
6. JUNOON - Cultural Performances of Specially-Abled Children On **February 24th**, JUNOON provided an emotional and inspiring showcase of performances by specially-abled children. Their extraordinary talent, passion, and resilience left a lasting impact on the audience. This heart-warming event served to redefine the concept of ability, highlighting the potential within every individual regardless of challenges faced. The event was supported by 50 NSS volunteers
7. NGO Fair - Connect with Social Cause Organizations
8. Free Health Check-up and Blood Donation Camp

In collaboration with the Red Ribbon Club (RRC), PRERNA 17.0 hosted a Free Health Check-up and Blood Donation Camp on February 24th.



## Health Check-up Camp beneficiaries

Participation	Number of Beneficiaries
Teaching Staff	70
Non-Teaching Staff	30
Students	120
<b>TOTAL</b>	<b>220</b>

Collaborating Hospitals & Services Provided:

**1. Max Hospital :**

- General Physician Consultation
- ECG Testing
- Neurology Consultation (Senior Neurologist)
- Cardiology Consultation (Senior Cardiologist)

**2. Lata Mangeshkar Hospital :**

- Blood Test
- Sugar Test
- Multiple Diagnostic Tests
- CBC Test

**3. Vision Express :**

- Eye Testing

**4. Lok Kalyan Diagnostic Centre :**

- Dental Check-up

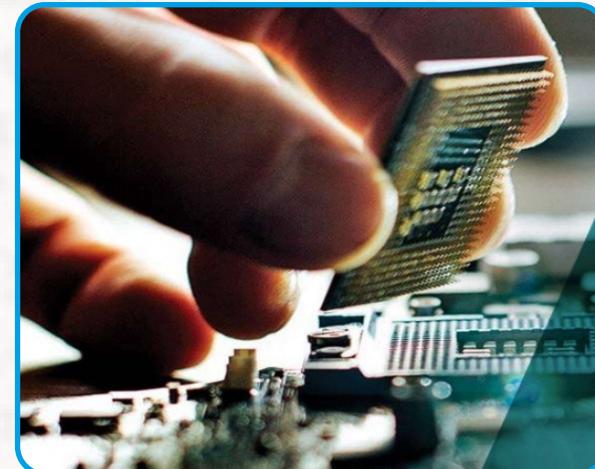
**9. Blood Donation Drive :**

Dr. Hedgewar Blood Bank conducted the blood donation camp, where enthusiastic students, faculty, and staff members actively participated in donating blood for a good cause.



Nagpur, Maharashtra, India  
53g6+gj, Bupeshnagar, Nagpur, Maharashtra 440013, India  
Lat 21.176999° Long 79.081579°  
24/02/2025 11:36 AM GMT +06:30

They appreciated the efforts of the NSS Unit in empowering underprivileged students through the SAHYOG program and motivated both the children and volunteers to continue striving for excellence and social upliftment. Finally, 15 Children Completed the Course.



**"Electronics is the language of the modern world ; communication is its voice."**



**"Training minds, empowering bodies – unlocking human potential through play."**

**10. Gram Sampark - Connecting Communities** Gram Sampark, an outreach initiative held on **March 2<sup>nd</sup>**, provided participants with an opportunity to engage with rural communities in the village of **Ghorad**.

**Activities Includes :**

**Cleanliness Drive**

**Wall Painting**

**Survey of the Village**

**Informative Act: Skit on Social Issues and Government Welfare Schemes** **Donation Drive:** Stationaries and dustbin

computer training. Conducted twice a week, the program began on 11th January 2025 with an introductory session followed by a visit to the Swami Vivekananda Art Gallery to inspire the students. Officially inaugurated on 12th January by Dr. Amit Anurag, the program enrolled 65 children through outreach efforts in underserved communities. The curriculum covered computer basics, operating systems, MS Office, and internet usage, taught through a balanced mix of theory, practical, and interactive games.

**Conclusion :**

The occasion was graced by esteemed guests - Dr. Deepshika Mehra, Shri Nandkishore Chaudhary, and Dr. Amit Anurag. All the dignitaries delivered inspiring guest speeches on the occasion, emphasizing the importance of education, resilience, and self-confidence.

## Department of Student Representative Council

### Grand Events

The first quarter of the year commenced with a series of grand events organized under the aegis of the Student Representative Council (SRC). Under the able coordination of the SRC team, notable events such as Aarambh, Aruni, Cultural Night with Akhil Sachdeva, Auto Expo, dance performances, DJ Night, and Festive Freeway were successfully conducted at RBU.

#### Glimpses of "Pratishruti 2025"

Artist Reveal



Auto Expo



Validictory Day



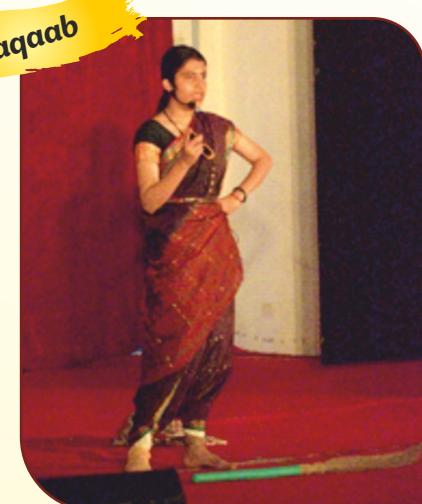
DJ Night at R'GU



Festive Freeway



Naqaab



U'25 Summit





## Temple Event's

Date	Event	Activities
01/01/2025	Baba's Duj	Bhajan Sandhya by Famous Artist Pankaj Upadhyay Flower Decoration by Local Artist
07/01/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
14/01/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
19/01/2025	Bhagwath Katha	By Mukund Krishnaji Maharaj from Vrindawan Kalash Yatra, Vedi Pujan
20/01/2025	Bhagwath Katha	Mahabharat Prasang
21/01/2025	Bhagwath Katha	Shiv-Parvati Vivah
22/01/2025	Bhagwath Katha	Vamanavtar, Krishna Avatar
23/01/2025	Bhagwath Katha	Shri Goverdhan Leela,Chapan Bhog
24/01/2025	Bhagwath Katha	Rukhmani-Krishna Vivah Mahotsav
25/01/2025	Bhagwath Katha	Shrikrishna-Sudam Charit,Pholon Ki Holi
26/01/2025	Bhagwath Katha	Havan Purnahuti
30/01/2025	Magh Duj	Bhajan Sandhya by Ramdeobaba Bhakt Kirtan Mandal
03/02/2025	Basant Panchmi	Viramdevji Janamutsav , Jamma By Dineshji Sharma Dhamangaon Wale
04/02/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
11/02/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
18/02/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
25/02/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
01/03/2025	Baba's Duj	Bhajan Sandhya by Ramdeobaba Bhakt Kirtan Mandal Flower Decoratio by Local Artist
04/03/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
11/03/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
13/03/2025	Holika Dehan	Holika Dehan at 23.30 In Muhurat
18/03/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
25/03/2025	Sunderkand	By Ramdeobaba Bhakt Kirtan Mandal
30/03/2025	Baba's Duj	Bhajan Sandhya by Ramdeobaba Bhakt Kirtan Mandal Flower Decoratio by Local Artist



📍 Ramdeobaba University, Nagpur, Ramdeobaba Tekadi, Gittikhadan, Nagpur – 440013

📞 +91 9156288990 🌐 <https://rbunagpur.in/>

### Newsletter Team

- Editor and Coordinator -

**Dr. Hetal Gaglani**

PR & Branding (I/c)  
Media Expression

- Compiler -

**Ms. Sakshi Raut**

Media Executive

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