# RCOEM

**Shri Ramdeobaba College of Engineering and Management, Nagpur**

# *Reflection*
## NEWSLETTER

**2024**

## IN THIS ISSUE

## Letter From The Editor

The first quarter of the calendar started with enthusiasm by Annual College fest, Pratishruti'24. This quarter gives training programs, new research projects, consultancies placement activities.

Departments has conducted Parent Meet, Alumni Meet, Webinars, Carrier guidance activities guest lectures etc. The faculty members participated in conferences, STTP's, FDP's and also had their research work published in international journals of repute.

Annual sports day (Udghosh 6.0) is organised by Physical education Department. Teaching and non-teaching members participated with great zeal and enthusiasm in RCOEM Annual sports day celebration.

National Youth Day is celebrated on the occasion of birth anniversary of Swami Vivekananda.

Overall, this quarter saw the college delivering and gearing up for the future.

It is well said by Swami Vivekananda, "True education is the harmonious development of the physical, the mental, and the spiritual powers. It prepares the student for the joyous and glorious responsibilities of life."

**Happy Reading !!!**

| | Career Development & Placement Cell | | | | | |
|---|---|---|---|---|---|---|
| | Placement Statistics 2024 Passing out Batch Till Date: - 08-04-2024 | | | | | |
| Sr.No. | Branch | Denominator | Unique Offers | Placement % | Unplaced | Multiple Offers |
| 1 | Civil Engineering | 61 | 35 | 57 | 26 | 37 |
| 2 | Computer Science And Engineering | 143 | 109 | 76 | 34 | 150 |
| 3 | CSE (CYBER SECURITY) | 68 | 48 | 71 | 20 | 41 |
| 4 | CSE (AIML) | 69 | 50 | 72 | 19 | 55 |
| 5 | CSE (DATA SCIENCE) | 69 | 57 | 83 | 12 | 61 |
| 6 | Electrical Engineering | 65 | 40 | 62 | 25 | 44 |
| 7 | Electronics And Communication | 132 | 98 | 74 | 34 | 111 |
| 8 | Biomedical Engineering | 31 | 19 | 61 | 12 | 41 |
| 9 | Electronics Engineering | 134 | 67 | 50 | 67 | 75 |
| 10 | Industrial Engineering | 68 | 23 | 34 | 45 | 30 |
| 11 | Information Technology | 69 | 54 | 78 | 15 | 56 |
| 12 | Mechanical Engineering | 70 | 32 | 46 | 38 | 43 |
| | UG Total | 979 | 632 | 65% | 347 | 744 |
| 13 | MCA | 120 | 84 | 70 | 36 | 90 |
| 14 | MBA & MBA-Integrated | 207 | 74 | 36 | 133 | 53 |
| 15 | M.Tech CSE | 6 | | | | |
| 16 | M.Tech. Structural Engineering | 16 | | | | |
| 17 | M. Tech Power Electronics & Power System | 3 | 1 | | | 1 |
| 18 | M.Tech Industrial Engineering | 1 | 1 | | | 1 |
| 19 | M.Tech Vlsi Design | 3 | | | | |
| 20 | M.Tech. Robotics And Automation | 6 | 1 | | | 1 |
| | PG Total | 362 | 161 | | | 146 |
| | (UG + PG )Total Placement | 1341 | 793 | | | 890 |

## Placement for 2024 Batch (Till April 2024)

- Total Offers : 890
- Highest Package - 37 LPA by LG AD Solution, 23 LPA by D.E. Shaw, 22 LPA by Nutanix, 19 LPA by Porter, 16.3 LPA by DarwinBox, 15 LPA by Cisco, 14 LPA by Philips, 14 LAP Nvidia and so on
- Selection - 149 in Accenture, 101 in IBM, 55 in Cloud4C
- Highest Stipend is Two Lakh Rs Per Month by ALPHANSO LAB
- Average Salary in CSE & IT Branches : 6.8 LPA
- Average Salary in Circuit Branches : 6 LPA
- Average Salary in Core Branches : 5.2 LPA

**Shri Ramdeobaba College of Engineering and Management, Nagpur**
**Career Development & Placement Cell (Session 2023-24)**
**Company wise No. of Offers with their Packages (till Dt. 08-04-24)**

| Sr.No. | Company Name | Offers | Package (LPA) |
|---|---|---|---|
| 1 | Juspay | Result Awaited | 27.5 |
| 2 | JTP Japan | 0 | 24 |
| 3 | D.E Shaw & Co. | 2 | 23 |
| 4 | Nutanix | 5 | 22 |
| 5 | PORTER | 7 | 19, 14 |
| 6 | Darwinbox | 3 | 16.3 |
| 7 | Kickdrum | 3 | 16 |
| 8 | CISCO | 1 | 15 |
| 9 | NVIDIA | 8 | 14 |
| 10 | Philips Healthcare | 3 | 14 |
| 11 | Sahaj | 3 | 13.5 |
| 12 | Schneider Electric | 12 | 12 |
| 13 | Amadeus | 5 | 11.77 |
| 14 | PubMatic India | 3 | 11.6 |
| 15 | Varroc | 5 | 11.5 |
| 16 | 3ds | (In Process) | 11.5 |
| 17 | Scaler Academy | 1 | 7 |
| 18 | TIAA | 3 | 10.48 |
| 19 | Aveva | (In Process) | 9.1 |
| 20 | HSBC Technology India | 3 | 9 |
| 21 | Sopra Steria | (In Process) | 8.5 |
| 22 | Taurani Holdings LLC UAE | (In Process) | 8.5 |
| 23 | Quantiphi | (In Process) | 8.5 |
| 24 | DemandFarm | 4 | 8 |
| 25 | Principal Global | 5 | 8 |
| 26 | GoComet | 2 | 8 |
| 27 | ZOHO | 2 | 8 |
| 28 | C&R Jonas | 12 | 8 |
| 29 | Emami | 5 | 7.5 |

| 30 | Fendahl | 7 | 7.5 |
|----|---------|---|-----|
| 31 | Intellipaat Software Solutions | (In Process) | 7.25 |
| 32 | Delta X | 0 | 7 |
| 33 | Innovapptive | 19 | 7 |
| 34 | Hitachi Energy | 6 | 6 |
| 35 | Mahindra and Mahindra Limited | (In Process) | 4 to 6.9 |
| 36 | Metlok Industries | 2 | 6.5 |
| 37 | Adani Group | (In Process) | 6.5 |
| 38 | Jaro Education | (In Process) | 6.30, 4.98 |
| 39 | CEAT | 4 | 6 |
| 40 | Softlink | 6 | 6 |
| 41 | Hexaware | 8 | 6 |
| 42 | Larsen & Toubro Limited | (In Process) | 6 |
| 43 | Beacon Healthcare | (In Process) | 6 |
| 44 | Yoptima | 2 | 6 |
| 45 | ArcelorMittal Nippon Steel India | 6 | 6 |
| 46 | Grindwell Norton Limited | (In Process) | 5.7 - 6 |
| 47 | Talent Worx | (In Process) | 6 |
| 48 | Acmegrade | 41 | 6 |
| 49 | L&T | (In Process) | 6 |
| 50 | VConstruct | 8 | 5.75 |
| 51 | Siemens | 6 | 5.5 |
| 52 | Grappus | (In Process) | 5.5 |
| 53 | Tech Mahindra | 13 | 5.5 |
| 54 | Cloud4c | 55 | 5.5 |
| 55 | TATA ADVANCED SYSTEMS LIMITED (TASL) | 2 | 5 |
| 56 | Blue Star Limited | 2 | 5 |
| 57 | Persistent | 13 | 5 |
| 58 | AFCONS | 2 | 5 |
| 59 | Asian Heart Institute (Biomedical) | (In Process) | 5 |
| 60 | My Captain | 24 | 5 |
| 61 | Auxilo | (In Process) | 5 |
| 62 | Solar Group (Internship) | 2 | 5 |

| 63 | Visa Steel | (In Process) | 5 |
|---|---|---|---|
| 64 | Tata Consulting Engineers | (In Process) | 5 |
| 65 | QSpiders | (In Process) | 4.8 |
| 66 | UNO MINDA LIMITED | 1 | 4.8 |
| 67 | Tata Technologies Pvt Ltd | (In Process) | 4.5 |
| 68 | CYIENT Ltd. | (In Process) | 4.5 |
| 69 | Accenture | 140 | 4.5 |
| 70 | IBM | 101 | 4.5 |
| 71 | Genpact | 2 | 4.5 |
| 72 | Simple CRM | 12 | 4.5 |
| 73 | Bristlecone | 7 | 4.25 |
| 74 | Shapoorji Pallonji | 4 | 4.25 |
| 75 | LTTS | 12 | 4 |
| 76 | EDS Techologies | (In Process) | 4 |
| 77 | Ensis Limited | (In Process) | 4 |
| 78 | Calderys | 3 | 4 |
| 79 | Crave InfoTech | (In Process) | 4 |
| 80 | Expicient | (In Process) | 4 |
| 81 | Cientra | (In Process) | 4 |
| 82 | Bitwise | (In Process) | 4 |
| 83 | Maxop Engineering Co. Pvt. Ltd. | (In Process) | 4 |
| 84 | HotelKey India Pvt Ltd | (In Process) | 4 |
| 85 | Ascendion Engineering Private Limited | (In Process) | 4 |
| 86 | Techwalnut | 18 | 3.6 |
| 87 | TalentServe | 70 | 3.5 & 5.5 |
| 88 | Tosoh India (Biomedical) | (In Process) | 3.5 |
| 89 | Production Modeling India (Internship) | 1 | |
| 90 | Chegg India | (In Process) | |
| 91 | NTT India | (In Process) | 3.5 |
| 92 | Horiba | 7 | 3.5 |
| 93 | TCS (Internship) | 6 | |
| 94 | Neilsoft | (In Process) | 3 |
| 95 | Safalya Infra Projects Pvt Ltd  (SIPPL) | (In Process) | 3 |
| 96 | Endress + Hauser Flowtec India | 1 | |
| 97 | Harrier Information Systems (Internship) | 1 | |
| 98 | Precision Metal Products | 1 | |
| 99 | Micropro Software Solutions Limited! | (In Process) | 3 |

# RCOEM-TATA-CIIIT
## (Center for Invention Innovation Incubation & Training)

## [A] Training Programs :

1] One day workshop on "Internet of Things (IoT) and Machine Learning" was conducted from 12th to 16th January 2024 for students of Shri Ramdeobaba college Engineering and Management, Nagpur from 10.30 am –5.30 pm, held at RCOEM-TATA-CIIIT organized by Progressia. A total 264 students participated and it was coordinated by Mr. Vinay Dhawad, Mr. Sanskar Zanwar and Team.
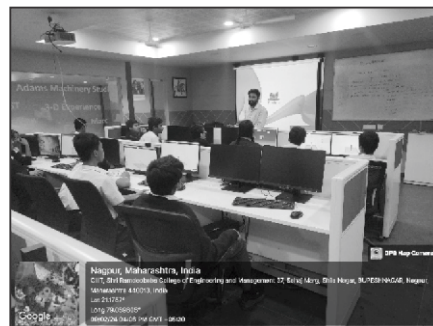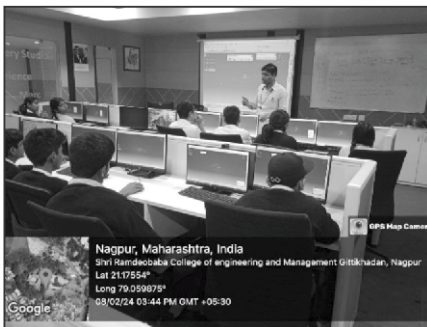


2] One day training program on "Solid Modeling 3D Printing & Scanning and Internet of Things (IoT)" was conducted on 1st & 2nd November 2023 and 23th, 24th, 25th January 2024 for students of Bhavan's Vidya Mandir School, Ashti, Nagpur from 10.30 am to 5.30 pm, held at RCOEM-TATA-CIIIT. A total 131 students participated and it was coordinated by Dr. Alok Jha, Dr. Bhushan Bissa 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.
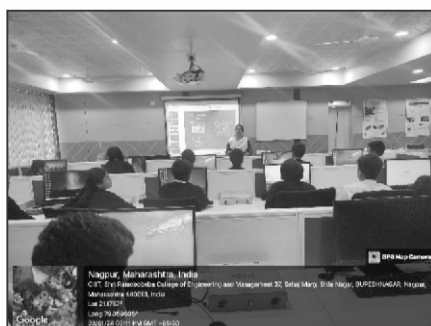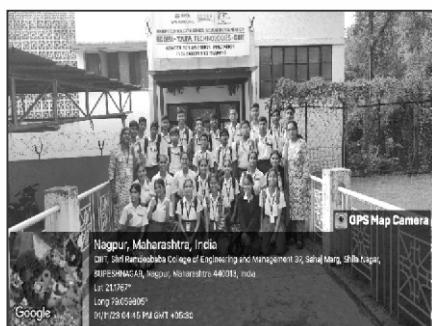
3] One day training program on "Solid Modeling 3D Printing & Scanning and Internet of Things (IoT)" was conducted from 8th & 9th February 2024 for students of Bhavan's Vidya Mandir School, Koradi, Nagpur from 10.30 am to 5.30 pm, held at RCOEM-TATA-CIIIT. A total 76 students participated and was coordinated by Dr. Alok Jha, Dr. Bhushan Bissa for the solid modeling 3D printing and Dr. Bhumika Neole, Dr. Chitrajan Rajan & Prof. Lokesh Heda and hands-on session by Mr. Shrikant Wankhede and Mr. Umendra Mukurane.



4] One day training program on "Solid Modeling 3D Printing & Scanning and Internet of Things (IoT)" was conducted from 13th to 17th February 2024 for students of Bhavan's Vidya Mandir School, Civil Lines, Nagpur from 10.30 am –5.30 pm, held by RCOEM-TATA-CIIIT. A total 179 students participated and was coordinated by Dr. Alok Jha, Dr. Bhushan Bissa for the solid modeling 3D printing and Dr. Bhumika Neole, Dr. Chitrajan Rajan, Prof. Lokesh Heda, Prof. Snehal Laddha, Prof. Shruti Nair and hands-on session by Mr. Shrikant Wankhede and Mr. Umendra Mukurane.
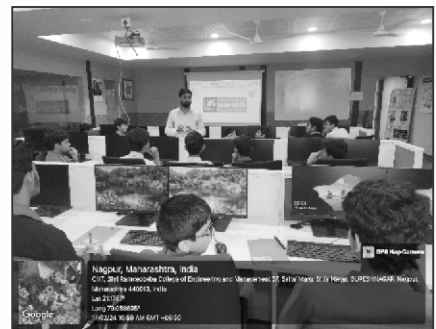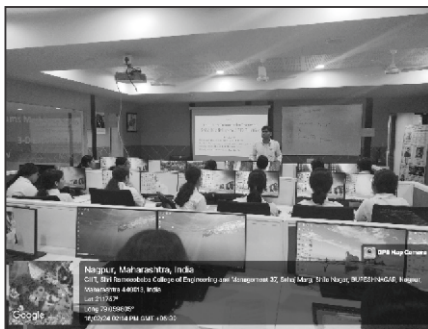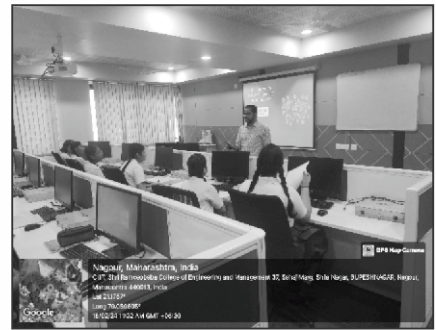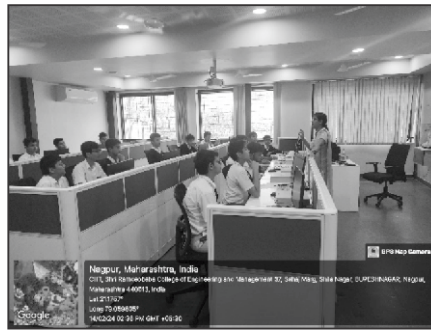
5] One-month internship program on "Internet of Things (IoT)" was conducted from September to October 2023 for students of Shri Ramdeobaba College of Engineering and Management, Nagpur from 4.30 am to 6.00 pm, at RCOEM-TATA-CIIIT. The training program was coordinated by Dr. Chithraja Rajan and Dr. Bhumika Neole, faculty member from the dept of CSE (AIML) & EC Engg, RCOEM.

6] One day Bootcamp program on "Robotics Process Automation" was conducted on 2nd March 2024 for students of Shri Ramdeobaba college Engineering and Management, Nagpur from 10.30 am to 5.30 pm, at RCOEM-TATA-CIIIT organized by Mechanical Engg. department. A total 24 UG/PG students participated and was coordinated by an expert speakers Mr. Niraj Nakhale, Director for Solution Engineering for Automation Anywhere India and Ms. Pallavi Valunj, Architect for Solution Engineering for Automation Anywhere India.







7] One-month internship program on "Internet of Things (IoT)" is started from 01st Feb. 2024 for students of Shri Ramdeobaba College of Engineering and Management, Nagpur at RCOEM-TATA-CIIIT. The program is being coordinated by Dr. Chithraja Rajan and Dr. Bhumika Neole, Asst. Professor from the dept. of CSE(AIML) and ECE respectively.
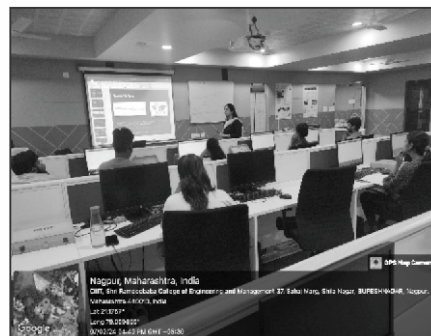
8] A Four-month internship on "Solid Modeling, 3D Printing, Reverse Engineering, Analysis using ADAMS, VMC operations" has been started from 02nd Feb. 2024 for students of Government Polytechnic, Nagpur from 11.00 am –4.30 pm, at RCOEM-TATA-CIIIT. The training program is coordinated by Dr. Y. M. Sonkhaskar and Mr. Shrikant Wankhede, Technical Assistant of RCOEM-TATA-CIIIT.



## [B] Consultancy & Project:

• Mr. Tanishq Kohli of the ECE Department created and printed certain 3D elements of the project "An Intelligent Air Pollution Monitoring & Regulating System for Industry using UAV" on January 6, 2024, under the supervision of Dr. B. A. Neole.



• SAEINDIA RCOEM Collegiate Club students used 3D printing and laser engraving to create gear boxes and gaskets for SAEINDIA e BAJA 2024, took place from January 13th to February 28th, 2024.
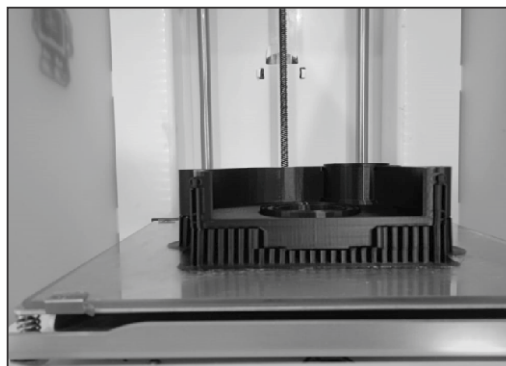
- Mr. Akshay Daware, Arish Kazi, and Team printed 3D parts for the national Letio TECHgium, organised by L & T Technology Services on January 23, 2024.

- Mr. Kartik Chapke from the Industrial Engineering Department printed 3D parts for a solar project research internship under Prof. Sachin Pund started from January 10, 2024.

- Mr. Aniket Kalamkar from the Electrical Engineering Department printed a 3D part for the "Industrial Robotic Arm" project.

## [C] Guest Lecture & lab Utilization :

- Dr. V. V. Shukla conducted a weekly Additive Manufacturing Lab to Third-year Mechanical Engineering students on Mondays from January 8th to April 2nd.
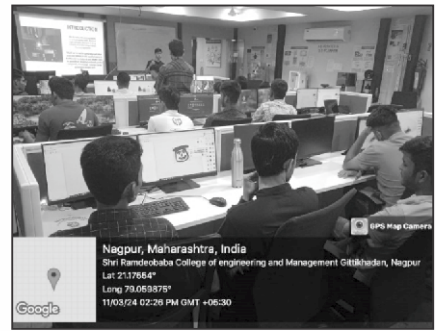


- Vedanti Karokar & Vedika Lakhanpal had used Laser cutting and Engraving machine for the project entitled "laser Cutting operation on Wooden plate" from 8th Jan. to 18th Feb.2024.

- Mr. Kartik Chapke & Tejas Bhandarkar of Industrial Engg. Dept. used the Laser Engraving & Cutting Machine for their research internship on solar project under the guidance of Prof. Sachin Pund from 10 Jan. to 28 Feb. 2024.

- Mr. Kshitij Thote of Mech. Engg. Dept & Shraddha Bhakre of Industrial Engg. Dept. using the Manufacturing Execution System (MES) for their research internship on "Optimizing Line Balancing Techniques for Bicycle Pedal Assembly to Enhance Takt Time Efficiency" under the guidance of Dr. Y. M. Sonkhaskar & Dr. P. B. Shiwalkar from 16th Jan. 2024.

- The students of SAEINDIA RCOEM Collegiate Club used VMC & Laser Engraving & Cutting Machine for cutting disc plate, Bracket Number plate of vehicle for participating in SAEINDIA e BAJA 2024 from 13th Jan -28th Feb. 2024.

- The students of Reader's Reverie Literary Club were podcasting with Mr. Vikram Labhe for coming episode of 'Reader's Reverie Unplugged'- a podcast series for shoot and record podcast at CIIIT on 14th Feb. 2024.

- Mr. Ismail Shaikh & Mr. Vedant Pachpor had used VMC Machine for project "Cryogenic Machine on Titanium Alloy" on 18th Feb. 2024.

- Ms. Shrijal Rai used Laser cutting and Engraving machine for the project "Investigation and optimization of Laser cutting parameter of polymer material" from 8th Feb.2024.

- Skill India Test India 2023-24, a skill Olympiad organized by Skill India NSDC Maharashtra Government and MSSDS was conducted at CIIIT
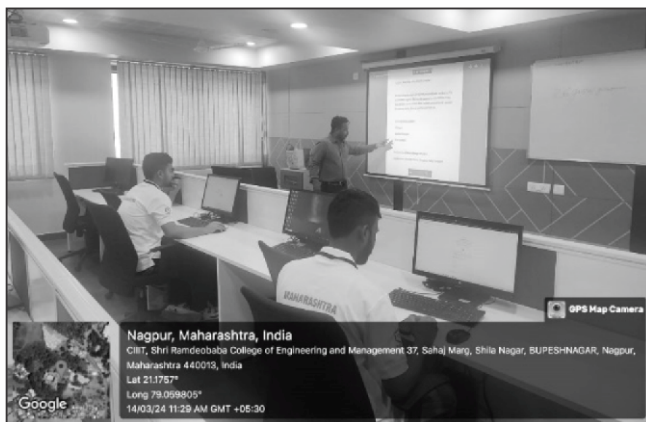


- Start-up skill Idea competition conducted by RCOEM-TBI was held at CIIIT.

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



*NCQC delegates*



*Prof. Mirza Baig, HOD of J. D. College of Engineering & Management*



*Mr. Mukul Joshi & Mr. Hemant from Siemens*



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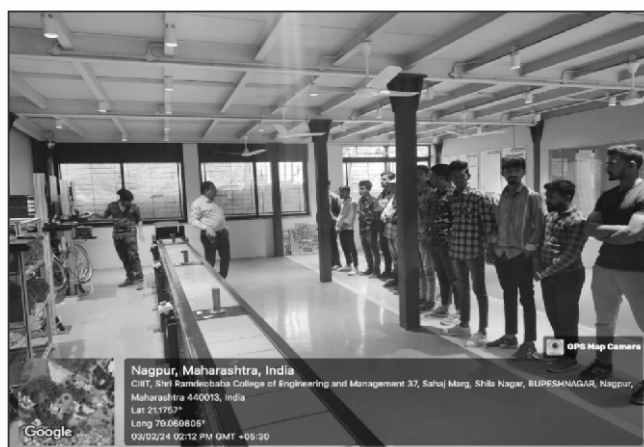


*Dr. N. Gouthamkumar, Asst. Professor, National Fire Service Nagpur*



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*Mr.Ameya Khedkar from 3D villa Service, Nagpur*



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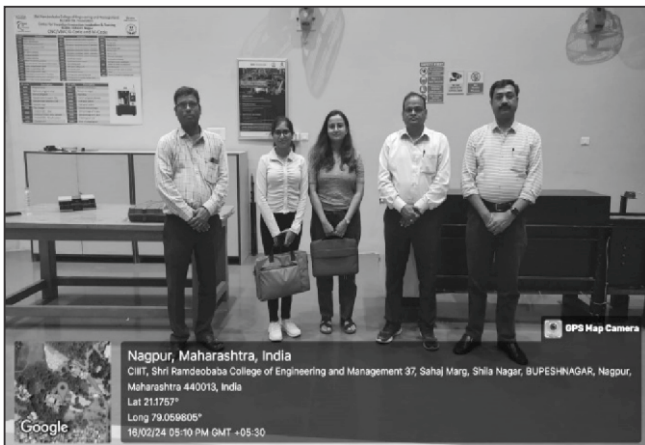


*Dr. Sarvari from Dental college Nagpur*



*Dr. S S Mantha, former Chairman AICTE*



*Dr. Vilas Sapkal, Former VC of RTMNU*



*Distinguished team members from Bajaj*

*Mr. Vikram Labhe, MD of Fivetran India*



*Dr Amol Andhare, Deputy Secretary, UGC*



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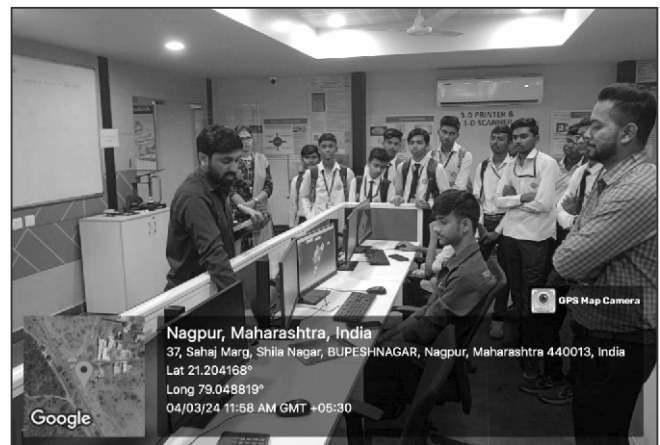


*Government Polytechnic, Nagpur*



*Faculty members from Shri Sant Gajanan Maharaj College of Engineering, Shegaon*



*Dr. Sushil Raut from Hiroshima University Japan*

*Guru Nanak Institute of technology Nagpur*



*Dr. Sunanda Bajaj & Mr. Thakre,*
*Skill Development Dept. Nagpur*

## Department of Dean Students

### Student Achievements

| Sr. No. | Name of the Student | Event | Date | Remark |
|---|---|---|---|---|
| 1. | 1. Prathamesh Dharamthok (For)<br>2. Snehal Rakas, 2nd year (Against) | Smt. Ushaben Chandrakant Thakar Womens College, Debate Competition  Nagpur. | 13th Jan 2024 | Snehal won 2nd position. |
| 2. | 1. Palak Agrawal,1st year AIML<br>2. Sana Ansari,2nd year ECE | Dr. M. K. Umathe College-Inter Collegiate Debate Competition | 17th Jan 2024 | Secured 2nd position and cash prize<br>Palak Agrawal also awarded as The Best Speaker |
| 3. | 1. Advika Metre, 3rd year Electronics<br>2. Ameya Gadhikar, 2nd year Cyber Security | National Level Debate Competition-IIT Madras, IIT Madras Campus, Chennai | 24th-30th Jan 2024 | Ameya Gadhikar bagged the title of Novice Semifinalist |
| 4. | 1. Gunjan Choube - 2nd year - Encs<br>2. Sanskruti Ingale - 2nd year - cyber<br>3. Mrunal Labhe - 2nd year - Cse<br>4. Urshita Rahate - 2nd year - Biomedical<br>5. Aarushi Deorankar - 1st year DS<br>6. Shruti Wadnerkar - 1st year -DS<br>7. Ritika Jain - 1st year - Cse<br>8. Krutika Dumre - 1st year - Biomedical<br>9. Riya Gurjar - 1st year - Mechanical<br>10. Janhavi Naidu - 1st year - Aiml<br>11. Janhavi Welekar -1st year,DS<br>12. Akshada Gomkale - 1st year, Mech" | Laasya 24 - National Intercollegiate Dance Competition, Sadabai Raisoni Women's College, Nagpur | 29th Feb 2024 | Secured 1st position in Group Dance Competition |
| 5. | 1. Sahil Deotale, DS,1st year<br>2. Rishil Pawar, DS,1st year<br>3. Adnan Dalal, ECS,1st year<br>4. Mayur Hinje, ECS,1st year | Intercollegiate Quiz Competition, SFS College, Nagpur | 7th March 2024 | Adnan Dalal and Mayur Hinje secured 4th position (no prize) |
| 6. | Vallaki Mandaogane-1st yr- | YUVARANG-Intercollegiate Youth Festival 2024 | 19th-22nd March | Won 3rd position in Classical Vocal Solo |
| 7. | 1. Arnav Tumbde-2nd yr<br>2. Sanchit Pahurkar-2nd yr<br>3. Aryan Dhawankar-3rd yr<br>4. Simran Manthapurawar-3rd yr<br>5. Abhishree Kolharkar-3rd yr<br>6. Sharvani Nandgaokar-3rd yr | YUVARANG-Intercollegiate Youth Festival 2024 | 19th-22nd March | Won 2nd position in Group Song (Indian) |

| Sr. No. | Name of the Student | Event | Date | Remark |
|---|---|---|---|---|
| 8. | Aadi Amit Kingay | YUVARANG-Intercollegiate Youth Festival 2024 | 19th-22nd March | Won 1st position in Western Vocal Solo |
| 9. | 1. Anas Khan-1st yr<br>2. Sahil Deotale-1st yr<br>3. Mayur Hinje-1sy yr | YUVARANG-Intercollegiate Youth Festival 2024 | 19th-22nd March | Won 3rd position in Quiz Competition |
| 10. | Aadya Pande-2nd y | YUVARANG-Intercollegiate Youth Festival 2024 | 19th-22nd March | Won 2nd position in Classical Dance |
| 11. | 1. Amogh Shukla-1st yr<br>2. Ankita Pande-1st yr<br>3. Reeyansh Mishra-1st yr<br>4. Venushree Sharma-1st yr<br>5. Tanisha Buradkar-1st yr<br>6. Aryan Kothari-1st yr | YUVARANG-Intercollegiate Youth Festival 2024 | 19th-22nd March | Won 1st position in Mime |
| 12. | Vallaki Mandaogane-1st yr | Music Competition, LAD COLLEGE | | Won 2nd position in Classical Vocal Solo |

## PHOTOGRAPHY CUP 2023-24

The Students' Representative Council successfully organized the Photography Cup from 20/01/2024 to 23/01/2024. All the branches of the college were eligible to complete in this competition. The Photography Cup comprised of three rounds, out of which two were photography rounds and one was videography/short film round. The themes of the photography rounds were – Photojournalism Photography (Round 1) and Abstract (Round 2) and the theme for the videography/ short film round was Self Introspection. The event was conducted online. The Judge for the Photography Cup was Mr. Pranay Agrawal.

The host for the event were Mr. Tanmay Telmasre and Mr. Nimish Chitlange and the cup was managed by other members of student Representative Council.

The event was organized under the guidance of Dr. Rashmi Shahu, Dean Students, and Prof Lokesh Heda, Teacher In-charge Photography Club.

## GLIMPSE OF THE EVENT :

# TECHNICAL CUP

The Students' Representative Council successfully organized the Photography Cup from 20/01/2024 to 23/01/2024. All the branches of the college were eligible to complete in this competition. The Photography Cup comprised of three rounds, out of which two were photography rounds and one was videography/short film round. The themes of the photography rounds were – Photojournalism Photography (Round 1) and Abstract (Round 2) and the theme for the videography/ short film round was Self Introspection. The event was conducted online. The Judge for the Photography Cup was Mr. Pranay Agrawal.

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The event was organized under the guidance of Dr. Rashmi Shahu, Dean Students, and Prof Lokesh Heda, Teacher In-charge Photography Club.

## GLIMPSE OF THE EVENT :

Date of the Event : January 23rd and 24th, 2024
Time of the Event : 2 P.M.
Mode of the Event : Offline
No. of Participants : 45

The Students' Representative Council successfully organized the Technical Cup on 23/01/2024 & 24/01/2024 respectively. All the branches of the college were eligible to compete in this competition. The Technical Cup consisted of three rounds - Aptitude Test, Technical Test, and Smart Branch Hackathon.

On Day-1, 23rd January 2024, round 1 was conducted first in which 60 minutes were given to two participants of each team to solve the Aptitude Test together. Round 2 was Technical Test where 40 minutes were given to the other two participants of the team to solving coding question on an online platform. The technical test had 2 subparts : Coding questions and Error solving questions.

On Day-2, 24th January 2024, Topics for Smart Branch Hackathon were given to the participants 3 days prior to the competition date. Here they have to prepare a presentation that contains a complete solution of Problem statement that was given to them. Participants were given 15 minutes for presentation and 5 minutes for Q & A round with judge. The judge for the afternoon was Mr. Bhavesh Bhaisare Sir, who was the former Technical Incharge of SRC 2021- 22 and was also a member of Technical Club and Robotics and Aviation Club.

## Round 1: Aptitude Test

## Round 2 : Technical Test



## Round 3: Smart Branch Hackathon



## ART CUP 2023-24

The Art Cup 2023-24 was organized by the Students' Representative Council on 24th January 2024 in the Main Auditorium, RCOEM. All the 14 branches were eligible to participate in the competition. The Art Cup had the following two rounds as follows:

**ROUND 1 : Gallery one (2 hours)**

Description: This was a group event in which a canvas was painted with acrylic colours by each group on the given topic in given time span.

**ROUND 2 : B-art-er (45 minutes)**

Description: A prompt was given to each team to create the artwork using only 4 colors of their choice.

This event was hosted by Art Cup Coordinator, Mr Aayush Vishwakarma and managed by all the members of SRC. The judge for the event was Mr. Nikhil Authankar who awarded marks based on the criteria namely creativity, adherence of the prompt/topic and submission time.

## Glimpses of the event :

## DANCE CUP 2023-24

The Dance Cup 2023-24 was organized by the Students` Representative Council on 27th January 2024 in the Main Auditorium, RCOEM. More than 300 students attended the event. All the 14 branches were eligible to participate in the competition.

The Dance Cup had the following three categories as follows :

| Round 1 : Trio | Thematic Dance | 3 min |
| Round 2 : Solo | Depict a Bollywood character | 2 min |
| Round 3 : Group | Classical and hip-hopfusion | 4:30 min |

This event was hosted by Dance Cup Coordinators, Ms Avantika Khanorkar, Mr Zeeshan Ahmed Shah and managed by all the members of SRC.

The judges for the same were Mr. Saurabh Gandhi and Mr. Ankit Kumar who awarded marks based on the criterias namely Concept, Theme, Expressions, Sync, Props Used, Costumes, Choreography, Creativity.

## Glimpses of the event :



## MUSIC CUP 2023-24

Date of the Event : January 29th, 2024        Time of the Event : 11 Am

Venue : Main Auditorium in college campus No. of Attendees : 250

The Students' Representative Council successfully organized the Music Cup on 29/01/2024. All the branches of the college were eligible to participate in this competition. The Music Cup consisted of three rounds - Duet, Group and Instrumental. The judges for the event were Mr. Sarang Awale and Mr. Aditya Sawarkar.

The Duet round was Purely Vocal round, in which TWO vocalists had to perform. Time limit for the performance was 2 minutes. There was no language barrier. 11 Branches actively participated in this round.

The Group round was vocal algorithm instruments, where at most SIX musicians (including Instrumentalists) had to perform. Time limit for the performance was 3 minutes and 1 minute for setup of the instrument. There was no language barrier. 11 Branches actively participated in this round.

The third round was a Purely Instrumental round, consisting of not more than THREE instrumentalists. Time limit for the performance was 3 minutes and 1 minute for setup of the Instruments..

The event was hosted by Anant Agarwal and Bhushan Watkar. Appropriate arrangements were done by the Students' Representative Council. Branches participated enthusiastically and there were around 250 attendees. The winners of the Music Cup will be declared in Pratishruti '24,
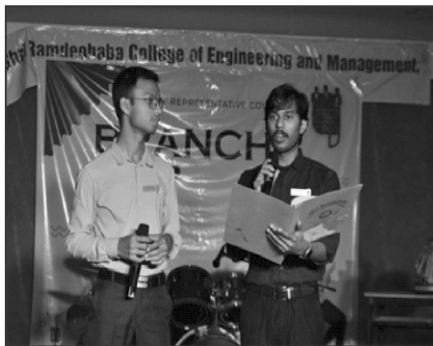
## PRATISHRUTI 24-INAUGURAL

If You Want to Grow, Focus on Your Roots: Abhijit Naik@RCOEM,

Shri Ramdeobaba College of Engineering and Management commenced Pratishruti'24 with the inaugural function on 23rd February 2024. The function was Pioneered with Saraswati Vandana and the lighting of the lamp, graced by Chief Guest, Abhijit Naik, Managing Director, Morgan Stanley and proud alumnus of RCOEM. Other dignitaries present on dais were Shri Chandrakantbhai Thakar, Vice Chairman, RCOEM, Shri Rajendra Purohit, General Secretary RCOEM, Shri. Kailashchand Agrawal, Secretary, RCOEM. Also present were Dr. R. S. Pande, Principal RCOEM, Dr. Rashmi Shahu, Dean of Students, Dr. Uday Mujumdar, Prof. In-charge, Pratishruti'24 and Ms. Anushka Khandelwal, General Secretary, SRC. Dr. Rashmi Shahu gave the opening remark giving brief description about Pratishruti motto. Principal Dr. R.S. Pande extended a warm welcome to the chief guest with a book and bouquet, followed by the presentation of Merit based Scholarship. In his address he presented the annual report and achievements of the college. Meritorious students were felicitated for excellence in Academic & Cultural activities. In his address, the Chief Guest, Mr. Abhijit Naik emphasized the significance of returning to one's roots, highlighting the enduring values of learning, performance, and community engagement. Reflecting on his own journey, he understood the importance of continuous learning, collaboration, and nurturing networks. He encouraged the audience to embrace challenges and leverage their backgrounds as sources of strength and resilience. Shri Chandrakantbhai Thakar, Vice Chairman RCOEM felicitated the chief guest with shawl and shriphal.

## PRATISHRUTI 24 - VALEDICTORY

On the auspicious occasion of the Valedictory Function held on 25th February, the entire college community of Shri Ramdeobaba College of Engineering and Management came together to celebrate the achievements and success of our students. The event commenced with the warm welcome of our esteemed Chief Guest, Mr. Ritesh Garg, Chief Engineer Maha Metro, Nagpur by our Principal, Dr. R.S. Pande. Following the welcome, Ms. Anushka Khandelwal, the General Secretary of the Student Representative Council (SRC), presented the overall Pratishruti report, highlighting the various accomplishments and endeavors undertaken by the student body throughout the academic year. Mr. Rohan Kukreja, along with Ms. Khushi Kukreja, the Secretary and Joint Secretary of the National Service Scheme (NSS) respectively, shared an insightful overview of the NSS activities and contributions. Mr. Shivam Pawar and Ms. Devashree Ambegaokar, Sports Joint Secretary presented the overall sports report, showcasing the remarkable achievements and victories of our athletes in various competitions and tournaments.

The Dean of Students, Dr. Rashmi Shahu, then introduced the Chief Guest, highlighting his notable achievements and contributions to society. Dr. R.S. Pande felicitated the Chief Guest as a token of appreciation for gracing the occasion with his presence. In his address, Mr. Ritesh Garg shared inspiring words of wisdom, emphasizing the importance of perseverance, dedication, and integrity in achieving success. He commended the students for their hard work and encouraged them to continue striving for excellence in all their future endeavours.

Following the Chief Guest's address, the Students Representative Council received Leter of Appreciation for their outstanding leadership and commitment to the student body. The announcement of the Sports Cup, won by the Electronics and Communication department. Additionally, the Pratishruti awards were presented to deserving students for their exemplary performance and dedication. In the culmination of the event, the overall Branch Cup winner was announced, with Electronics and Communication Department emerging victorious, further igniting the spirit of camaraderie and competitiveness among the branches.

# Department of Civil Engineering

## Faculty Corner

### Ph D Awarded

Full time research scholar Ms. Monika Rajendra Jain has been awarded PhD on 3 Feb 2024. Her title of thesis was "Investigation of Anchorage Zone in Post-Tensioned Concrete". Her supervisor was Dr. R. N. Khapre. She received one Research Grant of Rs. 18 Lacs and produced 1 Patent, 3 SCI indexed papers, 2 Scopus indexed papers, 1 paper in Web of Science and 5 conference papers during her research tenure.

### Guest Lectures taken by faculty

- Dr. P. P. Dahale has worked as a Session Chair in International Conference on Indian Knowledge System, Science and Spirituality for Advancing Technology on 15-16 March 2024 at TGPCET, Nagpur.

- Dr. P. P. Dahale has worked as a Keynote Speaker in International Conference on Indian Knowledge System, Science and Spirituality for Advancing Technology on 15-16 March 2024 at TGPCET, Nagpur.

- Dr. V. J. Rajurkar has delivered lecture on High Embankment, Stability of Slopes on 6th February 24 at Regional Training Center, Nagpur.

- Dr. V. J. Rajurkar has worked as a Session Chair in International Conference on Intelligent Technologies for Sustainable Energy Management and Control on 23-25 Nov. 2023 at YCCE, Nagpur.

## Publications

### Patent Publication:

- Prof. V. R. Harne and Mr. Aditya Chopade has been granted a design patent titled Triangular ended pier for high level bridge on14 March 2024. (Design Patent No. 402853-001)

- Monika Jain and Rajendra Khapre have been granted a patent titled an anchorage plate for post tensioning of a prestressed concrete on 15 February 2024. (Patent No. 511094)

- Rajendra Khapre has been granted a patent titled Optimized cross-section of profile for endodontic files on 12 January 2024. (Patent No. 598670)

### Copyrights Publication :

- Prof. V. R. Harne has been granted a copyright for Soild Mechanics Laboratory Manual on 17 January 2024. (Literary Reg. No. L-141452/2024)

### Publication in Journals

- Dr. R. N. Khapre has published a paper titled Comparison and analysis of ProTaper, ProTaper Next, and ProTaper Gold using finite element analysis in Endodontology with ISSN 0970-7212, Volume 36, Issue 1. (Scopus)

- Prof. Hariom P. Khungar has published a paper titled Characterizing the behavior of blended concrete incorporating metakaolin and quarry dust: an experimental investigation in World Journal of Engineering with ISSN 1708-5284. (Scopus)

- Prof. S. S. Geete and Dr. P. P. Dahale has published a paper titled Stability Analysis of Overburden Dump Slope of Coal/Mineral Mines: A Review in Journal of Mines Metals and Fuels with ISSN 0022-2755. (Scopus)

- Dr. T. B. Gupta has published a paper titled Treatment of grey water by Electro coagulation process coupled with sand bed filter and activated carbon adsorption process in continuous mode in AIMS Environmental Sciencewith ISSN 2372-0352. (Scopus)

## Publication in Book Chapters

- Dr. P. D. Pachpor has published a book chapter on DIFFERENT TECHNIQUES FOR CALCULATION OF BLAST PRESSURE in Jan 2024 with ISBN 978-81-19585-21-2.

- Dr. A. A. Mehta has published a book chapter on Recycled Polymer Application During Pile Boring Operations: A Review with ISBN 978-3-031-37255-1.

## Publication in Conferences

- Ms. Toshini Makde, Prof. V. R. Harne has published a paper titled Performance Evaluation of RC Moment Resisting Frame with and Without Infill Wall Based on Fragility Curve under Repeated Earthquake in 3rd International Conference on Advances in Concrete, Structural & Geotechnical Engineering (ACSGE – 2024) organized by Birla Institute of Technology & Science, Pilani, India on February 26-28, 2024

- Mr. Shivam Choudhary, Dr. R. N. Khapre has published a paper titled Design of Intze tank using Indian code (IS:3370, IS:456), American code (ACI:318 and ACI:350), and British code(BS:8007 and BS:8110) of practice in 3rd International Conference on Advances in Concrete, Structural & Geotechnical Engineering (ACSGE – 2024) organized by Birla Institute of Technology & Science, Pilani, India on February 26-28, 2024

- Ms. Monika Jain, Dr. R. N. Khapre has published a paper titled Stress Assessment in Post-Tensioned Concrete Anchorage Using a 3-Strand Anchorage Plate in 3rd International Conference on Advances inConcrete, Structural & Geotechnical Engineering (ACSGE – 2024) organized by Birla Institute of Technology & Science, Pilani, India on February 26-28, 2024

- Ms. Poonam Belekar, Dr. R. N. Khapre has published a paper titled Dynamic Wind Analysis for High Rise Building – Typical Observations in 3rd International Conference on Advances inConcrete, Structural & Geotechnical Engineering (ACSGE – 2024) organized by Birla Institute of Technology & Science, Pilani, India on February 26-28, 2024

- Dr. V. J. Rajurkar, Dr. A. Z. Chitade has published a paper titled Influence of Stabiliser and Reinforcement on Thermal Performance of Stabilized Rammed Earth: A Review in 3rd International Conference on Advances inConcrete, Structural & Geotechnical Engineering (ACSGE – 2024) organized by Birla Institute of Technology & Science, Pilani, India on February 26-28, 2024

- Dr. Tripti Gupta, Pawan Diwale and Tanmay Salodkar has published a paper titled Application Of Branch Software 3.0 For Design Of Rural Water Supply Distribution System in Proceedings of 2ndInternational Conference on WATER, ENERGY & ENVIRONMENT [WEECON 2023] December 29 and 30, 2023 organized by Institute for Science, Engineering and Technology Research, Tamil Nadu, India on December 29 and 30, 2023.

**STTP/FDP/other Training Attended by Faculty**

- Dr. P. P. Dahale and Dr. P. D. Hiwase have attended FDP on Affordable Housing Techniques and Practices during 12-16 Feb 2024 organized by NITTTR, Chandigarh

- Dr. P. P. Dahale have attended FDP on Green Solutions for Smart Infrastructure Development during 29 Jan -2 Feb 2024 organized by Geethanjali College of Engineering & Technology

- Dr. P. D. Hiwase have attended FDP on Introduction to Remote Sensing & Geographic Information System using QGIS during 19-23 Feb 2024 organized by National Water Academy Pune

- Dr. S. P. Siddh have attended FDP on Analysis, Design & Construction Aspects of Precast Structures during 13 Jan -24 Feb 2024 organized by Indian Association of Structural Engineers

- Dr. P. P. Dahale have attended NPTEL-AICTE FDP on Expansive Soil during Jan-March 2024 organized by IIT Guwahati

- Dr. R. N. Khapre have attended Training Program on Designing an Urban Residential Building Complex during 45299 organized by Bentley

- Dr Tripti Balram Gupta have attended STTP on Recent Trends and Innovation in Civil Engineering during 5-9 Feb 2024 organized by KITS, Ramtek,

## Departmental Activities

### Industrial Visits :

During These 3 months a total of 4 site visits were organized by the department.

i. Site visit was organized for IV and VI Semester B. Tech Civil Engineering Students on 19th January 2024 at Gorewada Water Treatment Plant, Nagpur. 3 faculty members accompanied the students along with the students.



*Faculty members and B.Tech. Students with Site Engineer*

ii. The site visit at the "Construction site of G+5 Commercial Complex with post-tensioned slab, Jafar Nagar, Nagpur was organized on 24th January 2024." This visit was exclusively organized for II semester M. Tech Structural Engineering students and was accompanied by Dr. S. P. Siddh. Valuable insights regarding the construction of the commercial complex with post-tensioned slab were provided by the site engineer, Mr. Lekhram Choudhary.



*Faculty member and M. Tech. Students with Site Engineer at Jafar Nagar Site*

iii. The site visit at the "Casting Yard of RTO to Wadi Flyover, T & T Infra Ltd." Khadgaon Nagpur was organized on 22nd of February 2024. This visit was organized for 13 M. Tech. students and was accompanied by Dr. S. P. Siddh. Valuable insights regarding the construction of the post-tensioned segments used in RTO to Wadi flyover were provided by the site engineer Mr. Noor Mohemmad. The aim of the visit was to supplement theoretical knowledge with real-world applications, enhancing the students' understanding and exposure to casting processes of prestressed concrete girder.



*Faculty member and M. Tech. Students with Site Engineer at T & T Infra Ltd.*

iv. Industrial visit of First year B. Tech. Civil Engineering and First year M. Tech. Structural Engineering students was organized at M/S MANAS Agro Industries & Infrastructure Ltd. Nagpur on 16 February 2024. The students visited precast panel manufacturing unit and purti sugar factory located at Bela, Nagpur. Total 52 students along with 4 faculty members visited the industry.

*B. Tech. Civil Students*



*M. Tech. Structural Students*

**Consultancy**

| S.R. | Type of Consultancy | Name of Agency | Name of Faculty | Amount of Consultancy | Month/Year |
|------|---------------------|----------------|-----------------|-----------------------|------------|
| 1. | Soil Testing Charges | Koranne Consultants Pvt. Ltd. | Dr. V. J. Rajurkar | Rs. 2,20,000 /- | January 2024 |
| 2. | Proof Checking of Labour shed of Chandur Railway | M/S Shine Enterprises | Dr. R. N. Khapre Asso. Prof. Prof. H. P. Khungar Asst. Prof. | Rs. 1,770 /- | 3 Days (19-23 January 2024) |
| 3. | Concrete Mix Design (M15 & M25 Grade) | M/s. Preetee Builder 206/5, G.P.O. Square, Palm Road, Civil Lines Saikrupa Commercial Complex, Nagpur | Prof. S. S. Geete Asst. Prof. Dr. P. P. Dahale Asst. Prof. | Rs. 70,800 /- | February - March 2024 |
| 4. | Material (Steel) Testing | M/s. Preetee Builder 206/5, G.P.O. Square, Palm Road, Civil Lines Saikrupa Commercial Complex, Nagpur-440001 | Dr. P. D. Hiwase Asst. Prof. Dr. P. P. Dahale Asst. Prof. | Rs. 30,090/- | March - April 2024 |

**Parent Teacher Meet**

**Parent Teacher Meet (IV & VI Semester) :** A Parent-Teacher Meet was organized by the Civil Engineering Department on March 9, 2024 (Saturday) from 11:00 a.m. to 12:00 noon through offline mode for the current session 2023-24 (Even Sem). The meeting was addressed by the Head of the department, Dr. R. N. Khapre, and was attended by several faculty members of the department. The event received a positive response from the parents of IV and VI Semester students, with 10 parents attending - 6 from the 4th Semester and 4 from the 6th Semester - who actively participated in discussions.
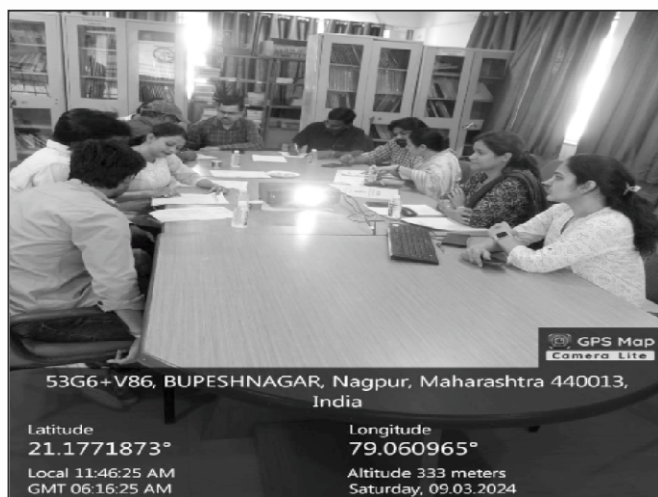
*Photo of Parent Teacher Meet (IV & VI Sem) 09.03.2024 (2023-24)*

**Parent Teacher Meet (IInd Semester) :** Parents of students of II Semester Civil Engineering visited and interacted with course teachers during PTM held on 16 March 2024. Feedback and suggestion from parents were taken.

*Photo of Parent Teacher Meet (IInd Semester) 16.03.2024 (2023-24)*

**Guest Lectures organized in the department :**

Total 2 guest lectures were organized by the department.

i. On 31st January 24, Er. Nikhil Jadhav and Mr. Jayant Singh, of MIDAS R&D Centre team Mumbai has delivered the lecture on "Introduction to MIDAS Gen software and its Application" exclusively for II sem. M. Tech. structural Engineering Students.

ii. Another lecture was organised for VI semester B.Tech. Civil on 16th February 2024. In which Mr. Aniket Ghiye and Mr. Vikram Joshi, Alumina of RCOEM interacted with students on "Opportunities for Civil Engineers in Abroad".

## Students' Corner
**Toppers List**

| Sr. No. | Second Year | |
|---|---|---|
| 1 | Aniket Ingole | SGPA – 9.96 |
| 2 | Parth Mendule | SGPA – 9.60 |
| 3 | Ayush Kamane | SGPA – 9.46 |

**Student Achievements**



*Mr. Akhilesh Lanjewar of Civil Engineering has scored 31 All India Rank in GATE 2024 examination.*

# Department of Computer Science & Engineering

## Faculty Corner

**Awards received by Faculty of department**

1. Prof. Charvi Suri bagged Gold Elite in a course "Effective Writing" from 22nd Jan 24 to 16th Feb 24 organized by NPTEL, IIT Roorkee.

## Publications

1. Dr. Vasundhara Rathod published a paper titled 'Folded ensemble deep learning-based text generation on the brain signal' in 'Multimedia Tools and Applications', ISSN: 1573-7721, (Jan-2024), unpaid SCI.

2. Prof. Wani Bisen, Prof. Hirkani Padwad and Prof. Gunjan Keswani published a paper titled 'Autoencoder-Driven insights into Credit Card Fraud: A Comprehensive Analysis' in 'International Journal of Intelligent Systems and Applications in Engineering', Vol. 12, (Jan-2024), Scopus.

3. Prof. Gunjan Keswani, Prof. Wani Bisen, Prof. Hirkani Padwad published a paper titled 'Abstractive Long Text Summarization using Large Language Models' in 'International Journal of Intelligent Systems and Applications in Engineering', Vol. 12, (Jan-2024), Scopus.

4. Prof. Hirkani Padwad, Prof. Gunjan Keswani, Prof. Wani Bisen published a paper titled 'Leveraging Contextual Factors for Word Sense Disambiguation in Hindi Language' in 'International Journal of Intelligent Systems and Applications in Engineering', Vol. 12, (Jan-2024), Scopus.

5. Prof. Gunjan Keswani published a paper titled 'An In-Depth Review of Models Used to Optimize Electron Beam Lithography Processes' in 'International Journal of Intelligent Systems and Applications in Engineering', Vol. 13, (Jan-2024), Scopus.

6. Prof. Praful Pardhi published a paper titled 'Classification of Malware from the Network Traffic Using Hybrid and Deep Learning Based Approach' in 'SN Computer Science', (Jan-2024), Scopus.

7. Prof. Hitesh Gehani published a paper titled 'Natural language based smart garbage system using AI' in 'Journal of Integrated science and Technology', Vol. 4, (Jan-2024), Scopus.

8. Dr. Khushboo Khurana published a paper titled 'A textual question answering and handwritten answer evaluation system for hindi language' in 'International Journal of Knowledge-based and Intelligent Engineering Systems', (Jan-2024), ESCI.

9. Dr. Pravin Sonsare published a paper titled 'Sign Language to Text Conversion Using Deep Learning Techniques' in '2nd International Conference on Computer, Communication and Control (IC4)', organized by 'Medi-Cap University', Indore, Nagpur (Feb2024), Scopus.

10. Prof. Sweta Jain published a paper titled 'Machine Learning Methods for the Timely Identification of Autism Spectrum Disorder in Toddlers' in '4th International Conference on Emerging Systems and Intelligent Computing', organized by 'KIIT,BBS', ( Feb2024), Scopus.

11. Prof. Sweta Jain published a paper titled 'Skin Cancer Detection and Classification using Deep Learning' in '4th International Conference on Emerging Systems and Intelligent Computing', organized by 'KIIT, BBS', (Feb2024), Scopus.

12.  Prof. Shubhangi Tirpude published a paper titled 'Relation Extraction from Electronic Health Records and generation Knowledge Graph' in '4th International Conference on Emerging Systems and Intelligent Computing', organized by 'KIIT, BBS', (Feb2024), Scopus

## STTP/FDP/other Training Attended by Faculty

1.  Dr. Shailendra Aote has attended a FDP on "Citation and Reference Management for Scholarly writing" from 26 Feb 2024 to 28 Feb organized by IQAC, NSB Bangalore in collaboration with Mendeley, Netherlands.

2.  Prof. Shweta Jain has attended a STTP on "Machine Learning and Deep Learning for Realtime IoT Applications" from 14-18 March 2024 organized by Dr B R Ambedkar National Institute of Technology, Jalandhar.

3.  Prof. Shweta Jain and Prof.Vrushali Bongirwar have attended a FDP on "Machine Learning with Python" from 18 Jan 2024 to 22 Jan 2024 organized by E & ICT Academy, IIT Kanpur.

4.  Prof.Vrushali Bongirwar and Prof.Shubhangi Tirpude have attended a STTP on "Machine Learning and Deep Learning for Realtime IoT Applications" from 14th to 18th March 2024 organized by Dr B R Ambedkar National Institute of Technology, Jalandhar.

5.  Prof. Dilipkumar A. Borikar has attended FDP on "Professional Development Programme on Data Science Mastery" from 05th -10th Feb 2024 organized VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad.

6.  Prof. Charvi Suri attended FDP "Effective Writing" from 22nd Jan 24 to 16th Feb 24 organized by NPTEL IIT Roorkee.

7.  Prof. Charvi Suri attended a FDP "Roadmap to Patent Creation" from 22nd Jan 24th to 15th March 24 organized by NPTEL IIT Kharagpur.

## Departmental Activities
### Industrial Visits

The Department of Computer Science & Engineering had organized an industry visit to Infocepts Technologies Pvt. Ltd. On 21st March 2024. A total 30 students of IV semester alongwith 5 faculty members of CSE department visited the company premises in MIHAN, Nagpur. The participants started for the visit from the college campus by bus at 10:00 AM. The group reached the Infocepts office at around 10:45 AM after completing all the permission formalities. The visit started with an introductory address by Mr. Vaibhav Nagpure from the HR Department. He gave a brief information of the company background, service domains like data management, BI, work culture, recruitment process, annual package, perks of employee, office infrastructure. He also notably added that the company has been certified "The great place to work" organization. The visit was concluded by a small vote of thanks from Mr. Vaibhav Nagpure and the feedback forms were filled by the students. The faculties were asked to provide suggestions for the industrial visit. The photograph of the participants was clicked with the host team at the office entrance.

**Consultancy or any other projects undertaken**

Department of Computer Science and Engineering have completed the technical and functional consultancy by designing and developing software for Western Coalfields Limited, Nagpur. The Computer Aptitude Test was conducted on 04-Feb-2024 and 03-March-2024 in the CSE department for the WCL employees. Dr. M. B. Chandak was the Principal Coordinator for the technical and functional consultancy.

## Departmental Events
### Parents Meet

Parent-Teacher Meet was conducted on 9th March, 2024 at the Department of Computer Science & Engineering, at 10.00 AM for IV and VI Semester CSE. The meeting was commenced by the Head of Department, Dr. R. Hablani. The Head of the Department interacted with the parents and students and discussed the student's achievements which includes prominent achievements of CSE students, results, placement activities, internships and elevated alumni positions during the meeting. He also discussed the Competitive Programming Training Initiative; a cutting-edge program designed 300-hour for 2nd Year and 72 hours for 3rd year students. He 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 and course coordinators. They were also given their opinion about a competitive training programme. The parents filled the feedback form and also suggested various ways of improvement.

### Polaris- A National Level Technical Festival



*(l-to-r) Dr. M. B. Chandak delivering the presidential address with Dr. Vasundhara Rathod, Mr. Amit Kale, Dr. Ramchand Hablani, Mr. Kush Munot on the dais*

Polaris'24, the five-day annual intercollegiate techno-cultural festival hosted by Compusys, the student society of Department of Computer Science and Engineering at Shri Ramdeobaba College of Engineering and Management, Nagpur, took place from 29th January to 3rd February, 2024. The event was inaugurated on 3rd February by Chief Guest Mr. Amit Kale, Associate Vice President at Global Logic Pvt. Ltd. in the presence of Dr. M. B. Chandak, Dean Academics, RCOEM, Dr. Ramchand Hablani, HOD CSE, Dr. Vasundhara Rathod, Incharge, Polaris'24, faculties and participants. The Chief guest shared valuable

insights with students about six essential C's: Communication, Commitment, Consistency, Collaboration, Customer Centricity, and Curiosity. The dignitaries addressed the students by motivating them to participate in technical as well as extra-curricular activities. The inaugural concluded with a prize distribution ceremony of various activities being conducted under the aegis of the Compusys-CSE student forum professional chapters namely ACM chapter, BRC chapter, Google DSC Club and GeeksForGeeks Club. The fest concluded with a high-spirited cultural evening on 3rd February 2024. Details of event as follows :

**GDSC Dexter's Laboratory**

Google Developer Student Club (GDSC), RCOEM organized an event "Dexter's Laboratory" as a part of Polaris 2024, addressing aptitude test and coding challenges on 29th January, 2024. The event aimed to engage participants in various activities, including prompt engineering, coding challenges, and aptitude tests, inspired by the famous animated series, Dexter's Laboratory. With different rounds and challenges, the event promised fun and intellectual stimulation for all involved. A total of 112 students participated in the event.



*Participants during the event*

**GFG Geek Venture Hunt**

Geek For Geeks RCOEM chapter organized " Geek Venture Hunt " as a part of Polaris 2024, on 31st January, 2024. The participants were greeted with a captivating introduction for an engaging day ahead. From the mysterious Treasure Hunt to the strategic complexities of Capture the Flag (CTF) and Blind Coding, participants were immersed in a whirlwind of challenges. Each round tested their skills and resilience, pushing them to new heights of creativity and collaboration. A total of 105 students participated in the event.



*Participants during the event*

**BRC Cryptopoly**

Cryptopoly, an innovative event that took place on January 30, 2024, marked a groundbreaking fusion of traditional board gaming and cutting-edge blockchain technology. This unique experience brought together enthusiasts, gamers, and blockchain admirers to participate in a modern rendition of the classic Monopoly game. Hosted under the banner of "Polaris" by the Blockchain Club RCOEM, the event aimed to showcase the potential of blockchain in revolutionizing the emerging technology.

The event served as a platform for participants to engage in a Monopoly game where the traditional paper money and property deeds were replaced with blockchain-based assets. The game leveraged the transparency, security, and decentralization features of blockchain technology to enhance the overall gaming experience. Players had the opportunity to navigate through a game board on which the property deeds were based on cryptocurrencies, quiz questions based on Blockchain and Solidity and fun team tasks. Each team was awarded with certain points based on their respective gameplay. In the end all the attendees were awarded with Blockchain goodies.

**Compusys Cultural Night**

The Polaris Cultural Night, organized by Compusys, was a grand event held on February 3rd, 2024, showcasing the rich cultural heritage within our Computer Science Department. The event aimed to promote cultural understanding, inclusivity, and appreciation for diversity. The venue was adorned with exquisite decorations, artifacts, and thematic backdrops, creating an immersive ambience for the performances.

The festivities commenced with a mesmerizing performance by the students of the Computer Science and Engineering Department, featuring group and solo dances, musical performances, beatboxing, and a fashion show. Their repertoire included a medley of popular songs, spanning contemporary hits to timeless classics, showcasing their versatility and musical prowess. The Bollywood-themed fashion show was a highlight of the evening. The Polaris Cultural Night was a resounding success, fostering cultural appreciation and unity within our department. It served as a testament to the diversity and talent of our students, leaving a lasting impression of splendor and sophistication. 57 students participated in the event and the cultural night was attended by 211 students.



*Performances by the students of CSE*

**Chapter Events**
**GDSC FlutterVerse**

On 17th January, 2024, the GDSC RCOEM chapter organized an engaging event titled "FlutterVerse - The Chronicles of Flutter." The event aimed to delve into the essentials of Flutter and guide participants in crafting exciting portfolios. The event commenced with Ms.Jaya Singh, the GDSC Lead, providing valuable insights about the chapter and sharing key points regarding the Google Solution Challenge 2024. This introduction created a backdrop for the main event, generating enthusiasm among the participants. During the hands-on session, participants had the opportunity to build their personalized portfolios. This practical exercise not only allowed them to apply the concepts learned but also provided valuable insights into mobile app development. The step-by-step guidance ensured that even those new to Flutter could actively participate and gain a deeper understanding of the platform. A total of 154 students were benefited by the workshop.
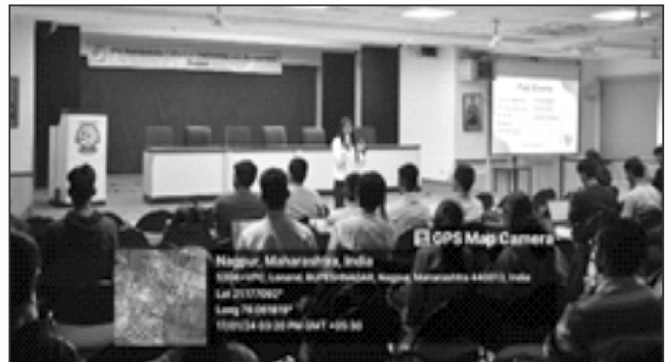


*Participants during the event- Flutter Verse (A workshop on Flutter)*

**GDSC WebWiz2.0**

Google Developers Students Club, RCOEM chapter organized WebWiz 2.0, a week-long workshop with hands-on sessions (27/03/2024 to 03/02/2024) aimed at providing participants with an immersive experience in web development. Participants were paired with mentors, ensuring personalized guidance throughout the event. To cater to varying levels of expertise, participants were categorized based on their prior knowledge. Those with previous experience were provided targeted instruction on advanced topics such as Next.js and Tailwind CSS, allowing them to deepen their understanding and skills in specific areas of web development. A total of 100 students participated in the workshop. The workshop was followed by WebCraft: The Website Making Competition at Web Wizards 2.0!
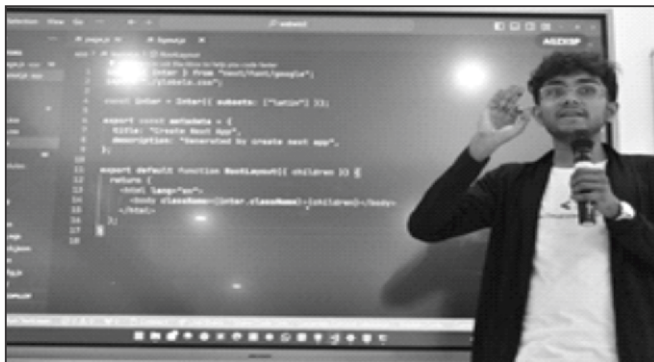


*Participants during the event- WebWiz2.0 (A workshop on Web development and website making competition)*

**Blockchain RCOEM Chapter "WEB3UTSAV" and "CONNECT VERSE"**

The Blockchain RCOEM Chapter hosted its event on 7th February 2024 at Classroom 301, Digital Tower, Nagpur, which was attended by 150+ members. The event aimed to introduce blockchain technology, its basics, and Web-3 Applications to students and explore its potential applications and the trend of centralized domains heading towards a Decentralized Domain.

The session consisted of two parts where the first part delivered the theoretical aspects of Blockchain Basics. The second part involved a hands-on session, showcasing how to use MetaMask Wallet and the Connect Verse Platform apps.



Our other guest, Shubham Tiwari working for a Web-3 based Company, took the stage where he discussed emerging blockchain-based technologies and how the centralized domain is moving towards a more connected blockchain universe, highlighting the challenges faced by centralized apps and domains.

**Conference, STTP and Guest Lectures organized in the Department.**

1. Guest Lecture on "Web Development Using Design Thinking" by Mr. Pratap Shukla, Chief Executive Officer at Take It Ideas Innovative Solutions Pvt. Ltd., Nagpur on 20-01-2024.

2. Guest Lecture on "Vedic Mathematics" by Mr. Manmath Deshpande, Head Aptitude Development Centre, Nagpur on 27-01-2024.

3. Guest Lecture on "Technical Aptitude" by Mr. Manmath Deshpande, Head, Aptitude Development Centre, Nagpur on 10-02-2024.

4. Guest Lecture on "Introduction to Microservices" by Mr. Rohit Nagbhidkar, Aegon Life Pvt Ltd on 17-02-2024.

5. Guest Lecture on "Basics of Blockchain Technology" by Mr. Athrava Paliwal, Full Stack Blockchain Developer, Persistent Systems on 02-03-2024.

## Students' Corner

**Toppers List (Combined list of two shifts) if applicable**

| Sr.No. | Second Year | Third Year | Fourth year |
|---|---|---|---|
| 1 | Ashlesha Ajay Pathak (10.00) | Godwin Shalom (10.00) | Anushka Dhalendra Kumar Shukla (10.00) |
| 2 | Ankit Rajesh Pande (10.00) | Sujal Ravishankar Agrawal (10.00) | Zoya Nizar Ali Charaniya (10.00) |
| 3 | Vaibhav Manoj Singhavi (10.00) | Sujyot Subhash Kothale(10.00) | Mihir Sanjay Chowdhury (10.00) |
| 4 | Vidyasagar Nitin Dadilwar (10.00) | Adwait Amol Puntambekar (9.95) | Sasi Venkata Kiran Gopalkrishna Rachapotu (10.00) |
| 5 | Vidyut Raja Chakrabarti (10.00) | Rashmi Moreshwar Kanharkar (9.93) | Shivam Parmanand Baghele (9.95) |

**Student Achievements**

| SN | Student Name | Semester and section | Name of Event/ Competition | Organised by | Title Won | Prize money received |
|---|---|---|---|---|---|---|
| 1 | Shakti Zanzari | 6 Sem [Section -B] | Manifest - Annual management cultural Fest | Symbiosis Institute of Business Management Nagpur | Winner (1st position) | 10000 |
| 2 | Lavanya Chawla | 4 Sem [Section -A] | | | | |
| 3 | Mit Patel | 4 Sem [Section -A] | | | | |
| 4 | Gokul Gupta | 4 Sem [Section -B] | | | | |
| 5 | Shreya Dhanuka | 4 Sem [Section -A] | AXIS VNIT | VNIT | 2nd Position | |
| 6 | Aditya Bhattad | 6 Sem [Section -A] | ETHMumbai | Devfolio | Winner (1st position) | $1,000 |

| 7 | Abhinav Tilwar | 6 Sem [Section -A] | Vibrato-Pratishruti'24 | Shri Ramdeobaba College of Engineering | 2nd Position | 1000 |
|---|---|---|---|---|---|---|
| 8 | Shakti Zanzari | 6 Sem [Section -B] | | | | |
| 9 | Mrunal Labhe | 4 Sem [Section -A] | Laasya | Sadabai Raisoni women's college | Winner (1st position) | |
| 10 | Shreyash Santosh Sahu | 6 Sem [Section -A] | HACKSPHERE 2024 | THE CODEBREAKERS, RCOEM | Winner (1st position) | 1000 |
| 11 | Ashlesha Ajay Pathak | 4 Sem [Section -C] | International hackathon - Tech Fiesta | PICT | 3rd Position | |

**Students in Higher Studies**

| No. | Year of Passing | Name of Student | Course Pursuing | Institution / University of Higher studies |
|---|---|---|---|---|
| 1 | 2023 | Chinmay Shanbhag | MS | Indiana University |
| 2 | 2023 | Nabeel | MS | Northeastern University |
| 3 | 2023 | Shridhar Ashtikar | MS | Northeastern University |
| 4 | 2023 | Tanishq Sharma | MS | Arizona State University |
| 5 | 2023 | Vaidik Murarka | MS | University of Massachusetts Dartmouth |
| 6 | 2023 | Janmejay Rathi | MS | University of Illinois – Urbana Champaign |

# Department of Computer Science & Engineering_Data Science

## Faculty Corner

**Guest Lectures taken by faculty :**

1. Dr. Urmila Shrawankar, "Visibility of Research", A Directorate of Technical Education (DTE), Mumbai Approved Training program on "General Administration and Office Automation" Research and quality Assurance Cell, Government College of Engineering, Nagpur, 31 January 2024

2. Dr. Urmila Shrawankar, "Research Funding, & Grants" ", A Directorate of Technical Education (DTE), Mumbai Approved Training program on "General Administration and Office Automation" Research and quality Assurance Cell, Government College of Engineering, Nagpur, 31 January 2024

3. Dr. Urmila Shrawankar, "AI  & ML for People with Special Needs", AICTE-ISTE Approved One Week STTP on "Concepts of Artificial Intelligence and Machine Learning towards Research Applications", Department of Computer Science and Engineering, Rajiv Gandhi College of Engineering Research and Technology, Chandrapur, 30 Jan 2024

4. Dr. Urmila Shrawankar, "AI & ML for Disabled People" at STTP on Recent Trends in Artificial Intelligence & Machine Learning,  Jawaharlal Darda Institute of Engineering and Technology, Yavatmal (MS), India, 08 Dec, 2023

5. Dr. Urmila Shrawankar, "Cloud Computing", Government Polytechnic, Sakoli, Bhandara (MS), India, 11 Sept 2023

## Publications

| S.N. | Name of Author | Name of Other Authors | Title of Paper | SCI/ Scopus /GS | International Journal Name | Year of Publication [DD/MM/ YYYY] |
|---|---|---|---|---|---|---|
| 1 | Sruthi nair | Djabeur Mohamed Seifeddine Zekrifa ,R. Saravanakumar ,Krishnagandhi Pachiappan,D. Vetrithangam | Securing energy horizons: Cloud-driven based machine learning methods for battery management systems | SCIE | Journal of Intelligent & Fuzzy Systems | Jan 2024 |

| Sruthi Nair | Khushi B,Sakshi F,Zeenat S,Shruti Jain | Plant Fettle Detector: Unifying Fruit Quality Tracking and Plant Disease Detection through Advanced Image Analysis. | | Scopus | 3rd International Conference for Innovation in Technology (INOCON 2024) | |

## STTP/FDP/other Training Attended by Faculty

Prof. Aarti Karandikar, Prof. Shruti Nair, Prof.Pwara. Prof.Gote,Prof. P.Khobragade, Prof. V.Katkar, Prof.Reetu Gupta, Prof.Pallavi Hiwarkar, Prof.Chanchal Dahat, Prof.Bhagyashree Hambarde, Dr. Supriya Gupta attended a FDP Training 15th Jan-19 Jan, 2024 organized by Dept Data Science ,RCOEM in collaboration with IIT Kanpur on "Machine Learning with python"

## Departmental Activities :

**Guest Lectures organized in the Department :**

### Guest Lecture on 'Web3 and Blockchain'

Date and Time of Event: 27/1/2024, 11:00 AM.
Name of Speaker: Ms. Anshita Soni, Growth Manager, CapX
Name of Faculty In-Charge: Prof. Rohit Pawar

Introduction : The Shri Ramdeobaba College of Engineering and Management was abuzz with excitement as it hosted a captivating lecture on 'Web3 and Blockchain' delivered by Anshita Soni, a dynamic growth manager at Capx, with a remarkable journey in the tech industry despite her young age. The event, which took place on 27/01/2024, drew in a diverse audience ranging from students to faculty members, all eager to delve into the realm of Web3 and blockchain technology.

Anshita Soni, a 21-year-old professional with a plethora of experiences in various domains including content creation, community management, and business development, began her lecture by sharing her personal journey. From humble beginnings as a curious teenager with a tech app idea during the COVID-19 lockdown, she narrated how her journey unfolded into a remarkable professional trajectory filled with learning, experimentation, and success.

## 2. REPORT ON INTERACTION SESSION

Date and Time of Event : 30-12-2023

Name of Faculty In-Charge : Prof. Rohit Pawar

Overview : An interactive session between seniors (VIII Semester) and juniors (VI Semester) of CSE(DS) branch, was organized with the aim of guiding juniors in preparation for upcoming campus placements. The session, held on 30-12-2023, provided a platform for seniors to share their experiences, insights, and tips to help juniors navigate the challenges of the recruitment process and excel in their career endeavours.

**Key Highlights :**

1. Experience Sharing :
2. Guidance on Resume Building :
3. Interview Preparation :
4. Technical Skills Enhancement :
5. Soft Skills Development :



## 3. REPORT ON GUEST LECTURE SESSION
## GUIDANCE ON CAREER AND HIGHER STUDIES

Date and Time of Event : 23-01-2024, 3:00-4:00PM.

Name of Faculty In-Charge : Prof. Rohit Pawar

Event Description : Mr. Parikshit Pawde, an alumnus from the 2020 Computer Science batch, is pursuing a Master's degree from Virginia Tech University, Blacksburg. He guided us through his experiences and motivated the students for future opportunities. The key takeaways were :     Placements Within the College: His personal experiences and strategies for securing placements. Informed about the impactful LinkedIn profile that stands out to potential employers. Gained practical tips on tailoring resumes to specific job applications. Discovered the relevance of platforms like Neetcode, Codechef, and Leetcode for technical interviews and coding assessments.  Masters in the US: Strategies for Success: Gained insights into the process of pursuing a Master's in the US. Received guidance on preparing for standardized tests like the GRE and GMAT. Explored various platforms and resources for effective test preparation.

## 4. REPORT ON GUEST LECTURE SESSION

**Date and Time of Event :** 22-03-2024, 3:00-4:00PM.

**Name of Faculty In-Charge :** Prof. Rohit Pawar.

**Session :** Career Guidance Session by Mr. Mayur Pathak, Sales Director - BFSI , Wipro.

On 22nd March 2024, the Department of Data Science at Shri Ramdeobaba College of Engineering and Management (RCOEM), Nagpur., organized a special career guidance and counselling session for its VIth semester students. The session was conducted by Mr. Mayur Pathak, a renowned cybersecurity business leader and Director & Client Engagement Partner at Wipro.



## FDP organized by the Department

### ON FDP " ONLINE Machine Learning with Python "

**Faculty Development Program - Machine Learning with Python**

**Date and Time of Event : 15.01.2024 to 19.01.2024 at 6.00 pm to 8.00 pm**

**Name of Speaker :** Mr. Archit Verma. from IIT Kanpur.

**Name of Faculty In-Charge :** Prof. Aarti Karandikar, Prof. Priya Khobragade, Dr. Supriya Gupta, Pro.Ashwini Zadgaonkar,  Prof. Shruti Nair

**Introduction :** Mr. Archit Verma (Trainer) from IIT Kanpur. Archit Verma, our esteemed AI and Block Chain  Subject Matter Expert, stands as an eminent figure of diverse expertise and extensive experience across varied technical domains. His broad skill set encompasses a spectrum of programming languages, notably C, C++, Python, Vyper, Go, R, Lua, and Shell (bash), complemented by comprehensive proficiency in Data Analysis, Data Science, Machine Learning, Deep Learning, Reinforcement Learning, Blockchain, Internet of Things, and Business Intelligence Tools such as Tableau and Power BI.

**Objective :** The main objectives of the FDP were:

1.  Faculties and students learn the concept, syntax, semantics and gain introductory knowledge in Machine Learning principles through examples that provide useful exposure to the various concepts of Machine Learning

2.  The programme is designed to enhance the learning and research skills of the participants, to make them aware about modern analytical tools and methodologies. It provides an opportunity to acquire knowledge about current technological developments in relevant fields. The programme  mainly focuses on Machine Learning algorithms and their applications with a practical approach.

**Outcomes of the Faculty Development Programme :**
1.  The participants would gain experience of how to work with data science, graph and social  media analytics, as they may work with case studies related to them.
2.  To gain more knowledge between structured and unstructured databases.
3.  Exposing the participants to the fundamentals of Machine learning and its application using Python.
4.  Enhance the research competence of faculty  and researchers in the areas of  machine learning

**Contents of the Programme :**
1.  Machine Learning-Introduction
2.  Machine Learning-Fundamental
3.  Python-Basics
4.  Core Concepts of Python (Required for ML Practical Implementation )
5.  Steps of Machine Learning Implementations
6.  Data Collection for Machine Learning
7.  Data Visualization for Machine Learning using Matplotlib
8.  Practical implementation of Supervised Machine Learning Algorithm
9.  Practical implementation of Unsupervised Machine Learning Algorithm

**Conclusion :** The FDP by  Mr. Archit Verma proved to be an enriching experience, providing faculty members with valuable insights into effective interaction strategies and the judicious use of python tools and technologies. The practical approach and real-world examples shared by the speaker added significant value to the overall learning experience.

Total 80 faculties participated in FDP from different colleges of india. attendance was monitored on daily basis.By the end of last day of FDP IITK conducted exam on hole session and those who are clear with exam only those will get certificate.
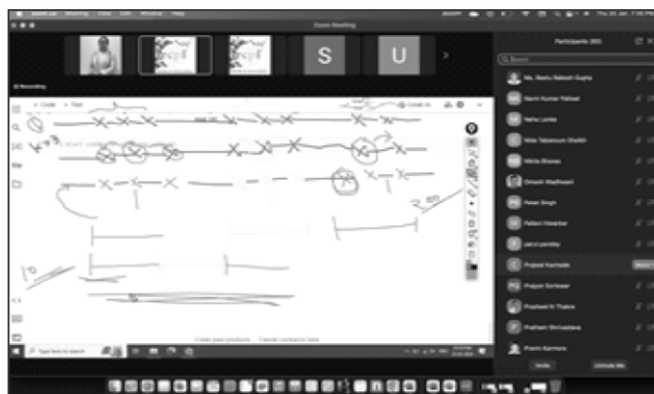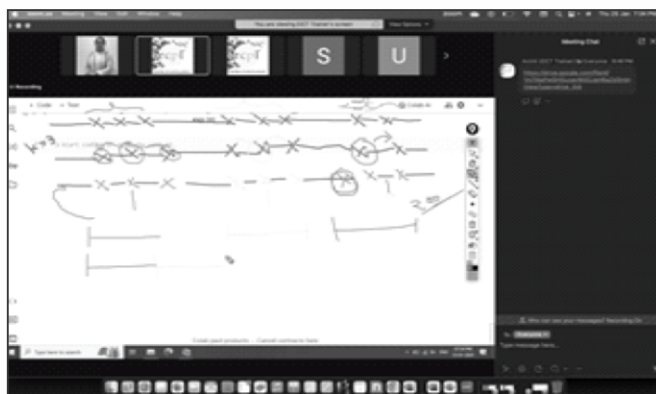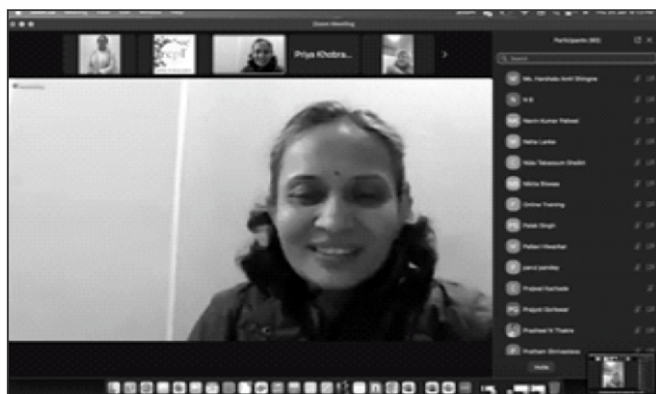
## 4. Placement and Internship from T&P

**Placement : Placement: 65% (44 out of 68)**          **Internship : 92%**

**Student Placement**
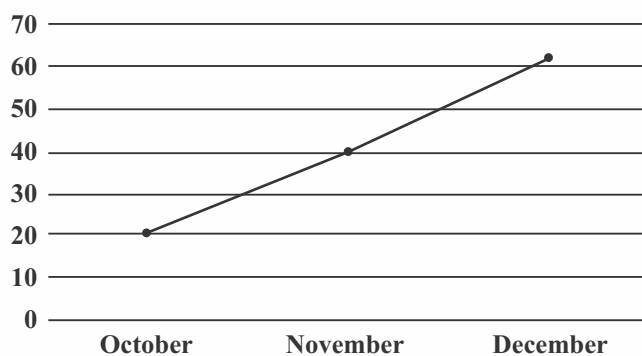


**Student Internship (63 out of 68)**
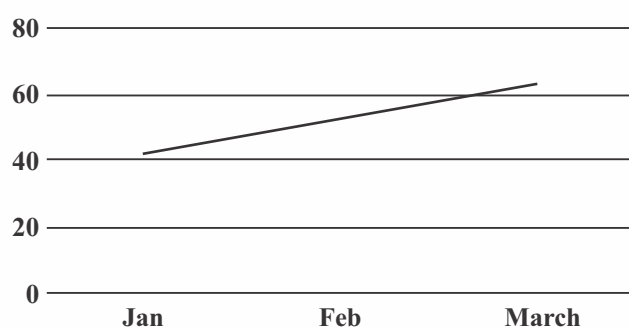
# Department of Computer Science and Engineering-AIML

## Faculty Corner
### Faculty Ph D Awarded

Prof. Durgesh M. Sharma, computer Science and Engineering – AIML has been awarded Ph. D by Vellore Institute of Technology (VIT) under School of Computing Science and Engineering discipline on 5th January 2024. His research topic was "Advanced Fault Classification and Privacy for Resilient Cyber-Physical Systems." He completed his research work under the guidance of Dr. Shishir Kumar Shandilya, Associate Professor, School of Data Science and Forecasting, Devi Ahilya Vishwavidyalaya (State Govt.), Indore, Madhya Pradesh.

*Prof. Durgesh M. Sharma*

## Guest Lectures/ Training Programs conducted by faculty

Dr. Suresh Balpande delivered hands-on training on "Industrial Internet of things based Automation" at Elkem South Asia Pvt. Ltd, Hingna MIDC, Nagpur on 30 January 2024. He also worked as a reviewer for science Direct for SCI indexed ELSEVIER International journal, Science of the Total Environment (STOTEN) with Impact factor: 9.8 in Febuary &March 2024. He also reviewed SCI indexed International Journal on "Nature Scientific Reports" in Febuary. He reviewed SCI indexed IEEE Sensors Journal (Impact factor: 4.3) in March 2024.

Dr. Nisarg Gandhewar has delivered expert lecture on 'AICTE Sponsored One Week Faculty Development Program on "Machine Learning, Deep Learning, and Challenges in Data Analytics."' at Priyadarshini J.L. College of Engineering, Nandanwan Nagpur on 11th January 2024. Dr. Amit Pimpalkar invited as a Judge for the XX-National Conference on Emerging Trends in Engineering &amp; Technology - SPARK2024, on March 15, 2024. K.D. K. College of Engineering, Nagpur an Autonomous Institute accredited by NACC & NBA, organized the conference. He was also invited as a Judge for the project competition BrainWaves-2k24, on March 22, 2024. The project competition was organised by J. D. College of Engineering & Management, Nagpur.

Dr. Chitharaja Rajan delivered guest lecture on "Programming on Problem Solving" at Cummins College of Engineering for Women, Nagpur on 30th March 2024. Dr. Chithraja Rajan and Dr. Bhumika Neole conducted one month "IoT Hands- on" training in CIIIT for Shri Ramdeobaba College of Engineering and Management (RCOEM), students from September to October 2023. Students understood IoT concepts and had rigorous practise on IoT Trainer Kit available. in centre. Finally, certificates have been distributed to participants on 1st February 2024.



*Certificate distribution to participants of "IOT Hands-on Training"*

## Publications

Dr. Nisarg Gandhewar published a research paper titled "IoT-Enabled Agricultural Waste Management for Sustainable Energy Generation" in International Journal of Intelligent System and Application in Engineering, Vol. 12(13s), ISSN- 2147-6799, in January 2024. (Scopus).

Dr. Amit Pimpalkar published a research paper titled "Prediction of Air Quality Index using SVR Machine Learning Model and Analysing Hazards Arising from Thermal Power Plants" in International Journal of Intelligent System and Application in Engineering, ISSN 2147-6799, Vol 12(13s), 603–608. in January 2024 (Scopus).

Prof. Sashi Rathore published a research paper titled "Semantic Segmentation in Medical Imaging using U-Net Convolutional Neural Networks" in International Journal of Intelligent System and Application in Engineering, ISSN-2147-6799, Vol 12(21s) in March 2024. (Scopus).

Prof. Priya Parkhi published a research paper titled "Employing CNN Features for Automated Brain Tumor Classification in MRI" in International Journal of Intelligent System and Application in Engineering, ISSN-2147-6799, Vol. 12 No. 11s, in February-2024 (Scopus).

Prof. Priya Parkhi also published a research paper titled "Predictive Modeling of bitcoin using Machine Learning Techniques" in International Journal of Intelligent System and Application in Engineering, ISSN-2147-6799, Vol. 12 No. 17s, in February-2024 (Scopus).

Dr. Yogesh Thakare published a research paper titled "Development and design approach of an sEMG-based Eye movement control system for paralyzed individuals" in J. Integr. Sci. Technol., ISSN 2321-4635, Vol 12, Issue 5, in February 2024 (Scopus).

Dr. Suresh Balpande published a research paper titled "Non-lithographic low-end fabrication techniques for Microfluidic Devices" in IEEE EDS Mini-Colloquium & International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS-2024) NIT , Silchar, in Springer LNEE. The conference was held on 29th to 31st January 2024.

Dr. Suresh Balpande published a research paper titled "Ionizing radiation detection for high energy applications using a p-RadFET dosimeter based on conventional CMOS

technology" by Shubham Anjankar" in 2nd International conference on Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT2024), Goa University, Goa, proceedings of which are published in AIP Conference Proceedings. The conference was held on 22nd and 23rd March 2024.

Dr. Amit Pimpalkar published a research paper titled "A Fraud Detection System in Financial Networks Using AntiBenford Subgraphs and Machine Learning Algorithms" in International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIIE), Ballari, India, E-ISBN:979-8-3503-1646-9, IEEE Xplore (Scopus).

Prof. Pranali Dandekar published a research paper titled "Image Super Resolution using U-Net Architecture and SRGAN: Comparative Analysis" in 2nd IEEE International

Conference on Computer, Communication, and Control, Medi-Caps University, Indore, IEEE Xplore, February, 8-10 2024 (Scopus).

Prof. Pranali Dandekar also published a research paper titled "Water Quality Index to determine whether water is drinkable using Machine Learning Algorithm" in 2nd IEEE International Conference on Computer, Communication, and Control,Medi-Caps University, Indore, IEEE Xplore, February, 8-10 2024 (Scopus).

Dr. Nisarg Gandhewar published a book chapter titled "Clinics to Algorithms Using Science and Technology: Exploring Intelligent Solutions for Timely Identification of Anxiety and Mood Disorders" published by IGI Global, ISBN/ISSN- 9798369310908 in February 2024.

Dr. Amit Pimpalkar published a book chapter titled "AI Tools and Applications for Women's Safety Chapter 19: Women's Empowerment Through AI: Discovering Data Analytics for Predictive Safety Solutions and Future Trends" published by IGI Global, ISBN/ISSN 9798369314357 in January-2024.

Dr. Amit Pimpalkar published a book chapter titled "Clinics to Algorithms Using Science and Technology: Exploring Intelligent Solutions for Timely Identification of Anxiety and Mood Disorders" published by IGI Global, ISBN/ISSN 9798369310908 in February 2024.

Dr. Durgesh Sharma published a book chapter titled "Quantum Computing-Powered Agricultural Transformation: Optimizing Performance in Farming", published by IGI Global, ISSN/ISBN 9798369309681 in March 2024.

## Patents

Patent application No. 202321088921 titled "A CYBER SECURITY THREAT DETECTION SYSTEM AND METHOD" filed by RCOEM and Prof. Durgesh Sharma 19th January 2024.

Patent application No. 202421007947 titled "A TEMPERATURE RETAINING AND CONDENSATION PREVENTING FLASK" has been filed by RCOEM and Prof. Priya Parkhi on 6th February 2024.

Patent application No. 6336867 titled "23 - FLUID DISTRIBUTION EQUIPMENT, SANITARY, HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT, SOLID FUEL" filed by RCOEM and Prof. kiran Khandare has been granted on 9th February 2024.

Patent application No. 6353971 titled "CLOUD DRIVEN DEVICE FOR RETAIL CHAIN MANAGEMENT" filed by RCOEM and Prof. Shashi Rathore on 19th March 2024.

Patent application No 202441020459 titled "DEEP LEARNING AND IMAGE PROCESSING FOR LUNG CANCER DETECTION IN IOT HEALTHCARE SYSTEMS" filed by RCOEM and Dr. Nisarg Gandhewar is published on 29th March 2024.

## STTP/FDP/other Training Attended by Faculty

Dr. Chitharaja Rajan, Prof. Deepa Das, and Prof. Neha Lanke attended FDP on Machine Learning with Python organized by IIT Kharagpur from 18th to 24th January 2024.

Dr. Chitharaja Rajan attended Faculty Development Program on Advanced Semiconductor Devices organized by PDPM-IIITDM Jabalpur from 29th January to 2nd February 2024.

Prof. Deepa Das, and Prof. Kiran Khandare attended FDP on High Performance Computing organized by IIIT Nagpur from 10th to 16th January 2024. Prof. Deepa Das also attended FDP on Role of ICT for successful Implementation of NEP 2020 organized by IIT Roorkee from 2nd to 9th January 2024.

Dr. Suresh Balpande, Prof. Deepa Das, and Prof. Neha Lanke attended Six Days National Level F D P on Disruptive Technologies in Electronics Engineering organized by Satyabhama Institute of Science & Technology, India in association with IIT Madras from 8th to 13th January 2024.

Dr. Amit Pimpalkar attended and presented a paper in IEEE International Students' Conference on Electrical, Electronics and Computer Sciences (SCEECS) organized by MANIT, Bhopal, India on 24th and 25th February 2024.

Dr. Y. N. Thakre attended and presented a paper in 2nd IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI) organized by ABV-IIITM Gwalior from 14th to 16th March 2024. He also attended International Conference on Cognitive, Green and Ubiquitous Computing (IC-CGU-2024) organized by C. V. Raman Global University Bidyanagar, Bhubaneswar, Odisha on 1st and 2nd March 2024. He also attended Two Weeks Short Term Training Programme on

"Fundamental of Machine Learning" organized by NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH, KOLKATA from 11th to 15th March 2024.

Dr. Suresh Balpande attended and presented a paper in 2nd International conference on "Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT2024)", Goa University, Goa organized by School of Physical and Applied Sciences, Goa University, Goa from 22-23 March 2024.

Dr. Suresh Balpande attended and presented a paper in IEEE EDS Mini-Colloquium & International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS-2024) organized by NIT , Silchar from 29-31 January 2024.

Dr. Nisarg Gandhewar attended ATAL FDP on Generative AI & It's Applications organized by G. H. RAISONI INSTITUTE OF ENGINEERING & TECHNOLOGY Nagpur from 5th to 10th February 2024.

Prof. Pranali Dandekar attended and presented a paper in 2nd IEEE International

Conference on Computer, Communication, and Control organized by Medi-Caps University, Indore from 8th to 10th Feb 2024. She also attended International Conference on Advanced Communication, Energy and Big Data (ICACEBD-24) organized by GHRIET Nagpur from 15th and 16th March 2024.

Prof. Pranali Dandekar has also attended and presented a paper in IEEE International Students' Conference on Electrical, Electronics and Computer Sciences (SCEECS) organized by MANIT, Bhopal, India on 24th and 25th February 2024.

Dr. Yogesh N. Thakre and Prof. Deepa Das attended Two Weeks Faculty Development Programme / Short Term Training Programme on "Advanced Pedagogy" organized by NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH, KOLKATA from 15th January to 26th January 2024.

## Departmental Activities
### Guest Lectures Organized in the Department

An expert lecture on "Entrepreneurial Empowerment: Strengthening Your Profile for Success" has been organized for VI th Semester students on 20th January 2024. The speaker for the guest lecture was Mr. Vedant Khairnar, Developer Advocate, Juspay, Bengaluru.

Dr Manmath Deshpande, Head Aptitude Development Center Nagpur delivered expert lecture on "Unlocking Aptitude: Strategies for Skill Enhancement and Success" for Vith Semester students. The lecture was organized on 17/02/24 & 02/03/24.

An expert lecture on Opportunities & Challenges for emerging computing trends has been organized for Vith semester students on 20th February 2024. The speaker for the lecture was Mr Dhiraj Motghare, Director Global Logic, Nagpur & Dr Rizwan Ahmed Division Head, Digital Innovation DelaPlex Nagpur.

Mr. Mayur Pathak, Director, BFSI Sales, Wipro Mumbai delivered expert talk on "Strategic Soft Skills: Enhancing Interview Performance and Career Trajectory" for Vith semester students on 23rd March 2024.

## Parents Meet

The Parent's Meet for the IVth and VIth Semester, Session 2023-24 was conducted on 9th March 2024. Parents interacted with Dr. S. S. Balpande HOD, CSE-AIML and Faculty members. They discussed results, placement activities, internships, and prominent achievements of CSE-AIML students.

*Parents interacting with faculties of CSE-AIML Department*

## Students' Corner
### Student's Placements

Department of CSE-AIML has excellent placement record for 2024 Batch. Out of 69 students, 43 students placed in companies. The placement details of department for session 2023-24 are as follows :

Placement Statue for 2024 Batch
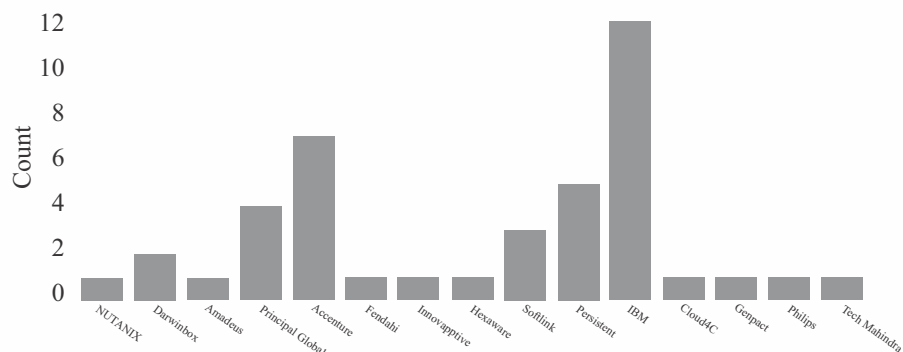
*Placement status of 2024 batch*

| Sr. No. | Name of Company Visited | CTC in LPA |
|---|---|---|
| 1 | NUTANIX | 22 |
| 2 | Darwinbox | 16.3 |
| 3 | Philips | 14 |
| 4 | Sahaj | 13 |
| 5 | Amadeus | 11.77 |
| 6 | Principal Global | 8 |
| 7 | ZOHO | 8 |
| 8 | Fendahl | 7.5 |
| 9 | Innovapptive | 7 |
| 10 | Hexaware, Softlink | 6 |
| 11 | IBM, Accenture | 4.5 |
| 12 | Cloud4c, LTTS | 4 |
| 13 | Tech Mahindra, Talent Serve, | 5.5 |
| 14 | My Captain | 5 |
| 15 | Techwalnut | 3.6 |

*List of companies visited with annual packages*

**Six Months Full Time Internship offers : 56**

**Highest Stipend (Internship) : Rs. 50,000**

Mr. Chaitreya Bhelkar has secured an industry internship in Nutanix with highest stipend of Rs. 50,000 per month.

**Higher Studies -**

**1. GATE Exam qualified candidates**

| Sr No | Name | Class | Remark |
|---|---|---|---|
| 1 | Sagar Pathak | | Cleared Both CS & DA, GATE24 |
| 2 | Yash Bansod | VIII Sem | GATE 24 (CS) |
| 3 | Shantanu Mane | | GATE 24 (CS) |
| 4 | Rohit Patil | | GATE 24 (CS) |
| 5 | A Chandra Kishan Singha | | GATE 24 (CS) |
| 6 | Pratyush Shendre | | GATE 24 (DA) |
| 7 | Shreyas Raut | VI Sem | GATE 24 (CS) |
| 8 | Om Ghumre | | GATE 24 (CS) |
| 9 | Aditya Sahu | | GATE 24 (CS) |
| 10 | Padmaja Sule | | GATE 24 (CS) |
| 11 | Mrunal Thakre | | GATE 24 (CS) |
| 12 | Rudra Ranjan | | GATE 24 (CS) |

**2. GRE/TOFEL/IELTS Exam qualified**

| Sr No | Name | Class | Remark |
|-------|------|-------|--------|
| 1 | Khushi Savaliya | VIII | TOEFL |
| 2 | Vedant Padole | | GRE & IELTS |
| 3 | Manav Rajesh Anandani | | IELTS |
| 4 | Aashi Khanna | | GRE |
| 5 | Jiya Rathi | | GRE |
| 6 | Ketaki Tank | | TOEFL |

## Toppers of the Department

**Toppers of regular winter 2023-24 examination of CSE-AIML are as below :**

| EXAM | SEM | Name of Student | CGPA |
|------|-----|-----------------|------|
| RW-23 | V | PADMAJA MANOJ SULE | 9.92 |
| | V | NIDHI NAGESHWAR RAO MANYAM | 9.77 |
| | V | ANUJ NARESH SHRIVASTAVA | 9.7 |

| EXAM | SEM | Name of Student | CGPA |
|------|-----|-----------------|------|
| RW-23 | III | AYUSH RAJIV GOYAL | 9.93 |
| | III | ROMIT GHOSH | 9.93 |
| | III | APURVA VIJAY RAUT | 9.85 |

| EXAM | SEM | Name of Student | CGPA |
|------|-----|-----------------|------|
| RW-23 | VII | KETAKI PRITESH TANK | 10 |
| | VII | MADHAV DAYANAND JHA | 9.79 |
| | VII | SAMIKSHA MANOJKUMAR PANPALIYA | 9.58 |

## Departmental Forum Activities

The Altronix (AIML Departmental Forum) successfully organized "Xpression"- the much-anticipated departmental event. Various activities including sports day, fun activities, technical event, and cultural night was organized between 21st January 2024 to 27th January 2024. The inaugural ceremony was held on 24th January 2024 at 10 AM.

*Glimpses of Xpression- 2024 Inaugral ceremony*

Following the inaugural ceremony, the ALTRONIX committee organized a captivating guest lecture on "Recent Trends and Job Opportunities in Cloud Computing." The esteemed speaker of the session was Mr. Somail Deshmukh, a senior Technical Specialist with TCS.
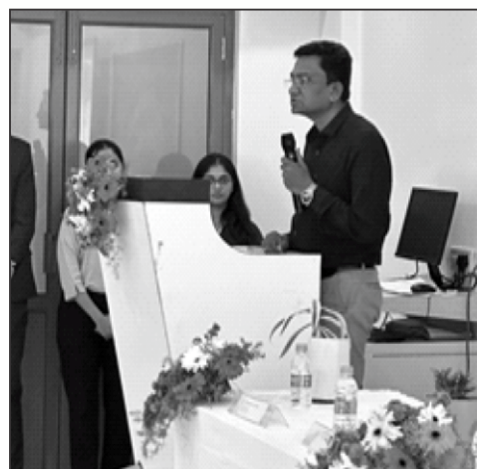


*Mr. Sahil Deshmukh delivering guest lecture*

The Altronix (AIML Departmental Forum) successfully organized "Sports Day" for students of 2nd, 3rd, and 4th year on 21st January 2024. Various sports events including Volleyball, Basketball, Chess, Table tennis, and Tug of war were conducted. The winners from each section demonstrated not only their athletic prowess but also the spirit of teamwork and determination




*Students participating at various sports activities on sports day*

*Cultural Night of Xpression -2024*

## Sports/Cultural Achievements

Vedant Jayant Padole (Semester VIII) won 1st Prize in Hackathon which was hosted by ETS college and entitled a cash prize of Rs.50,000/-.

Ansh Thakre participated in intercollegiate virtual oratorship competition conducted at GCOEM , Nagpur from 20th and 21st February and secured second rank with cash prize of Rs. 2000.

Aadya Pande participated in Yuvarang 2024-Classicial Dance Competition conducted by RTMN University, Nagpur from 19th to 24th March 2024  and secured 2nd rank. She also participated in intercollegiate branch cup held at RCOEM, Nagpur and secured 1st position.

Sharvari Wakhare (VIth Semester), and Anushka Mahule (VIth Semester) participated in group dance competition at dance cup 2024  hed at RCOEM, Nagpur on 27th January 2024 and secured 1st position. They also participated in Manifest group dance competition held at Symbiosis, Nagpur, held on 9th March 2024 and secured first rank with cash prize of Rs 10000.

Mahima Yadav (VIth Semester) participated in Trio Dance Competition in intercollegiate branch cup held at RCOEM, Nagpur and secured 1st position.

Anushka Mahule (VIth Semester) and Mahima Yadav (VIth Semester) participated in Throwball Sports Match, Branch Cup 2024 held at RCOEM, Nagpur and secured second position.

Rishika Batra (VIth Semester) secured third position in chess competition at chess Branch cup 2024 held at RCOEM, Nagpur from 21st to 25th March 2024.

## Department of Electronics and Communication Engineering

### Publications

1. Dr. P. K. Parlewar has published a paper titled "The Role of Detection Algorithms in Tracking Techniques with the help of Deep Learning for an Enhanced user Experience" in the Journal of Electrical Systems (JES), Vol. 20 Iss. 1s, ISSN: 1112-5209, March 2024. Scopus.

2. Dr. P. K. Parlewar has published a paper titled "Advancements in Text Summarization Through Machine Learning: A Comprehensive Survey and Analysis " in the Journal of Electrical Systems (JES) Vol. 20 Iss. 1s, ISSN: 1112-5209, March 2024. Scopus.

3. Mridula Korde, Sanskruti Bhujade, Aditya Shahu ,Yashashwi Wahie ,Hritik Pandey presented a paper titled " Personal Voice Assistant" in Fifteenth International Conference on Advances in Power Electronics and Instrumentation Engineering - PEIE 2024 (Scopus conference) in Bangalore during 26-27 January 2024.

4. V. S. Lande has published a paper titled "Identification of Medicinal Leaves and Recommendation of Home Remedies using Machine learning" in International Journal of Intelligent Systems and Applications in Engineering, 407–413 with ISSN :2147-6799, Vol. 12 No. 12s (2024) (Scopus)

5. Dr. Prasanna P. Deshpande has published a paper titled "Software Bug Prediction and Detection Using Machine Learning and Deep Learning" in International Journal of Intelligent Systems and Applications in Engineering with ISSN 2147-6799, Vol. 12, Issue 9s (2024), (Scopus).

6. Dr. Prasanna P. Deshpande has published a paper titled "Enhancing Computer Science: Exploring the Power of Decentralized Blockchain Techniques in IoT Security and Privacy" in International Journal of Intelligent Systems and Applications in Engineering with ISSN 2147-6799, Vol. 12, Issue 14s (2024), (Scopus).

7. Puja S. Agrawal P. M. Ghadge, R.P. Malapure, R.J. Hedau presented a paper titled 'Elevating Large-Scale Forest Surveillance: A Deep Learning Analysis of V3 and EfficientNet for IoT-Driven Fire Detection' in Springer International Conference on Multi-Strategy Learning Environment ICMSLE 2024, at Dehradun, India Springer Algorithms for Intelligent Systems.

8. Puja S. Agrawal Ketan Dhakate, Krishna parthani, Abhishek Agnihotri presented a paper titled "EfficientNet B0 CNNs for Orange Huanglongbing and Tomato Pathogens" International Conference on Innovations in Cyber security and Data Science (ICICDS-2024), REVA University, Bengaluru, India March 15-16, 2024 Springer Algorithms for Intelligent Systems.

9. Dr. Ankita H. Harkare published a paper titled Compact Circularly polarized MIMO dielectric resonator antenna for complete X-Band Coverage in IEEE Xplore with doi: 10.1109/MAPCON58678.2023.10464026 Electronic ISBN:979-8-3503-2826-4 (Scopus)

## STTP/FDP/other Training Attended by Faculty

1. Dr. S. B. Pokle successfully completed Two weeks online FDP on "Entrepreneurship Essentials" conducted during 22 January 2024 to 6 February 2024 at Chitkara University, Punjab under the aegis of NSTEDB, DST.

2. Prof. Nishant M. Borkar has attended a workshop on "Machine Learning with Python" Organized by E & ICT Academy, IIT Kanpur (A Joint initiative of MeitY & IIT Kanpur) & Shri Ramdeobaba College of Engineering and Management, Nagpur, from 18-01-2024 to 22-01-2024.

3. Prof. Nishant M. Borkar have attended a workshop on "Fostering Research Culture" on 16th March 2024, Sponsored by Science and Engineering Research Board (SERB) under Scientific Social Responsibility (SSR) Organised by Department of Electronics and Communication Engineering, VNIT, Nagpur.

## Departmental Activities

### Industrial Visits

A visit to Hi-Tech Resistor Pvt. Ltd ,MIDC Higna, Nagpur was conducted on 17thFebruary 2024, with 39 students of 2nd year, Sec-A EC along with Dr. B. A. Neole, Dr. P. P. Deshpande Dr. A. P. Nilawar, Prof. V S Lande faculty members of EC.



The second round of industrial visit to Hi-Tech Resistor Pvt. Ltd ,MIDC Higna, Nagpur was held on 23rd March 20247, with 48 students of 2nd year, Sec-B EC along with Dr. D G Khushalani, Dr. J D Kene, Prof. Ms S Barman, Prof. V S Lande faculty members of EC.

## Parents Meet





Department of Electronics and Communication Engineering organized a Parent-Teacher Meeting for the session 2023-24 (IV and VI Semester) on 9th March 2024. Parent-Teacher Meeting coordinator Dr. 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. D. J. Dahigaonkar addressed the gathering conversing about the various curricular and extracurricular activities conducted by the department before and during this online mode of teaching. He especially addressed the parents about the support mechanisms and activities carried

out to fulfill overall development of the students. A brief review of academic activities, teaching learning process and PO, PSO mapping was also 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 by department portfolio incharges. The schemes offering counselling to students were also discussed. Parents were also made aware about the academic and exam rules, guidelines and detention rules. T1 performance of students was discussed and special attention needs to be paid on the attendance of students was conveyed to parents.



The enthusiastic parents showed keen interest in the meeting. Parents disclosed their satisfaction regarding the culture and atmosphere prevailing in the department and talked about their queries related to the academics and personal growth of their ward. The parents assured students performance will improve in upcoming examinations.

## Lectures organized in Department

### Value Added Course (VAC) on "Essential Soft Skills for Academic and Career Excellence"

The Department of Electronics and Communication Engineering organized under *Faculty Coordinators:* Prof. Puja S. Agrawal and Prof. Nitin B. Chakole a **Value Added Course (VAC) on "Essential Soft Skills for Academic and Career Excellence" from 18th to 23rd March 2024 (6 Days).** With **132 registered students,** the course aimed to equip IV-semester students with crucial soft skills for their academic and career journeys. **External trainers Mrs. Lekha Thakkar and Mr. Vaibhav Dhandare from Rubicon Foundation, Pune,** guided students through a comprehensive curriculum covering communication, time management, leadership, and professional etiquette. The interactive sessions focused on real-world applicability, industry expectations, grooming, body language, and email etiquette.

A valedictory function recognized the dedication of students, with certificates awarded to **119 who successfully completed the course.** Special thanks to Barclays Bank PLC's Life Skills Program for their support under Corporate Social Responsibility.

*Classroom Activity from an external trainer Mr. Vaibhav Dhandare from Rubicon Foundation, Pune.*



*Classroom Activity by an external trainer Mrs. Lekha Thakkar from Rubicon Foundation, Pune.*



*VAC-24 Valedictory function*

## Students' Corner
### Student Achievements

1. A Moment of Pride for RCOEM, Our students Ms. Arya Dongre (ECE 3 rd year) & team won silver medal on behalf of RTMNU Basketball Team at Ashwamedh krida mahotsav2024(Maharashtra state university meet) held at Nagpur university ground, Ravi Nagar during 12-16 January 2024.



2. Sana Ansari, ECE 2nd year and Palak Agrawal, AIML First Year bagged the 2nd position and Cash prize at Dr. M.K Umathe College Inter-Collegiate Debate Competition on 17th Jan 2024.

**Branch Cup**

Branch Cup is the intra-College competition held between all the branches of the college. These competitions include sports , drama , dance and more such categories.

The students of ECE department participated with full enthusiasm and made it to the top of the leader board, culminating in a resounding victory and reaffirming their status as champions of the Branch Cup for yet another year.

**The Trophies won were :**
1.  Sports Cup (Overall)
2.  Sports Cup (Boys)
3.  Sports Cup (Girls)
4.  Drama Cup







**Other activity (s) :**

1.  Dr. S. B. Pokle invited as a Reviewer for International Journal "Automatika: Journal for Control, Measurement, Electronics, Computing and Communications" Indexing" SCI, Submitted 01 research Paper review on 25 January 2024.
2.  Dr. S. B. Pokle Invited as a Subject Expert on UGC selection committee appointed by RTM Nagpur University for recruitment of Associate Professor, Assistant Professor in ETC dept. at Jhulelal Institute of Technology, Nagpur on 1st February 2024.
3.  Prof. Nishant M. Borkar, Mr. Tanmay Rewari, S. Balakumar, Mohit Deshpande and Tanmay Chobe have been granted a patent on "A SYSTEM FOR REMOTE ECG MONITORING OF A PATIENT" on 11th March, 2024.

# Department of Electronics Engineering

## Faculty Corner

### Guest Lectures taken by faculty

1. Snehal Laddha delivered a expert talk on Internet of Things (IoT) on 16 Feb 2024 for Students of Bhavan's B.P Vidya Mandir (Civil lines Branch) in talk organized by RCOEM-TATA-CIIIT, RCOEM Campus, Nagpur

2. Lokesh Heda Conducted training session on &quot;Internet of Things (IoT) @ RCOEM-TATA-CIIIT, Shri Ramdeobaba College of Engineering and Management, RCOEM Nagpur for 9th std. students of Bharatiya Vidya Bhavan&#39;s B.P Vidya Mandir (Civil line Branch) on 9th-14th-15th February 2024.

## Publications

1. Shubham Anjankar, Rasika Dhavse have published a paper titled Extensive thermal-range simulation study of interface traps and oxide charges in an oxide optimized MOS-capacitive radiation sensor for space applications Journal of the Korean Physical Society with ISSN: 1976-8524 https://doi.org/10.1007/s40042-024-01011-z (SCI)

2. Shubham Anjankar, Rasika Dhavse have published paper titled Design and optimization of MOS capacitor based radiation sensor for space applications in Arabian Journal for Science and Engineering with E-ISSN:2191-4281https://doi.org/10.1007/s13369-023-08673-0 (SCI)

3. Dr. Richa R Khandelwal, Aditya Dwivedi, Danish Siddiqui, Pratik Yeotkar have published a paper titled CGPCRobot:pole climbing robot with controlled gripper mechanism in Sadhana: Indian Academy of Sciences with ISSN: 0256-2499 https://link.springer.com/article/10.1007/s12046-023-02424-5 (SCI)

4. Sandeep Pandey, Dr. Nitin Narkhede, Jitendra Zalke have published a paper titled An Ultrasonic Time of Flight Sensing System Based on Custom Hardware of Time to Digital Converter (TDC) for Measurement of Glucose Concentration in IEEE Sensors Journal with ISSN: 1530-437X Electronic ISSN: 1558-1748 (SCI)

5. Dr. Kanchan Dhote, Manan Agrawal, Khushali Soni , Sahil Sajnani, Om Nagpurey, Shreeyash Rahate have published a paper titled Integrating Advanced Big Data Analytics for Strategic Price Projections in the Oil and Gas Industry in 8th International Conference Information System Design and Intelligent Applications (ISDIA 2024) Hive Pro, Dubai during 3rd-4th January 2024 (Springer)

6. Snehal Laddha, Isha Gawate, Dr. Rohini Ochawar have published a paper titled Automated Segmentation of Liver from Dixon MRI Water-only Images using Unet, ResUnet and Attention Unet Models in 8th International Conference on Information System Design and Intelligent Applications (ISDIA 2024) Hive Pro, Dubai during 3rd-4th January 2024 (Springer)

7. Smita Daware, Tanvi Mahant ,Sharayu Jaulkar , Manasvi Dhagat , Sankalp Kitey,Harshil Shivdasan have published a paper titled Revolutionizing Leave Management: A Seamless Blend of User-Centric Design and Blockchain Integration in Cloud Computing in 8th International Conference Information System Design and Intelligent Applications (ISDIA 2024) Hive Pro, Dubai during 3rd-4th January 2024 (Springer)

8. Snehal Laddha, Ankita Harkare have published a paper titled Automated Liver Segmentation in MR T1 In-Phase Images Transfer Learning Technique in 8th International Conference on Information System Design and Intelligent Applications (ISDIA 2024) Hive Pro, Dubai during 3rd-4th January 2024 (Springer)

9. Dr. Gouri Morankar published a paper titled Robust, Lossless and Parallel Medical Image Encryption Scheme in Fourth International Conference on Advances in Electrical, Computing, Communications and Sustainable  Technologies (ICAECT 20243) Bhilai, Chhattisgarh, India during 11-12 Jan 2024 (Scopus)

10. Dr. Nitin Narkhede, Ruchi Rathi, Dr. M.A. Hasamnis have published a paper titled Design and Implementation of First in First out (FIFO) Buffer for distributed load balancing systems in 8th International Conference on Smart Trends for Computing and Communication SmartCom 2024 during 12-13 Jan 2024 with ISSN: 2367-3370 (Springer LNNS-Scopus)

11. Dr. Deepali M Kotambkar, Pranay Sudhir Dongre have published a paper titled Diabetic Eye Health: Deep Learning Classification in ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICETSIS) Applied Science University in Bahrain, Kingdom of Bahrain during 28-29 Jan 2024 (Scopus Indexed IEEE Conference)

12. Shubham Anjankar, Dr. Suresh Balpande have published a paper titled Non-lithographic low-end fabrication techniques for Microfluidic Devices in 4th International Conference on Micro/Nanoelectronics Devices,Circuits, and Systems (MNDCS-2024) National Institute of Technology Silchar, Assam, India during 29-31 Jan 2024 (Scopus)

13. Dr. Bhalchandra M Hardas, Krish Tomar have published a paper Impact of Groundwater Quality on Agricultural Productivity: A Comprehensive AI-Driven Analysis in 2nd IEEE International Conference on Computer, Communication and Control  Medi-Caps University, Indore, India during 08-10 February 2024 (IEEE Xplore/Scopus)

14. Snehal Laddha have published a paper titled A Novel Method of Enhancing Skin Lesion Diagnosis Using Attention Mechanisms and Weakly-Supervised Learning in 5th World Conference on Artificial Intelligence: Advances and Applications at Sir Padampat Singhania University, Udaipur during 22-23 Feb 2024 (Scopus)

15. Nikhil Damle, Gauri Damle, Avantika V. Rewtani Sanskruti A. Zade have published a paper titled A Comprehensive Survey on IoT Infrastructure Vulnerability Analysis in Hinweis Second International Conference on ARET-2024 Kolkata India during 23-24 Feb 2024 (Scopus)

16. Dr. Gouri Morankar, Neha Tomar, Mihir Mendse, Rupal Paliwal, Vivek Wanve have published a paper titled Image Semantic Segmentation: Scene Aware System for Autonomous Vehicle in International Conference  in Advances in IoT, Security with AI (ICAISA-2023) in Lecture Notes in Networks and Systems series during March 2023 (Scopus)

17. Dr. Nitin Narkhede, Jitendra Zalke have published a paper titled Green synthesis of Conductive Porous Film and its Application on Screen- Printed Electrodes Used For Biomedical  Application in 3rd International Conference for Innovation in Technology (INOCON 2024) at Sai Vidya Institute of Technology, Rajanukunte, Bangalore, Karnataka during 4-6 March 2024 (Scopus)

18.  Sandeep Pandey, Samidha Nayak, Aarya Agrawal, Jyoti Yadav, Jitendra Zalke have published a paper titled IoT-Based Intravenous Fluid Level Indicator Enhancing Patient Safety In The Era of Smart Healthcare System in IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation, ABV-IIITM Gwalior, Madhya Pradesh, India during 14-16 Mar 2024 (Scopus Indexed IEEE Conference)

19.  Shubham Anjankar, Dhiraj Patel, Abhishek Tripathi have published a paper titled Ultra-thin gate oxide based multigate MOSFET based ionizing radiation dosimeter for high energy applications in Second International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT 2024), Electronics Programme, School of Physical and Applied Sciences, Goa University, Goa, India during 22-23 Mar 2024 (Scopus)

20.  Shubham Anjankar, Dhiraj Patel, Abhishek Tripathi,Dinesh Rotake, Dr. Suresh Balpande have published a paper titled Ionizing radiation detection for high energy applications using a p-RadFET dosimeter based on conventional CMOS in Second International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT 2024), Electronics Programme, School of Physical and Applied Sciences, Goa University, Goa, India during 22-23 Mar 2024 (Scopus)

21.  Smita Daware, Sankalp Kitey have published a paper titled Component Removal and Segregation Systems for PCB Management in Second International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT 2024), Electronics Programme, School of Physical and Applied Sciences, Goa University, Goa, India during 22-23 Mar 2024 (Scopus)

## STTP/FDP/other Training Attended by Faculty

1.  Prof. Shubham Anjankar have attended 2 weeks online Faculty Development Program on Disruptive Technologies in Electronics Engineering organized by Department of Electronics and Communication Engineering, Sathyabama Institute of Science and Technology, Chennai during 8-13 Jan 2024.

2.  Dr.Kanchan Dhote have attended one week FDP on Machine Learning with Python organized by Shri Ramdeobaba College of Engineering and Management, Nagpur in association with E & ICT Academy, IIT Kanpur during 18-22 Jan 2024.

3.  Prof.R.H.Khobragade have attended one week FDP on Machine Learning with Python organized by Shri Ramdeobaba College of Engineering and Management, Nagpur in association with E & ICT Academy, IIT Kanpur during 18-22 Jan 2024.

4.  Prof.Vishal Rathee have attended one week FDP on Machine Learning with Python organized by Shri Ramdeobaba College of Engineering and Management, Nagpur in association with E & ICT Academy, IIT Kanpur during 18-22 Jan 2024.

5.  Prof. Snehal Laddha have attended one week FDP on Machine Learning with Python organized by Shri Ramdeobaba College of Engineering and Management, Nagpur in association with E & ICT Academy, IIT Kanpur during 18-22 Jan 2024.

6.  Dr.Kanchan Dhote have attended one week FDP on Advanced Pedagogy organized by NITTTR,Kolkata during 15-26 Jan 2024

7.  Dr. Gouri Morankar have attended FDP on Research Methodology organized by NITTTRK/IC during 29th Jan – 9 Feb 2024.

## Departmental Activities

**Conference, STTP and Guest Lectures organized in Department**

1. Prof. Lokesh M. Heda organized a Guest lecture on A Guide to Studying in the USA and Transitioning from Electronics to Data Analytics on 13th Jan 2024. Mr. Neeraj Rangwani (Alumnus EN-2022 Batch), Master's in Data Analytics at Northeastern University in Boston, USA was the resource person.

2. Prof. Lokesh M. Heda organized a Guest lecture on Career Metamorphosis: Navigating the Transformation in Technology on 8th Feb 2024. Mr. Ashwin Shukla (Alumnus EN-2020 Batch), ERP Engineer at ZS Associates, Pune, M.S. India was the resource person.

## Students' Corner

**Placement statistics of 2023-24 Pass out**

| Company/Sector | Number of students placed |
|---|---|
| IT and allied sector | 59 |
| Total | 59 |

## Any Other Activity (s) :

Prof. Lokesh Heda of Electronics Enginnering department won gold medal in carrom at UDGOSH 6.0, the RCOEM-Annual Sports Festival, Shri Ramdeobaba College of Engineering and Management, RCOEM Nagpur. This event, held annually, showcases the athletic talents of students and faculty members, emphasizing the importance of extracurricular activities alongside academic purist.



*Prof Lokesh Heda receiving Gold Medal in in carrom at UDGOSH 6.0*

# Department of Electrical Engineering

## Faculty Corner

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

1. Prof. (Ms.) M. B. Gaikwad has successfully completed 08 weeks NPTEL FDP on "EV - Vehicle Dynamics and Electric Motor Drives" organized by IIT Delhi during January to March 2024.

2. Dr. (Ms.) V. A. Huchche has successfully completed 08 weeks NPTEL FDP on "EV - Vehicle Dynamics and Electric Motor Drives" organized by IIT Delhi during January to March 2024.

3. Dr. (Ms.) P. V. Kapoor has successfully completed 08 weeks NPTEL FDP on "Introduction to Programming in C" organized by IIT Kanpur during January to March 2024.

4. Dr. (Ms.) G. N. Goyal has successfully completed 08 weeks NPTEL FDP on "Programming in Java" organized by IIT Kharagpur during January to April 2024.

5. Dr. (Mrs.) P. A. Salodkar has participated in " Integrating Skill in Curriculum" 30th January to 03rd February 2024 at PASHU Solapur in collaboration in Punyshlok Ahilyadevi Holkar, Solapur University, Solapur

## Faculty Recognition

Dr. Sanjay Bodkhe, was invited to be the Session Chair in the "International Conference on Green Hydrogen and Clean Energy" organized by the Institution of Engineers (I), Nagpur Local Chapter on 10th and 11th February 2024. Er. S. F. Lanjewar Electrical Consultant, GoI was the Convener of the conference.



*Dr. S. B. Bodkhe being welcomed by Er. Lanjewar*

## Patent Grant

1. A patent has been granted for an invention titled "Solid State devices based Secondary Current Injection techniques for Testing of Earth Leakage Relay" filed by RCOEM and Dr. U. B. Mujumdar. Dr. U. B. Mujumdar , Mr. Rajneesh Shendre and Mr. Mohnish Mahale ( 2019 pass out batch students) are the Inventors of the patent work.

2. A patent has been granted for an invention titled "Reducing charging/ Discharging Time for Supercapacitor Bank by Controlled Series/ Parallel Connections" filed by Dr. S. B. Bodkhe .

3. A patent has been granted for an invention titled "False Trip Prevention of Transformer Due to Inrush Current" filed by Dr. V. T. Barhate  (Retired).

## Departmental Activities
### Parents Meet, Alumni Meet and Departmental Installations or Events
### Parent-Teacher Meet (Even Semester, Session 2023-24)

The Parent-teacher meet was organized on 09th March 2024 (Saturday) at 11.00 am in Electrical Department Library. Dr. V. A Huchche, PTM Coordinator welcomed all parents and shared the details about student attendance in the class and their performance in the ClassTest-1 with parents. Total six parents attended the meet. During the meeting, Prof. M. B. Gaikwad class teachers of IV semester and Dr. P. V. Kapoor, class teachers of VI semester discussed about the attendance and performance of the students with the parents. Course coordinators and faculty members were present in the meet.

Head of the Department, Dr. U. B. Mujumdar and Professor, Dr. S. B. Bodkhe, discussed about progress of students and addressed the queries of parents.



*Glimpse of Parent-Teacher Meet*

### Alumni Meet

The Department has organized a series of online interactive sessions by the alumni "Meet your Illustrious alumni" whereby they discuss their experiences in the industry and their post-college roadmap. As a first mentor, 1998 batch alumnus, Mr. Amit Rahalkar, Senior Technical Program Manager, Amazon Payment Products, Cary, North Carolina, USA graced his presence on 15th February 2024. In his session, Mr.Amit discussed a wide range of topics, including perspectives on partnerships. He also discussed the approach, college students should adopt while making career decisions. Given his background in finance, he also conveyed knowledge on banking, investing, and money management.



*Glimpse of Alumni Meet*

**Extension Activity**

The students of Electrical Engineering department organized a joint extension activity at Zilla Parishad School, Village: Fetri, Nagpur on 23rd March 2024 under the aegis of IEEE St. Jt. Chapter (PELS) and Electrical Engineering Students' Association (EESA). The office bearers of IEEE Jt. Chapter introduced to the primary and secondary school students, the importance of electrical safety and conservation and simple measures that can be implemented by them and their families. Related videos and animations were also shown to the children.

The office bearers of EESA informed them a few techniques of self-defence and distinction between good touch and bad touch by others. Finally, goodies were distributed to all children. This event was coordinated by Dr. Vijaya Huchche and Dr. Gaurav Goyal. The headmistress of the school Mrs. Anita Dhoke and her staff welcomed the visiting team and extended full cooperation. Dr.Sanjay Bodkhe and I/C HoD Dr. U. B. Mujumdar congratulated the organizers and encouraged them to take up more extension activities for the benefit of the society.



*Glimpse of Extension Activity 1*          *Glimpse of Extension Activity 2*

**Electrical Premier League (EPL) - 2024**

The Electrical Premier League (EPL) 3.0, a thrilling box cricket league tournament organized by the Electrical Engineering Student Association (EESA), electrified on the 29th and 30th of March. This eagerly anticipated event brought together eight dynamic teams comprising more than 70-80 enthusiastic students from the electrical department, showcasing their talent.

The excitement began with the much-anticipated auction, held on the 23rd of March, where team owners strategically bid for players to assemble their dream teams. The auction witnessed spirited bidding wars and strategic manoeuvres as team owners vied to secure the best talent for their respective teams, setting the stage for an intensely competitive tournament.

Over the course of two action-packed days, there were cheers and applause as teams battled it out in thrilling matches characterized by fierce competition and sporting spirit. Each team exhibited exemplary teamwork, skill, and determination.

After a series of exhilarating matches, two teams emerged as finalists: the Power Hitters and the Resistive Renegades. The electrifying final match kept spectators on the edge of their seats as both teams displayed exceptional cricketing prowess and strategic brilliance. In a closely contested showdown, the Resistive Renegades emerged victorious, clinching the title of EPL 3.0 champions in a nail-biting finish.

The success of EPL 3.0 would not have been possible without the dedication and hard work of the organizing committee, volunteers, and participants who contributed to making the event a resounding success. Their passion and commitment to promoting camaraderie and sportsmanship within the electrical department exemplify the spirit of EESA and reflect the vibrant community that it represents.

In conclusion, EPL 3.0 stands as a testament to the spirit of sportsmanship, teamwork, and camaraderie fostered by EESA within the electrical department. The tournament not only provided an avenue for students to showcase their athletic abilities but also promoted a sense of unity and belonging within the community. As EESA reflects on the success of EPL 3.0, it remains committed to organizing inclusive and engaging events that enrich the student experience and strengthen the bonds of friendship and sportsmanship.

*Finalist Teams with Dr. U. B. Mujumdar, Dr. S. B. Bodkhe and Dr. G. N. Goyal*
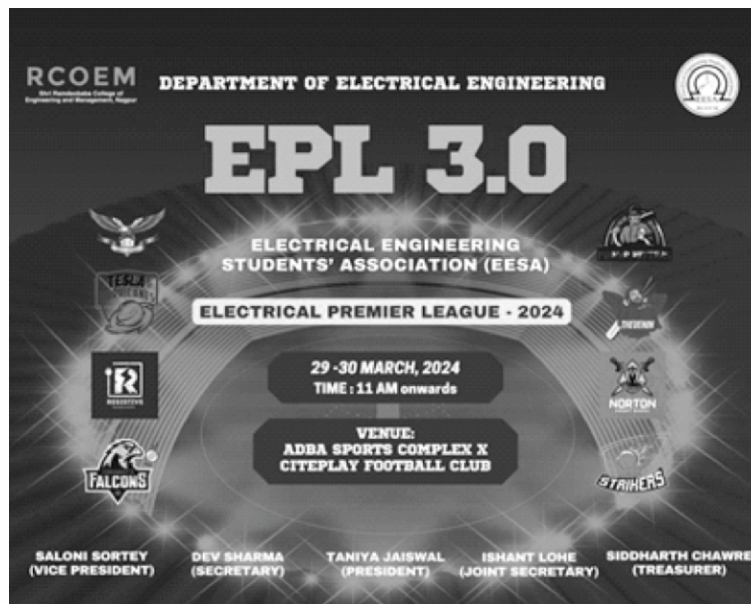
**Industry Visit**

The Department had organized an Industry Visit to Haldiram International Pvt Ltd on 9th February 2024 for the Sixth Semester students. The Industrial visit focused on three main sections of plant i.e. Plant automation section, Solar PV Power Plant and High Voltage auxiliary units. In the first part of visit, students visited the production lines for yellow lentils, whereby the complete food production process from raw lentils to the final product was exhibited. In second half, students visited the 1345 KW of PV plant and 33 kV Substation.



*Students proceeding for Industry Visit*

**Conference, STTP and Guest Lectures organized in Department**

Department has organised Guest lectures for the IV and VI semester students

| Topic | Speaker | Date |
|---|---|---|
| Preparing for Placement in Core Electrical Engineering | Mr. Parag Dandekar, consultant, Electrical and Automation Systems, Ex.Vice President (Electrical) Kallyni Steels, Pune. | 25th January 2024 |
| Vedic Mathematics | Mr. Avinash Naidu , | 05th February 2024 |
| Meet your illustrious alumni Aptitude (CAT) | Mr.Amit Rahalkar | 15th February 2024 |
| Power System Security | Er. Avinash Sadhu Ex. T and D Specialist, Neccon Power and Infra Ltd. Guwahati, Assam. | 23rd March. 2024 |
| Aptitude Development | Mr. Shubham Rathod, Faculty for LRDI at CL Nagpur | 23rd March. 2024 |

**Students' Corner**
**Toppers List**

**B.Tech (Electrical Engineering ) III Semester, Session 2023-24**

| SN | Name of the student | SGPA | CGPA |
|----|---------------------|------|------|
| 1 | Ritika  Mishra | 9.87 | 9.39 |
| 2 | Tanushree Yogesh Waratkar | 9.35 | 8.82 |
| 3 | Ishika Prakash Choudhary | 9.0 | 8.69 |
| 4 | Kammya Bhupesh Paradhi | 8.83 | 8.66 |
| 5 | Ayush Sanjay Hood | 8.43 | 8.4 |

**B.Tech (Electrical Engineering ) V Semester, Session 2023-24**

| SN | Name of the student | SGPA | CGPA |
|----|---------------------|------|------|
| 1 | Veena  Jawrani | 9.36 | 9.5 |
| 2 | Gaurav Yogendra Thakur | 9.0 | 9.4 |
| 3 | Praful Nandkishor Mishra | 9.16 | 9.37 |
| 4 | Gaurav Triveni Shukla | 9.04 | 9.34 |
| 5 | Pawan Jagdish Wath | 9.2 | 9.34 |

# Department of Biomedical Engineering

## Faculty Corner

**Awards received by Faculty of department**

(a) **Dr. Manish Bhaiyya,** Assistant Professor in the Department of Biomedical Engineering, has been granted fund of $ 20,000 to carry out the research project titled "Empowering Early Detection and Preventive Risk Based Management of Alzheimer Detection," from Mr. Richard Laguna, Founder & CEO, AvailDx INC, USA.

(b) **Dr. Jayu Kalambe** (Principal Investigator), Dr. Dinesh Rotake, Khushi Wankhade and Simran Siddiqui ( Co Principal Investigator) presented their project on the "Design and Fabrication of IDE(Integrated Electrode)based Biosensors for Leukaemia Detection"  in the "INUP-i2i Nanotech Hackathon 2023 contest"  at IIT Bombay and secured the 2nd position.

## Publications

**Prof. Anju Gupta** has published a paper titled  Sensing lead ions in water: a comprehensive review on strategies and sensor materials) in  Analytical Science, Springer publications , Analytical Sciences https://doi.org/10.1007/s44211-024-00547-1,SCI.

**Prof. Jitendra B. Zalke** published a paper titled "Facile chemiresistive biosensor functionalized with PANI/ GOx and novel green synthesized silver nanoparticles for glucose sensing"; Microchemical Journal ,Elsevier Publisher , https://doi.org/10.1016/j.microc.2024.110339  SCI

**J.A. Shrawankar** published a paper titled "Radio wave Propagation in Indian Semiurban and Rural Scenario: A case Study "; Second International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT 2024) , 22 - 23, March 2024

**Prof. Jitendra B. Zalke** published a paper titled "Green Synthesis of Conductive Porous Film and its Applicatopn on Scree-Printed Electrodes Used for Biomedical Application"; 3rd International Conference for Innovation in Technology (INOCON), 04-06 March, 2024

**Prof. Jitendra B. Zalke** published a paper titled "Enzymatic Chemiresistive Interdigitated Electrodes by Screen Printing Method and Functionalized with Novel Green Synthesized Nanoparticles for Detection of Glucose Concentrations"; 4th  International Conference on Micro/Nanoelectronics Devices, Circuits and Systems ( MNDCS-2024)), 29-31 January, 2024

**Prof. Jitendra B. Zalke** published a paper titled "Experimental Analysis of Optical Wave length for Noninvasive Measurment of Glucose"; Second International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT 2024) , 22 - 23, March 2024

**Prof. Jitendra B. Zalke** published a paper titled "Non-enzymatic glucose detection with screen-printed chemiresisstive sensor using green synthesised silver nanoparticle and multi-walled carbon nanotubes-zinc oxide nanofibers"; IOP, Nanotechnology, vol. 35, Number 6; SCI.

**Prof. Anju Gupta** presented and published a paper titled "IoT- Driven Holistic Aid System" indexed scopus , at 2nd International Conference on Futuristic Technologies organised by S.G.Balekundri Institute of Technology Shivabasava Nagar, Nehru Nagar, Belagavi-590010 Karnataka, India on Nov 24, 2023 - Nov 26, 2023.

**Prof. Jitendra B. Zalke** and Dr. Arpita Parakh presented and published a paper titled "Diagnostic Probes Designed for Detection of Mycobacterium Tuberculosis - An Insilico Approach" indexed scopus , at 2023 3rd International Conference on Innovative Sustainable Computational Technologies (CISCT), 08-09 September 2023

**Dr. Jayu Kalambe** presented and published a paper titled "Design and Fabrication of Interdigitated Electrode Based Biosensor for the Detection of Leukemia" indexed scopus , in 2023 International Conference on Emerging Techniques in Computational Intelligence (ICETCI), 21-23 September 2023

**Prof. Anju Gupta** presented and published a paper titled "Cancer Detection in lungs using image processing and liquid biopsy analysis" indexed scopus , at 2023 IEEE world conference on Applied Intelligence and Computing (AIC-2023) organised by Rajkiya Engineering College, Sonbhadra, India and Ashoka Institute of Technology & Management, Varanasi, India on July 29-30, 2023.

**Dr. Jayu Kalambe** presented and published a paper titled "Monitoring of blood pressure with video processing" indexed scopus , at 14th international conference on computing, communication and networking technologies (ICCCNT) organised by IIT – Delhi in association with IEEE Electronics Packaging Societyon July 6th - 8th, 2023.

**Prof. Jitendra B. Zalke** presented and published a paper titled "Power and Area Aware Bump Physically Unclonable Function" indexed scopus , at International Conference on Computer, Electronics and Electrical Engineering and Their Applications ( IC2E3-2023) organised by NIT Uttarakhand on 08th-09th June 2023

**Prof. Anju Gupta** published a paper titled "Graphene Oxide-Coated interdigitated electrode for selective detection of mercury ions self-assembled monolayer of mercaptosuccinic acid"; Chemical papers Springer publications; 11 August 2023

**Dr. Arpita Parakh** published a paper titled "Smartphone-Based Identification of Different Tissue Cells"; IEEE Sensors Letters (Volume: 7, Issue: 10, October 2023)

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

1. J.A. Shrawankar and Prof. Jitendra B. Zalke have attended a Second International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT 2024) , 22 - 23 March 2024 , organized by School of Physical and Applied Sciences, Goa University, Goa, India .

2. Prof. Jitendra B. Zalke have attended a 3rd International Conference for Innovation in Technology (INOCON), 04-06 March, 2024, organized by Sai Vidya Institute of Technology Bengaluru, India

3. Prof. Jitendra B. Zalke have attended a 4th International Conference on Micro/Nanoelectronics Devices, Circuits and Systems ( MNDCS-2024), 29-31 January, 2024, organized by NIT SilcharDepartmental Activities

### Parents Meet

The Parent - Teacher Meeting (PTM) held in the department on March 9th,2024 for IV and VI semesters was a resounding success, fostering fruitful collaboration between educators and parents. Throughout the session, parents had the opportunity to engage in insightful discussions with Dr. Jayu Kalambe, HOD and faculty members regarding their child's progress, strengths, and areas for improvement.

**Guest Lectures organized in Department :**

(a) Guest lecture on "Industry and Research Perspective" by Dr. Prakash Rewatkar lead as RnD Engineer, at Avient Cooperation, Pune was organised for II and III year students on 10/02/2024. Various key points were discussed with the students required to be industry ready. He motivated the students to research and introduced certain key points required to present the work as well.





(b) On January 25th 2024 , the department hosted a guest lecture by Ms. Sangeeta Palekar, CEO, Biospectronics. She delved into the Pre-requisite of Research and explained to the students about research papers and the database used to search the papers with the process of citations.



(c) On the occasion of National Youth Day, on 12/01/2024, the Department of Biomedical Engineering had the privilege of hosting a guest lecture by Dr. Nitesh Singh, Sangathan Mantri, Bhartiya Sikshan Mandal organised by Biogenesis Student society with a motive to inculcate the thoughts of Swami Vivekananda in taking life decisions.

It commenced with a captivating introduction, featuring a short story or anecdote. This storytelling approach engaged the audience from the outset, making the lecture more relatable and interesting. The lecture primarily revolved around key topics like the life journey of Vivekananda and how he introduced Indian culture in all over the world with his effective thoughts and motivated the youth to be grounded and attach to the roots.

(d) A technical lecture was organised by Biogenesis students society and IEEE EMBS student chapter titled "Modern Anesthesia" on oct.13,2023. Guest speaker was Dr. Sachin S. Jambhorkar, MBBS, MD (Anaesthesiology), an accomplished Academic Head and Senior Consultant Anaesthesiologist at the National Cancer Institute, Nagpur,

Dr. Jambhorkar's rich background and extensive experience in the field of anaesthesiology provided the audience with valuable insights into the world of modern anesthesia and its significance in medical practice.

## Students' Corner
**Toppers List :**

| S.No. | Name of Student | Percentage/ CGPA |
|---|---|---|
| III Semester | | |
| 1 | Isha Subhash Chaudhari | 9.1 |
| 2 | Anjali Ajay Wahane | 9.0 |
| 3 | Rahul Vijay Motwani | 8.99 |
| V Semester | | |
| 1 | Bidipta Rana | 10 |
| 2 | Sharvani Satish Nandgaonkar | 10 |
| 3 | Simran Nayim Siddiqui | 9.67 |
| 4 | Celina Rout | 9.6 |
| 5 | Charvi Nitesh Sharma | 9.6 |
| VII Semester | | |
| 1 | Devashree Naresh Sakharkar | 9.73 |
| 2 | Heena Naushad Bandali | 9.21 |
| 3 | Nikita Jeevat Kewalramani | 9.16 |

**Student Achievements (Not More Than 300 Words)**

(a) Simran Siddiqui and Khushi Wankhade from the 3rd year Biomedical department presented their project on the "Portable Urine Analyzer" in the "Udyojika Swavalamban Mela, Startup Competition: Innovation with Sustainable Development Goals." and secured the 2nd runner-up position.

(b) Simran Kedia and Janhavi Banubakade presented on the topic 'Diabetic Eye Health: AI Diagnosis' at '6th INAE - SERB - GITAM YOUTH CONCLAVE 2023' in Vishakapatnam on 04 November 2023 at GITAM college Vishakapatnam and got Victory against 13 states and 2 union territories with 150 teams across India in women exculsive poster presentation!  with a cash prize of Rs.10,000.



(c) Anushree Jain from 3rd year secured first position in RC Craft Challenge in Technoxian 2023 by AICRA (All India Council for Robotics and Automation) held at Noida Indoor Stadium, Noida NCR .



*Students in Higher Studies. (Not More Than 300 Words)*

## Placement of Final Year Students

| Sr No. | Name of Student | Company |
|---|---|---|
| 1 | Samidha Nayak | Acmegrade |
| | | MyCaptain |
| 2 | Janhavi Banubakade | Acmegrade |
| | | Horiba India Pvt. Ltd. Nagpur |
| 3 | Renuka Kadu | Acmegrade |
| | | Jaro Education |
| 4 | Riddhi Bhute | Acmegrade |
| 5 | Nikita Kewalramani | Acmegrade |
| | | MyCaptain |
| | | Horiba India Pvt. Ltd. Nagpur |
| 6 | Kripa Marothi | Acmegrade |
| | | MyCaptain |
| 7 | Heena Bandali | Acmegrade |
| 8 | Simran Kedia | MyCaptain |
| 9 | Renuka Barde | MyCaptain |
| 10 | Sahil Gulghane | Unthinkable solution daffodil software |
| 11 | Samidha Halmare | Techwalnut |
| 12 | Pooja Jain | Techwalnut |
| 13 | Devashree Sakharkar | Horiba India Pvt. Ltd. Nagpur |
| 14 | Dhruv Vyas | Horiba India Pvt. Ltd. Nagpur |
| 15 | Harshal Saratkar | Horiba India Pvt. Ltd. Nagpur |
| 16 | Jyoti R. Yadav | Horiba India Pvt. Ltd. Nagpur |
| 17 | Mrunmayee S. Sonurkar | Horiba India Pvt. Ltd. Nagpur |

## Department of Information Technology

### Faculty Corner

**Guest Lectures taken by faculty**

- Dr. Purshottam J. Assudani delivered a "Career Masterclass session" on 28th March 2024 for Indian Institute of Technology (IIT) Guwahati.

- Dr. Purshottam J. Assudani delivered a lecture on "Discover the Anatomy of Cloud Computing" on 20th March 2024 for Caltech (California University), USA, (Ranked 2nd in the world).

- Dr. Purshottam J. Assudani delivered a lecture on "Program Preview-IIT Guwahati Cloud + DevOps" on 24th January 2024 for Indian Institute of Technology (IIT) Guwahati.

- Dr. Purshottam J. Assudani delivered a "Program Preview Session" on 28th February 2024 for Caltech (California University), USA.

**Publications**

- Dr. P. D. Adane presented a paper titled "Sentiment Analysis of Product Reviews from Amazon, Flipkart, and Twitter" in the 8th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2023), which has been published in Lecture Notes in Networks and Systems, Springer.

- Prof. C. B. Thaokar has published a paper titled "N-Gram Based Sarcasm Detection for News and Social Media Text Using Hybrid Deep Learning Models" in the SN Computer Science journal, ISSN: 2662-995X, Scopus Indexed.

- Dr. Rakesh K. Kadu presented a paper titled "Remotely Managed IoT Based Smart Irrigation System" in the 4th International Conference on Emerging Systems and Intelligent Computing (ESIC- 2024), organized by School of Computer Engineering, KIIT Deemed-to-be University, Bhubaneshwar, India, held from 9th to 10th February 2024

- Dr. Purshottam J. Assudani and Dr. Rakesh K. Kadu presented a paper titled "Testing Resiliency of AWS Services using the Concept of Chaos Engineering" in the 5th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2024), organized by Department of Computer Science and Engineering, Francis Xavier Engineering College, Tirunelveli, India, held from 11th -12th March 2024.

- Prof. Omesh Wadhwani presented a paper titled "An IoT and Random Forest DT-Based Early Enhanced Forest Fire Detection in Large and Small Targets" in the 3rd International Conference for Innovation in Technology (INOCON), organized by SVIT, Bengaluru, held from 4th -6th March, 2024.

**STTP/FDP/other Training Attended by Faculty**

- Dr. Rakesh Kadu has attended a Faculty Development Program on Artificial Intelligence and Generative Models from 15th - 19th January 2024, organized by Department of Information Technology, Vishwakarma Institute of Technology, Pune.

- Prof. Pallavi Meshram has attended a Faculty Development Program on Data Processing and Data Analysis with Use cases & Research directions from 2nd – 4th January 2024 organized by Hi Learn Edutech Institute, Vijapur, Karanataka.

- Prof. Pallavi Meshram has attended a Faculty Development Program on Result Oriented Teaching from 05th -11th January 2024 organized by Hi Learn Edutech Institute, Vijapur, Karanataka.
- Prof. Pallavi Meshram and Prof.Omesh Wadhwani have attended a Faculty Development Program on Outcome based Education and Accreditation from 08th -12th January 2024 organized by NITTTR, Bhopal.
- Prof. Jaya Nanwani has attended a Faculty Development Program on Python for Data Science from Jan-Feb 2024 organized by NPTEL.
- Prof. Omesh Wadhwani has attended a Faculty Development Program on "Machine Learning with Python" from 18th – 22nd January 2024 organized by E &ICT Academy, IIT Kanpur( A Joint initiative of MeitY & IIT Kanpur).

## Departmental Activities
### Consultancy or any other projects undertaken

- Dr. Purshottam J. Assudani has delivered a corporate training at PnB Metlife, Gurgaon from 12-15 March 2024 on "Ms Azure Fundamentals (AZ-900) and Ms Azure AI Fundamentals (AI-900)" for the employees of PnB Metlife. The Consultancy amount generated for the same is around Rs. 1.15 Lacs.

### Parents Meet and Events

- An Industrial Visit to ISRO Regional Remote Sensing Centre, Nagpur was arranged by the department for Second year students on 7th March 2024. Dr. R. K. Kadu and Dr. A. V. Chandak along with 60 students visited the company.
- The Parent Teachers meet was organized by the Department of Information Technology on 9th March, 2024 for IV, VI and VIII semester IT. The academic Performance of the students was discussed with the Parents. Dr. P. D. Adane, Head of the Department took the feedback and suggestions of the parents for overall improvement of the department.

## Students' Corner
### Conference, STTP and Guest Lectures organized in Department

| S.No. | Conference/STTP/Guest Lecture organised | Speaker (with Affiliation) | Duration | Date |
|---|---|---|---|---|
| 1 | Expert talk on Generative AI | Mr. Rama Voruganti, Director, Google Cloud, India | 02 hours | 18th March 2024 |
| 2 | Expert lecture on The Billion Dollar Talk | Mr. Vikram Labhe, Founder and CEO, MELOOHA | 02 hours | 14th February 2024 |
| 3 | Guest Lecture on ML Op and Generative AI | Ms. Anuja Fole Lead Data Scientist Katonic.AI | 01 hour | 03rd February 2024 |
| 4 | Guest Lecture on Life Skills | Mr. Vinay Chawala Founder, Enlighten the Souls | 01 hour | 03rd February 2024 |
| 5 | Guest Lecture on Design Thinking | Ms. Manali Pingley National Grants Manager, Seva International | 02 hours | 21st March 2024 |

| 6 | Course Conduction on ITT2001 Object Oriented Programming | Mr. Ajay Karare, Sr. Lead Engineer KIPI.BI | 10 Hours | 4th – 12th March 2024 |
|---|---|---|---|---|
| 7 | Course Conduction on Mobile Apps Development | Mr. Shantanu Patil Associate Technologist Kratin Software Solutions Pvt. Ltd | 10 Hours | 23rd March – 06th April 2024 |

**Student Achievements**

| S. No. | Date of event | Name of Event and Place | Name of Students | Sem | Details of Activity | Recognition/ Awards Received, if any |
|---|---|---|---|---|---|---|
| 1 | 25-28 Jan 2024 | COMP-EX' 2024 | Neha Sharma | VI | Cyber Security Hackathon | Participated |
| 2 | 25-28 Jan 2024 | COMP-EX' 2024 | Nipun Anand | VI | Cyber Security Hackathon | Participated |
| 3 | 23 Feb 2024 | Veermatajuabai Technological institute | Neha Sharma | VI | Capture The Flag | Participated |
| 4 | 25-28 Jan 2024 | Veermatajuabai Technological institute | Nipun Anand | VI | Capture The Flag | Participated |
| 5 | 22-24 March 2024 | IIT Madras | Aryan Jain | VI | SDGs Hackathon | Participated |
| 6 | 22-24 March 2024 | IIT Madras | Neelam Kolhe | VI | SDGs Hackathon | Participated |
| 7 | 22-24 March 2024 | IIT Madras | Komal Wankhade | VI | SDGs Hackathon | Participated |
| 8 | 22-24 March 2024 | IIT Madras | Awadhesh Gosewade | VI | SDGs Hackathon | Participated |
| 9 | 9- 11 Feb 2024 | Karnavati Universty, Gujarat | Muskan Jaiswal | VI | 36hrs Hackathon | Participated |
| 10 | 9- 11 Feb 2024 | Karnavati Universty, Gujarat | Nupur Hada | VI | 36hrs Hackathon | Participated |
| 11 | 9- 11 Feb 2024 | Karnavati Universty, Gujarat | Vedarth Ambilkar | VI | 36hrs Hackathon | Participated |
| 12 | 9- 11 Feb 2024 | Karnavati Universty, Gujarat | Janhavi Itankar | VI | 36hrs Hackathon | Participated |

| 13 | 9- 11 Feb 2024 | KarnavatiUniversty, Gujarat | Manas Saha | VI | 36hrs Hackathon | Participated |
| 14 | 9- 11 Feb 2024 | KarnavatiUniversty, Gujarat | Ayan Sheikh | VI | 36hrs Hackathon | Participated |
| 15 | 9- 11 Feb 2024 | KarnavatiUniversty, Gujarat | Naman Sarda | VI | 36hrs Hackathon | Participated |
| 16 | 9- 11 Feb 2024 | KarnavatiUniversty, Gujarat | Syed Shabiul Husain | VI | 36hrs Hackathon | Participated (C Pending) |
| 17 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Muskan Jaiswal | VI | Hack IT Sapiens | Participated |
| 18 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Nupur Hada | VI | Hack IT Sapiens | Participated |
| 19 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Prathmesh Gaidhane | VI | Hack IT Sapiens | Participated |
| 20 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Gaurav Bankar | VI | Hack IT Sapiens | Participated |
| 21 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Naman Sarda | VI | Hack IT Sapiens | Participated |
| 22 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Ayan Sheikh | VI | Hack IT Sapiens | Participated |
| 23 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Manas Saha | VI | Hack IT Sapiens | Participated |
| 24 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Arnav Joglekar | VI | Hack IT Sapiens | Participated |
| 25 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Vinay Rewatkar | VI | Hack IT Sapiens | Participated |
| 26 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Anamika Kumbhare | VI | Hack IT Sapiens | Participated |
| 27 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Komal Wankhade | VI | Hack IT Sapiens | Participated |
| 28 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Neelam Kolhe | VI | Hack IT Sapiens | Participated |
| 29 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Aryan Jain | VI | Hack IT Sapiens | Participated |
| 30 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Aryan Mishra | VI | Hack IT Sapiens | Participated |
| 31 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Amey Bhoyar | VI | Hack IT Sapiens | Participated |
| 32 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Shubham Galande | VI | Hack IT Sapiens | Participated |
| 33 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Sanskar Wankhade | VI | Hack IT Sapiens | Participated |
| 34 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Gargi Singh | VI | Hack IT Sapiens | Participated |
| 35 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Shashwat Mishra | VI | Hack IT Sapiens | Participated |
| 36 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Janhavi Itankar | VI | Hack IT Sapiens | Participated |

| 37 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Vedarth Ambilkar | VI | Hack IT Sapiens | Participated |
|---|---|---|---|---|---|---|
| 38 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Sharvari Inamdar | VI | Hack IT Sapiens | Participated |
| 39 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Yashika Rahangdale | VI | Hack IT Sapiens | Participated |
| 40 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Vidhi Rathi | VI | Hack IT Sapiens | Participated |
| 41 | 29-31 March 2024 | Poornima College of Engg, Jaipur | Yash Ghoderao | VI | Hack IT Sapiens | Participated |
| 42 | 29-31 March 2024 | Indore Hackhorizon | Gaurav Bankar | VI | Wittyhacks -4.0 | Participated |
| 43 | 29-31 March 2024 | Indore Hackhorizon | Ayan Sheikh | VI | Wittyhacks -4.0 | Participated |
| 44 | 29-31 March 2024 | Indore Hackhorizon | Nupur Hada | VI | Wittyhacks -4.0 | Participated |
| 45 | 29-31 March 2024 | Indore Hackhorizon | Naman Sarda | VI | Wittyhacks -4.0 | Participated |
| 46 | 29-31 March 2024 | Indore Hackhorizon | Manas Saha | VI | Wittyhacks -4.0 | Participated |
| 47 | 29-31 March 2024 | Indore Hackhorizon | Syed Shabiul Hussian | VI | Wittyhacks -4.0 | Participated |
| 48 | 29-31 March 2024 | Indore Hackhorizon | Sejal Jagtap | VI | Wittyhacks -4.0 | Participated |

**Any other activity (s) :**

**Beyond Academics :**

- 64% of eligible students from 2023-24 Batch got placed through campus drive.
- Top IT companies like Porter, Nutanix, Cisco, IBM, Accenture, Persistent, C&R Software, Cloud4C, IBM vConstruct selected 44 students from the Department.
- 51 students went for Full Time Internship in VIII semester.
- The Internship details of department for the session 2023-24 are as follows :

| Sr.No | Name of Student | Internship Company | Internship Stipend per Month |
|---|---|---|---|
| 1 | Aditi Rakesh Tiwari | Seimens | 15,000 |
| 2 | Arya Rakesh Mukkirwar | Accenture | 16,000 |
| 3 | Avanti Pramood Dhiran | Fendahl | 50,000 |
| 4 | Chinmayee Sonboir | Z Transform | 7,000 |
| 5 | Divya Dhage | HSPM Solutions LLP | 5,000 |
| 6 | Kruti Manoj Vadera | Accenture | 16,000 |
| 7 | Manimukta  Tiwari | Oakland System | 10,000 |
| 8 | Megha Shivhare | C & R Software | 25,000 |
| 9 | Nirja Dhawal Jaurkar | C & R Software | 25,000 |
| 10 | Pranjal Gaurav Ostwal | Accenture | 16,000 |
| 11 | Shruti Pankaj Kallurwar | Harrier Information Systems Pvt. Ltd. | 10,000 |
| 12 | Srushti Satish Kamdi | Accenture | 16000 |
| 13 | Sushmita Manik Mahapatra | Porter | 80,000 |
| 14 | Abhinashkumar Shyamnarayan Mehta | Nedient Technology Pvt. Ltd. | 10000 |
| 15 | Abhishek Pramod Badar | Xeo Information Systems | 15000 |
| 16 | Aditya Kumar Gupta | vConstruct | 21,000 |
| 17 | Akshit Rajesh Bobde | Accenture | 16,000 |
| 18 | Amit Manoj Yadav | Oakland System | 10,000 |
| 19 | Anand Upadhyaya | Accenture | 16,000 |
| 20 | Arsh Dilip Ghaiwat | 6Simplex | 5,000 |
| 21 | Arshad Aqeel Ahmed Khan | Microsys | 10,000 |
| 22 | Atharva Suresh Baheti | Accenture | 16,000 |
| 23 | Bharat Shukla | The GoodGame Theory | 11,000 |
| 24 | Devang Niraj Padamwar | Ace Tech Ventures | 10,000 |
| 25 | Gourav Rajendra Rushiya | TCS | Nil |
| 26 | Hardik Vimlesh Pandey | Accenture | 16,000 |
| 27 | Harsh Rajesh Singh | Persistent | 10,000 |
| 28 | Himanshu Harshwardhan Hiware | C&R Software | 25,000 |
| 29 | Hrushikesh Dilip Dagwar | TCS | Nil |
| 30 | Jatin Vilas Kapgate | Accenture | 16,000 |

| 31 | Lucky Ramshankar Mishra | Accenture | |
|----|----|----|----|
| 32 | Mayank Ajitkumar Pandey | SkillMine Technology | 15,000 |
| 33 | Mohit Milind Darvekar | Cisco | 98,000 |
| 34 | Mohit Rajendra Malghade | Z transform | 7,000 |
| 35 | Nihar Shyam Malani | Acuitas 360 | 15,000 |
| 36 | Niraj Bharat Deshpande | Accenture | 16,000 |
| 37 | Pranav Keshao Kumbhalkar | Accenture | 16000 |
| 38 | Pranay Ashok Jain | innovapptive | 25000 |
| 39 | Pratham Kishor Gangwal | Elioratechno | 10500 |
| 40 | Pratik Suresh Pimpalkar | Siemens | 15000 |
| 41 | Rajat Shrirang Kale | Nutanix | 50,000 |
| 42 | Rishi Ojha | 6Simplex | 5,000 |
| 43 | Rubal Suraj Singh | Accenture | 16,000 |
| 44 | Saurabh Shrikant Nakade | Accenture | 16,000 |
| 45 | Shivam Kamlesh Patle | TCS | Nil |
| 46 | Shrihari Janardhan Gawande | Happy Gaming | 10,000 |
| 47 | Swayam Rajesh Agrawal | Accenture | 16,000 |
| 48 | Tanmay Parag Mukewar | Accenture | 16,000 |
| 49 | Vedansh Sharad Dubey | Astrovers Technology Pvt. | 15,000 |
| 50 | Vidit Sanjaykumar Agrawal | Nedient Technology Pvt. Ltd. | 10,000 |
| 51 | Vinay Vilas Dongre | Accenture | 16,000 |

## Department of Mechanical Engineering

### Faculty Corner

**Guest Lectures taken by faculty**

1. Dr. Pranjali Deole delivered a guest lecture on "Condition Monitoring in Manufacturing at Mechanical Engg. Dept., Suryoday College of Engineering & Technology, Nagpur on 29th January 2024

2. Dr. Pranjali Deole delivered a guest lecture on "Condition Monitoring in Manufacturing at Mechanical Engg. Dept., Suryoday Polytechnic, Nagpur. on 29th January 2024.

### Publications

1. Dr. G.R. Nikhade alog with P. Khandelwal, Pravinkumar Sonsare, Kishore Yadlapati, SSSR Sarathbabu Duvvuri, published a Journal paper titled"Crack-JPU – A crack segmentation method using atrous convolution", Measurement : Sensors, Volume 32, 2024,101080, ISSN 2665-9174, https://doi.org/10.1016/j.measen.2024.101080. (Publisher-Elsevier)

### Patent Granted

1. A patent on "Device for dispensing an article" has been granted to Dr. Pranjali Deole on 15/03/2024.

2. A patent on "Automated soap base melting " has been granted to Dr.Pranjali Deole on 22/03/2024.

3. A patent on Sugarcane Juicer Powered By A Multi-Station Gym Puller 404406-001  by Dr Dr. Sandeep Joshi, Kshitij Thote,Prakshal Lunawat and Gaurav Dhoot has been granted 03/03/24

4. A patent on Pneumatic Rammer has been granted to Dr. Vishal Shukla on  27/02/24

5. A patent on Rangoli Stencil With Dispenser  has been granted to Dr. Yeshwant Sonkhaskar, Prachi Rane, Ram Bhute on 02/02/24

6. A patent on Rear View Mirror has been granted to Dr. Sandeep Joshi, Prof. Sujit Patil, Mayank Kumar, Prathamesh Wandile, Ayush Namdev, Ayush Rathi on 25/01/24

7. A patent on A Rail-Guided Fall Arresting Device has been granted to Dr. Vishal V. Shukla on 19/01/24

8. A patent on Desert Cooler With Heat Exchanger has been granted to Prof. Sachin Deshmukh and Shrikant Kaithwas on 19/01/24

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

1. Dr. Pranjali Deole has attended an online one week Ïnternational workshop on " 3-D printing and additive manufacturing insights" OIW3PAMI 2024, organized by NIT Mizoram from 12 March 2024 to 16th March 2024.

2. Dr. A K Jha and Dr. G R Nikhade attended an online workshop entitled "Advanced Materials Characterization (AMC-2024)" organized by Malaviya National Institute of Technology (MNIT) Jaipur from Mar 19-23, 2024

3. Dr. Ashish D. Urade attended a  one week faculty Development Program on 'Advances in Materials Technology for Next generation Manufacturing' Conducted during 1-5 Feb 2024  organised by Mechanical Engineering Department at Ballari Institute of Technology and Management, Ballari, Karnataka, India

4.   Dr. Ashish D. Urade attended a  one week International faculty Development Program on 'Global Conversations in Mechanical Engineering: Bridging Innovation and Sustainability'  Conducted during 19-23 Feb 2024  organised by Mechanical Engineering Department at Madanapalle Institute of Technology and Science,  Andhra Pradesh, India.

5.   Dr. A K Jha, attended a one-day workshop on Technical Writing for young faculty organized by IQAC, RCOEM on March 23, 2024.

6.   Dr. S. R. Kulkarni attended a  2 Week Faculty Development Program on "Entrepreneurship Essentials" Conducted during 22 January 2024 - 6th February 2024 at Chitkara University , Punjab under the aegis of NSTEDB, Department of Science & Technology.

7.   Dr. S. R. Kulkarni attended a  2 Day Mentors' Training Program conducted by Bureau of Indian Standards ( BIS) on 5th and 6th March 24  at Hotel Tuli Imperial Nagpur.

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

A Parent - Teacher Meet was organized by the Department of Mechanical Engineering on 17th February 2024 for the Parents of VIII semester Students  and on 9th March 2024 for the Parents of IV and VI semester Students. The meeting was chaired by Dr. V. V. Shukla, the Head of Mechanical Engineering Department. Around 30 parents actively participated in the meet.

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

| S. No. | Conference/STTP/Guest Lecture organised | Speaker (with Affiliation) | Duration | Date |
|---|---|---|---|---|
| 1 | Guest Lecture on Career Planning | Mr. Aditya Chalpe, Customer Experience Manager, Darwin  Box, Hyderabad | 1 Hr | 23.01.24 |
| 2 | Guest Lecture on What Comes After Industry 4.0 | Dr. Tim Van Erp, Sr Lecturer, Flinders University Australia | 1 Hr | 13.02.24 |
| 3 | Guest Lecture on Career Opportunities in Higher Studies | Dr. Mrs. Indu Mazumdar, Industry Institute Coordinator, NADP, Nagpur | 1 Hr | 19.03.24 |

# Department of Chemistry

## Faculty Corner

### Awards received by Faculty of department

1. Dr. S. S. Butoliya received Best Performance Award in International Analytical Science Congress February 22-24, 2024 Organised by VNIT, JNARDDC and Co-organised by ISAS and RCOEM, Nagpur.

2. Dr. S. M. Meshram received Award of Encouragement for Poster presentation on topic, "Role of aliphatic Biodegradable polyester in the scaffold: A Review in International Analytical Science Congress February 22-24, 2024 Organised by VNIT, JNARDDC and Co-organised by ISAS and RCOEM, Nagpur.

3. Dr. C. P. Pandhurnekar received Award of Appreciation in International Analytical Science Congress February 22-24, 2024 Organised by VNIT, JNARDDC and Co-organised by ISAS and RCOEM, Nagpur.

4. Dr. S. R. Mudliar received Award of Appreciation in International Analytical Science Congress February 22-24,2024 Organised by VNIT, JNARDDC and Co-organised by ISAS and RCOEM, Nagpur.

5. Dr. P. A. Mangrulkar received Award of Appreciation in International Analytical Science Congress February 22-24,2024 Organised by VNIT, JNARDDC and Co-organised by ISAS and RCOEM, Nagpur.

6. Dr. M. V. Joshi received Award of Appreciation in International Analytical Science Congress February 22-24, 2024 Organised by VNIT, JNARDDC and Co-organised by ISAS and RCOEM, Nagpur.

## Publications

1. Dr. A. V. Bharati has published a paper titled, Tunable emission and energy transfer of Sm3+/Eu3+ activated/ co activated Mg21Ca4Na4(PO4)18 phosphors for warm light emitting diodes and display applications in Journal of Optics with ISSN 2040-8986, (Scopus/SCI/ WoS)

2. Dr. C. P. Pandhurnekar has published a paper titled Recent progress in the mitigation of nanomaterials via the biosynthetic method of plant extract in AIP Conference Proceedings with ISSN 1551-7616, Volumn2974, Issue 1. (Scopus/SCI/SSCI/WoS/Any other)

3. Dr. C. P. Pandhurnekar has published a paper titled Recent advances in the rare earth metal doped nanomaterials and their applications in biomedical imaging techniques in AIP Conference Proceedings with ISSN 1551-7616, Volumn2974, Issue 1. (Scopus/SCI/SSCI/WoS/Any other)

## STTP/FDP/other Training Attended by Faculty

1. Dr. Sanjogta Meshram successful presented her research poster on topic, "Role of aliphatic Biodegradable polyester in the scaffold:A Review" On 21/02/24 during the International Analytical Science Congress, held at VNIT from 21/02/24 to 23/02/24. International Analytical Science congress 2024 was organised by VNIT in association with Shri Ramdeobaba College of Engineering and Management, Nagpur and Jawaharlal Nehru Aluminium Research Design and Development center, Nagpur.

2. Dr. S. R. Mudliar presented research paper on "Sorption of Copper from waste water by various forms of modified activated carbon" in 8th International Conference on Recent Advances in Material Chemistry ICRAMC-2024 organised by SRM institute of Science and Technology, Tamilnadu, during15-17 Feb 2024.

## Departmental Activities
### Conference, STTP and Guest Lectures organized in Department

Chemistry department has co-organised the conference, "International Analytical Science Congress (ISAS)-2024" with Indian Society of Analytical Scientists (ISAS), Visvesvaraya National Institute of Technology, Nagpur (VNIT), and Jawaharlal Nehru Aluminium Research Development and Design Centre JNRADDC, Nagpur during Feb-22-24, 2024 held at VNIT and JNARDDC, Nagpur.

Inaugural function is graced by the presence of the dignitaries from all participating institutions. Dr. Sarvashree B. Sarvanan, the Director of the Atomic Minerals Directorate for Exploration and Research (AMD), Dr. Pramod Padole, the Director of Visvesvaraya National Institute of Technology (VNIT) and Dr. R. S. Pande, the Principal of Shri Ramdeobaba College of Engineering and Management (RCOEM) inaugurated the conference.

The conference had 10 Technical sessions delivered by more than 30 Invited speakers all over the globe. Around 200 participants actively participated in oral and poster presentation under the thematic umbrella "Analytical Sciences and Technologies: Futuristic Trends for Energy, Environment, and Sustainable Development".

Chief Guest for Valedictory function was, Dr. Kinsukh Dasgupta, Scientific Officer and Head of the Advanced Carbon Materials Section in the Geology and Atomic Minerals Division (G & AMD) of the Materials Group at BARC, Mumbai and Guest of Honour was Dr. Anupam Agnihotri, the Director of Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC).

Dr. A. V. Bharati, HOD Chemistry Dept. was convener for this conference; Dr. C. P. Pandhurnekar worked as co-convener, and Dr. S. M. Meshram, Dr. S. R. Mudliar, Dr. S. S. Butoliya, Dr. P. A. Mangrulkar and Dr. M. V. Joshi were co-ordinators for the same.

**Pictures: Glimpses of Conference : "International Analytical Science Congress (ISAS)-2024"**

**Any other Activity**

Dr. Suraj Butoliya was invited as Judge for National Science Day Poster competition at Laxminarayan Innovation Technological University, Nagpur on 28th February 2024.



*Dr. Butoliya felicitated at LITU on the occasion of National Science Day*

# Department of Mathematics

## Faculty Corner
### Publications

1. Dr. R. G. Ghumde and Dr. P. O. Bagde has published a paper titled On Strongly r-Precious Rings (Topic) in Palestine Journal of Mathematics (Journal Name) with ISSN 2219-5688, Vloumn 12, 79-84, Issue, Scopus (Scopus/SCI/SSCI/WoS/Any other).

2. Dr. A. R. Lalke has published a paper titled 'Cosmic dynamics with late-time constraints on the parametric deceleration parameter model' (Relativistic Cosmology) in European Physical Journal Plus (Journal Name) with ISSN 2190-5444, Vloumn 139, 228, Issue , SCIE (Scopus / SCI / SSCI / WoS / Any other

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

1. Dr. R. G. Ghumde have attended FDP and successfully completed a course Matrix Computation and its applications from 01/07/2023 to 31/10/2023 organized by NPTL.

2. Dr. Nikhil M. Hulke have attended 10 hours internship on python from 11/12/2023 to 21/12/2023 organized by Pantech Solutions.

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

1. Dr. Nikhil M. Hulke organised a guest lecture for the fourth semester students of cyber security on 6th March 2024. Dr. Sourav Pradhan, Assistant Professor, Department of Mathematics, VNIT Nagpur was the guest speaker who delivered a lecture on applications of probability and queuing theory in security systems.

2. Dr. Nikhil M. Hulke organised a guest lecture for the cyber security branch on 16th March 2024. Dr. Jatin Wahane, Rocket Scientist, ISRO Bangalore was the guest speaker who interact with students on cyber security innovations and ecosystems.

## Department of Humanities

### Faculty Corner
**Guest Lectures taken by faculty**

1. Prof. Pratishruti Singh Agarwal was invited to conduct a 10-day Certificate Course in 'English Vocabulary Development' for undergraduate students at Dr. S.C.Gulhane Prerna College of Commerce, Arts and Science from 23rd January 2024 to 6th February 2024.

2. Dr. Vinod Asudani delivered a lecture on disability discourse in Literature on 8th February 2024 at Rani Laxmibai College Bhopal.

3. Dr. Vinod Asudani delivered a lecture on career guidance on 12th February 2024 at R.K.Talreja College Ulhasnagar.

4. Prof. Pratishruti Singh Agarwal was invited as a judge on 4th March 2024, for the event 'Student of the Year' at Abhyudaya, the annual college fest of Shri Mathuradas Mohta Science College, Nagpur.

### Publications

1.1 Dr. Monika R. Seth and Dr. V.H. Asudani have published a book chapter titled, "The Role of Digital Technology and Education of Visually Challenged "in the edited book Transforming Education: Exploring Emerging Technologies with ISSN 78-81-970308-1-9, published by Kunal books, New Delhi.

1.2 Prof. Pratishruti Singh Agarwal presented a paper titled 'Theory and Praxis of Gender Equality and Gender Sensitization: Re-reading Gandhi' at ICSSR Sponsored 2-day National Conference on Social Sensitization and Youth Empowerment, organized by the Department of Humanities and Social Sciences, VNIT Nagpur, held on 19th and 20th January 2024.

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

Dr. Akanksha Deshpande attended the One Week Online National Level Faculty Development Program on "Leadership Odyssey: Navigating the Future in BANI World." Organized by Career Development Cell, Gokul Global University, Siddhpur, Gujrat from February 28th to 5 March 2024.

### Departmental Activities

Dr. Deepshikha Mehra, HoD Humanities, organised a trip for the students of Nature Camp, to Pench Tiger Reserve from 14th March to 17th March.

### Any other activity(s) :

1. Dr. Monika R. Seth and Dr. V. H. Asudani, presented a paper entitled, "Embracing Diversity: Catalyst for Social Harmony in Contemporary Society" in a two-day National Conference organised by the Department of Humanities and Social Sciences, VNIT, Nagpur on 19th and 20th January 2024.

2. Dr. V. H. Asudani was invited to participate in All India Kavi Samelen organised by Sindhi Academy, Delhi, Govt. of Delhi on 21st January 2024.

3.  Dr. V. H. Asudani was invited to participate in State Level Kavi Samelen organised by Maharashtra Sindhi Sahitya Academy, Govt. of Maharashtra at Ulhasnagar on 10th February 2024.

4.  Dr. V. H. Asudani was invited to participate in the Gateway Literary Festival at Mumbai on 1st and 2nd March 2024.

5.  Dr. V. H. Asudani was conferred with the prestigious Sahitya Academy award for the year 2023, consisting of 1lakh rupees and a Bronze Plaque in the award presentation ceremony held at Ravidrabhavan, New Delhi on 12th and 13th March 2024.

6.  Dr. Akanksha Deshpande has published a design patent titled "Turtle Shaped Paper Weight Cum Dampening Sponge.

# Department of Physical Education

## Sports Activities
### RTMNU All India Inter University

The Students of RCOEM excelled in the West Zone Championship and were selected in for the All India Inter University Championship. The Following student's from RCOEM were selected for the same.

| Sr. No. | Game | Name | Branch | Year | Date | Venue | Position |
|---|---|---|---|---|---|---|---|
| 1 | Chess (W) | Tanya Pandey | EC | III | 23rd – 26th January, 2024. | Marwadi University, Rajokt | Participation |
| 2 | | Seeya Thakre | DS | II | | | |
| 3 | | Maithili Khuje | ECE | I | | | |
| 4 | Chess (M) | Aryan Deogade | ECE | III | 16th – 18th February, 2024. | Mahe Manipal University, Bengaluru | Participation |
| 5 | | Atharva Alone | AIML | II | | | |
| 6 | | Kshitij Mudliar | AIML | I | | | |
| 7 | | Tanya Pandey | EC | III | | | |



*Tanaya Pandey, Siya Thakre & Maithili Khuje for Chess (W)*



*Aryan Deogade, Atharva Alone & Kshitij Mudliar (Chess M)*

### RTMNU All India West Zone Championship

The Students of RCOEM excelled in the Inter-Collegiate Tournament and were selected in the RTMNU's Team for the West Zone Championship. The Following students represented Nagpur University in the West Zone.

| Sr. No. | Game | Name | Branch | Year | Date | Venue | Position |
|---|---|---|---|---|---|---|---|
| 1 | Cricket (M) | Harshit Bawane | MBS | 1 | 18-28 February 2024 | Kaviyatri Bahinabai Choudhari North Maharashtra University, Jalgaon | Participation |



*Harshit Bawane*

| Sr. No | Name of Player | Branch | Year | SEM | Game | Level of Participation | Position |
|---|---|---|---|---|---|---|---|
| 1 | TANAYA PANDEY | ECU | III | V | CHESS | WEST ZONE | 1$^{ST}$ PLACE |
| | | | | | | ALL INDIA | PARTICIPATION |
| 2 | SEEYA THAKARE | DATA SCI. | II | III | CHESS | WEST ZONE | 1$^{ST}$ PLACE |
| | | | | | | ALL INDIA | PARTICIPATION |
| 3 | MAITHILI KHUJE | B. TECH (EC) | I | I | CHESS | WEST ZONE | 1$^{ST}$ PLACE |
| | | | | | | ALL INDIA | PARTICIPATION |
| 4 | ANAND MARATHE | EC | III | V | LAWN TENNIS | WEST ZONE | PARTICIPATION |
| 5 | DEVASHREE AMBEGAOKAR | CSE | III | V | BASKETBALL | WEST ZONE | PARTICIPATION |
| 6 | ARYA DONGRE | EC | III | V | BASKETBALL | WEST ZONE | PARTICIPATION |

| 7 | PREETI SATHAWANE | B. TECH (ENCS) | I | I | BASKETBALL | WEST ZONE | PARTICIPATION |
| 8 | JASKARAN SINGH SURI | MECH | IV | VII | BADMINTON | WEST ZONE | PARTICIPATION |
| 9 | ATHARVA NITIN ALONI | AIML | II | IV | CHESS | ALL INDIA | PARTICIPATION |
| 10 | KSHITIJ MUDLIAR | B. TECH (AIML) | I | II | CHESS | ALL INDIA | PARTICIPATION |
| 11 | ARYAN D. DEOGADE | EC | III | VI | CHESS | ALL INDIA | PARTICIPATION |
| 12 | HARSHIT BAWANE | MBA | I | II | CRICKET | WEST ZONE | PARTICIPATION |

**Invitational Tournament**

• The students of RCOEM actively participated in Subhash Mandal Kridava Sanskritik Mahotsav Kabaddi Tournament which was held at Subhash Mandal Kridangan.

• The students of RCOEM actively participated in the Sindhu Mahavidyalaya "Run-Neeti" which was held at Dhanwate National College from 2nd January to 6th January 2024. Student's showcased their active involvement and secured prizes across various events.

| Sr. No. | Event | Game | Date | Venue | No. of Participants | Position |
|---------|-------|------|------|-------|---------------------|----------|
| 1 | Subhash Mandal Kridava Sanskritik Mahotsava | Kabaddi (M) | 23/01/2024 | Subhash Mandal Kridangana | 10 | Participation |
| 2 | Sindhu Mahavidyalaya's Run Neeti | Cricket (M) | 02/01/24 – 06/01/24 | DNC | 16 | Second |

**Inter Branch Sports Cup**

The Inter Branch Sports Cup was organised by the Dept. of Physical Education at RCOEM, which took place from 10th January to 29th January 2024. 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.

**During the Jan-march Period :**

| Event | Date | No. of Teams | No. of Participants | I Position | II Position |
|---|---|---|---|---|---|
| Basketball (M) | 15/1/24 -18/1/24 | 12 | 105 | EN | ELEC |
| Cricket (M) | 10/1/24-18/1/24 | 14 | 180 | EC | CIVIL |
| Volleyball (W) | 19/1/24-29/1/24 | 7 | 58 | ELEC | MBA |
| Football (M) | 19/1/24-29/1/24 | 13 | 127 | DS | AIML |

Here is a comprehensive overview of the results **for Inter branch Sports Cup (Men)**

| Sr. No. | Event / Games | Place | | |
|---|---|---|---|---|
| | | Winner | Runner-Up | 2nd Runner-Up |
| 1 | Chess | EC | DS | AIML |
| 2 | Table-Tennis | EC | MECH | AIML |
| 3 | Badminton | MECH | CSE | EC |
| 4 | Tag-Rugby | IT | MECH | CY.SEC |
| 5 | Volleyball | EC | EN | EE |
| 6 | Football | DS | AIML | MECH |
| 7 | Cricket | EC | CIVIL | EE |
| 8 | Basketball | EN | EE | MECH |
| 9 | Athletics | CSE | EC | CIVIL |

**Here is a comprehensive overview of the results : Interbranch Sports Cup (Women)**

| Sr.No. | Event / Games | Place | | |
|---|---|---|---|---|
| | | Winner | Runner-Up | 2nd Runner-Up |
| 1. | Chess | EC | DS | AIML |
| 2. | Table-Tennis | EC | BIO-MED | DS |
| 3. | Badminton | MBA | EC | EN |
| 4. | Throw-Ball | CSE | AIML | BIO-MED |
| 5. | Basketball | CSE | EC | DS |
| 6. | Cricket | EN | EC | CY. SEC |
| 7. | Volleyball | EE | MBA | DS |
| 8. | Athletics | DS | EE | CIV |

**Sports Cup Overall-Championship 2023-24**

| Sr. No. | Trophies | Men/Women | Winner |
|---|---|---|---|
| 1 | Sports Cup | Men | Industrial |
| 2 | Sports Cup | Women | EC |
| 3 | Fair-Play Award | | Data Science |

| Sr. No. | Best Sportsperson of Year 2023 -24 | Branch & Year |
|---|---|---|
| 1 | Aryan Deogade | EC III Year |
| 2 | Devashree A. Ambegaokar | CSE III Year |

## National Youth Day

The Department of Physical Education and the NSS Unit of Shri Ramdeobaba College of Engineering & Management, Nagpur, enthusiastically celebrated National Youth Day on January 12 – 13, 2024, to commemorate the birth anniversary of Swami Vivekananda Ji. The event aimed at inspiring and motivating the youth by reflecting on the life and teachings of Swami Vivekananda.

### Date : 13th January, 2024

The second day witnessed an engaging Walkathon event organized by the Department of Physical Education and the NSS Unit. The 4-kilometer run/walk/jog race was followed by a session of Zumba and Yogasana, emphasizing the importance of physical fitness and mental well-being. For the Zumba session, Ms. Tejaswani, a Zumba Coach from VANAMATI Nagpur, infused energy and enthusiasm into the participants. The first-year students, in particular, enjoyed the dynamic session. Ms. Tejaswani was felicitated by Dr. Sangeeta Deshmukh, the first-year incharge. The subsequent yoga session featured a team from Kavi Kulguru Kalidas Sanskrit University, Ramtek, led by Dr. Divya Sharma, a lecturer at the university and a meditation coach. The rhythmic yoga performance by Ms. Devyani Dange added a touch of artistic expression to the event.

*Total 510 Students participation and 09 faculties participation was recorded making the event a grand success.*

**UDGHOSH 6.0 (Annual Sport Festival of RCOEM)**

A. **Invitational Intercollegoate Tournamaents**
B. **Faculty Sports**
C. **Annual Inter-Branch Athletic Meets**



This year we witnessed the grandeur of the sixth annual UDGHOSH, signalling its remarkable ascent in popularity and importance within the college community. Organized by the Department of Physical Education, this year's extravaganza unfolded from the 7th to the 17th of February, 2024. Featuring an impressive array of six thrilling sports disciplines - cricket, basketball, volleyball, table tennis, football, and chess-the event spanned a spirited 10 days.

Drawing participants from a diverse spectrum of 15 colleges, UDGHOSH saw an enthusiastic turnout of 512 sports enthusiasts. The stakes were high, with prizes amounting to an impressive 1 lakh rupees, embodying the department's unwavering dedication to honouring and incentivizing athletic prowess among participants.

| Sr No | Game /Event | Best Player | College Name | Winner/Runner |
|---|---|---|---|---|
| 1 | Cricket | Hardik Nakhate (D N C) | Dnc | Winner |
| 2 | Cricket | | A G College | Runner |
| 3 | Football (M) | Mohd. Saad Shaiekh (Anjuman College) | Anjuman College | Winner |
| 4 | Football (M) | | Rcoem B | Runner |
| 5 | Basketball (M) | Tanuk Gurnule (D N C) | Dnc | Winner |
| 6 | Basketball (M) | | G H Raisoni | Runner |
| 7 | Basketball (W) | Devashree Ambegaokar (Rcoem) | Rcoem | Winner |
| 8 | Basketball (W) | | G H Raisoni | Runner |
| 9 | Chess (M) | - | Aryan Deogade (Rcoem) | Winner |

| 10 | Chess (M) | - | Mohak Bhagchandani (Modern School) | Runner |
| 11 | Chess (W) | - | Maithili Khuje (Rcoem) | Winner |
| 12 | Volleyball (M) | Jaswant Bonda (Vnit) | Rcoem C | Winner |
| 13 | Volleyball (M) | | Vnit | Runner |
| 14 | Volleyball (W) | Mahi Tiwari (Rcoem) | Rcoem | Winner |
| 15 | Volleyball (W) | | T.G.P.C.O. E | Runner |
| 16 | Table Tennis (M) | - | Ambedkar Raisoni | Winner Runner |

**Intercollegiate Cricket :**

The students' of Ramdeobaba College of Engineering participated in the RTM Nagpur Universiteit-collegiate Championship on 23rd March 2024 at DNC College wherein 15 students participated.

# LIBERAL ARTS

**Disaster Management Through Adventure Sports :**

Department of physical education organized a two days Residential camp for the students of B.Tech First Year as a part of the liberal arts course "Disaster Management through Adventure Sports: (PEP 0001-22) at "Prahargadh" Umrer Road, Nagpur from 3rd – 4th April and 5th – 6th April 2024. The students acquired skills in transporting casualties, administering first aid, tying various knots essential for disaster management, and more. The camp was attended by Total 110 students (85 Boys and 25 Girls). They were accompanied by 2 faculties of the department.



**Self Defence Essentials and Basic Knowledge of Defence Forces :**

On 2nd April, the students from RCOEM College, embarked on a one-day visit to Prahargarh as a part of the liberal arts course "Self-defence Essentials and Basic Knowledge of Defence Forces" (PEP 0002-22). The camp was attended by Total 103 students (88 Boys and 15 Girls). The primary aim of the visit was to enhance the students' understanding. Throughout the day, students had interactive sessions with Flight Lieutenant Shivalee Deshpande, providing them firsthand knowledge of the challenges and responsibilities in the defence forces. These sessions promoted a better understanding of discipline, teamwork, and leadership principles self-defence and provide them with practical insights into the workings of Defence forces.
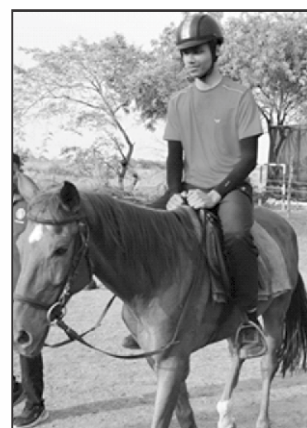
## NATIONAL SERVICE SCHEME (NSS)

**Republic Day :**

Shri Ramdeobaba College of Engineering and Management commemorated the 75thRepublic Day, emphasizing on the theme, "India at 75". The celebrations commenced at 09.30 am with a flag hoisting ceremony by the hands of honourable chief guest Shri. Shyam Sunder Rathi ji (Chairman of Steering Committee, RCOEM) in the presence of Dr. R.S. Pande (Principal, RCOEM), Deans, HODs and other dignitaries. NSS volunteers - Ms. Khushi Agrawal and Mr. Devanshu Narnoliya were the anchors during the event. Everyone saluted the National flag and sang the National Anthem in unison. Subsequently, our chief guest addressed the crowd with an inspirational speech which left the audience with a feeling of patriotism. The program 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 (Joint Secretary, NSS Unit). Around 100 student participants of Literary Club, Music Club, Dance Club and Drama Club and the 42 NSS Volunteers made this event a grand success.

**National Youth Day**

The Department of Physical Education and the NSS Unit of Shri Ramdeobaba College of Engineering & Management, Nagpur, enthusiastically celebrated National Youth Day on January 12 – 13, 2024, to commemorate the birth anniversary of Swami Vivekananda Ji. The event aimed at inspiring and motivating the youth by reflecting on the life and teachings of Swami Vivekananda.

**Date : 12th January, 2024**

The celebration kicked off with a lecture session led by Dr. Lekheshwar Chandrawanshi, who drew parallels between the life of Swami Vivekananda and the challenges faced by today's youth. The official inauguration was marked by a traditional lamp lighting ceremony, followed by an introductory speech by Prof. Vinisha Nitnaware. Dr. Amit Anurag expressed gratitude and officially concluded the day with a vote of thanks. Post the lecture, batches were distributed to the core committees of the NSS Unit. Total 112 NSS Volunteers and other students participated in the event to make it a success.

**Prerna**

The NSS Unit of RCOEM organised a week-long socio-cultural camp Prerna. Through a series of activities and engagements, PRERNA endeavours to shape various aspects of personality, fostering physical and mental growth while instilling a sense of social responsibility.

- **Nyaya Summit :** A challenging legal competition testing decision-making skills. Rounds were held from 21st to 23rd Feb at EN and MBA Audi.

- **Prayas :** An entrepreneurial platform managed by PRASHIL BHATAD, encouraging innovative startups. Rounds were on 21st and 23rd Feb at MBA audi.

- **Health Check-up Camp :** Ensuring well-being this camp was held on 20th Feb at MAIN auditorium.

- **Chakravyuh :** A test of physical and mental prowess held with thrilling challenges was held on 18th feb

- **Junoon :** Celebrating inclusivity showcasing talents of specially-abled children was held on 21st feb.

- **Village Visit :** Lastly, our "Village Visit" initiative was aimed at fostering community bonds and creating a lasting impact through immersion in village life. NSS Unit visited HATLA Village on katol road under special camp on 26th March 2024. Through skill- sharing sessions, health camps, and sessions on hygiene and sanitation, we aimed to bridge gaps and build relationships, enriching both the lives of villagers and participants alike. At past we adopted several villages and helped to fulfil their needs by our support.

## Department of Computer Applications

### Faculty Corner
### Faculty Ph D Awarded

Dr. Lalit Agrawal was awarded Ph.D. in Computer Science and Engineering by Rashtrasant Tukadoji Maharaj Nagpur University in January 2024.

Dr. Satyajit S. Uparkar was awarded Ph.D. in Computer Science by Rashtrasant Tukadoji Maharaj Nagpur University in January 2024.

### Publications

1. Prof. Yoginee Pethe and Dr. Satyajit Uparkar have published a paper titled "Data mining classification techniques to analyze the TV market data" in 2nd International Conference on Futuristic Technologies (INCOFT) 2023 organized by S.G.Balekundri Institute of Technology Shivabasava Nagar, Nehru Nagar, Belagavi, Karnataka, India. Its IEEE) ISSN: 979-8-3503-0884-6. (Scopus)

2. Prof. Punam Khandar, Dr. Satyajit S. Uparkar and et. al., have published a paper titled "Enhancing Classification Performance through FeatureBoostThyro: A Comparative Study of Machine Learning Algorithms and Feature Selection" in the International Journal of Online and Biomedical Engineering (iJOE) with eISSN: 2626-8493, Vol. 20 Issue. 4 (2024) indexed in Scopus/ESCI.

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

1. Dr. Sachin D. Upadhye has attended a Professional Development Program (PDP) on "Counselling for Student Development " from 16/01/2024 to 20/01/2024 organized by National Institute of Technical Teachers Training and Research Chennai.

2. Dr. Sachin D. Upadhye has attended a Professional Development Program (PDP) on "Internet of Things" from 12/02/2024 to 16/02/2024 organized by National Institute of Technical Teachers Training and Research Chennai.

### Departmental Activities
### Industrial Visits

An Industrial visit to Global Logic company situated in MIHAN, Nagpur was organized for the MCA Sem-II students on 6th February 2024. 28 students from both Div-1 & 2 were selected based on the fast learner's category for the Global Logic visit. They were accompanied by Dr. Preeti Voditel, Head of Department of Computer Applications and two faculty members, Dr. Satyajit Uparkar and Prof. Vishnu Vardhan.

Mr. Ajay Chaudhary, AVP – Engineering of Global Logic welcomed the faculty and students. In his address Mr. Ajay informed the students about different kinds of projects undertaken at Global Logic along with the technical advances made in varied domains ranging from Chip to Cloud services with respect to their client projects. Later Mr. Hrushikesh Zadgaokar, Solution Architect, took over the session with some student queries and explained how the customization and accelerator software were being developed at Global Logic. After these sessions, a tour of their facilities was conducted in their premises. Mr. Kamal Kaushik, VR Technologist show-cased how the offline store experience could be improvised by using the Augmented Reality software. Also Mr. Praful Mishra, AR-VR Technologist demonstrated the Virtual

Reality, Mixed Reality capabilities by showcasing them through the web-based cloud application and explained how virtual interactions had been organized for their freshers during the Covid pandemic for acquainting them with various premises facilities. The entire visit was supported by Mr. Sanjay Gawande and Mr. Dhananjay Mankar from Admin and Facility Support of Global Logic. Dr. Preeti Voditel thanked everyone for the support extended for this visit.
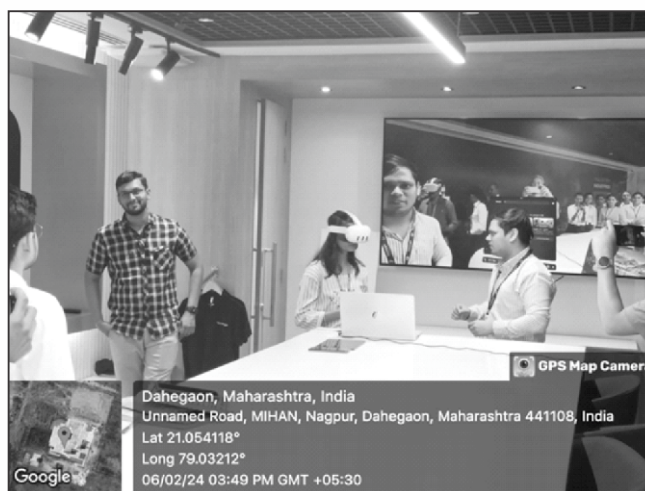
**Few photographs of the Global Logic visit :**



*Students accompanied by Prof. V. Vardhan interacting with the company experts (File Name GL-1)*



*Dr. P. S. Voditel and Dr. S. Uparkar with MCA students at Global Logic visit (file name GL-2)*



*Student trying out the virtual reality headgear (file name GL-3)*

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

Parents - teachers meet was conducted by the Department of Computer Applications on 2nd March 2024 for Semester-2 and Semester-4 students, 11:00 am onward. The main objective of this meet was to get the feedback from parent regarding the teaching learning process being followed by the Computer Application Department and also get useful suggestions from them.

The parents and students were made aware of the teaching learning process, the placement efforts and the other novel practices of the Department. The fourth semester students' parents specially enquired about the internship drives being undertaken by the Department. The HOD answered their queries and also informed them about the various initiatives which were already conducted as well as those planned in near future for the students in the Department. The Parents also interacted with respective course teachers for resolving any subject related query.



*Class teachers interacting with parents*
*(File name PTM-1)*



*Head Dr. P. S. Vodite interacting with parents*
*(File name PTM-2)*

**Toppers List (Combined list of two shifts) if applicable**

| Sr. No. | First Year | Second Year |
|---------|-----------|-------------|
| 1 | Mahek Pradeep Amesar (10.0) | Sakshi Hemant Bidkar (10.0) |
| 2 | Nitin B Ahuja (9.95) | Satyanarayan Jaiswal (9.92) |
| 3 | Paras Sitaram Bramhankar (9.91) | Yash Manoj Kadukar (9.84) |

**Achievements**

Aachal Rokade from 2021-23 batch has cleared National Eligibility Test (NET) 2023 entrance exam for JRF and Asst. Professor.

**Any other activity (s) :**

1. Prof. Punam Khandar has published a patent titled "Novel planters stand with plate holder" with a design patent no. 404262-001.

2. Students of MCA Semester II and IV have attended the 2 weeks training session on competitive coding. The objective of this training was to make students ready for the upcoming placement drives.

3. Total 83 MCA Sem., IV students got the stipend-based industry internship that also includes the performance-based Pre-Placement offer of minimum 3.5 LPA.

The following students of 2022-24 batch have been selected for stipend-based internship in reputed companies. Many of them also have pre-placement offers from the companies.

| Sr No | Name | Company | Sr. No. | Name | Company |
|---|---|---|---|---|---|
| 1 | Aakanksha Manoj Vaidya | Dhan Infotech | 40 | Neha Santosh Muthreja | Siemen |
| 2 | Abhijeet Udaysingh Baghel | Royals Webtech Pvt Ltd. | 41 | Nidhi Anilkumar Channe | Siemen |
| 3 | Adil Sayeed Khan | Fendahl | 42 | Nihal Rajkumar Jaiswal | Avestan Technology |
| 4 | Akansha Mohan Hade | Dhan Infotech | 43 | Noopur Chainlal Katre | Bismi Technology |
| 5 | Akashprasad Baleshwarprasad Mahato | Skymentor | 44 | Palak Sunil Ladhani | Northern Lights Analytics |
| 6 | Alok Kuwarlal Jamaiwar | Ellite | 45 | Prachita Rahul Kamble | Ellite |
| 7 | Aman Mukesh Raut | Hotel key | 46 | Pranali Omdeo Thawkar | GPIT |
| 8 | Aman Purushottam Bangare | Siemen | 47 | Pranit Sagar Pardhi | Cidade De Daman |
| 9 | Antra Satish Acharya | Fendahl | 48 | Pravin Deviprasad Choudhari | Techwalnut |
| 10 | Anushka Rajesh Ingle | Accenture/Techwalnut/ | 49 | Priya Babulal Jangir | Goyal Bros. & co |
| 11 | Arsalan Anwar Hussain | On Network Solution Pvt Ltd. | 50 | Priyam Balkrishna Agrawal | Avestan Technology |
| 12 | Ashish Mahesh Sharma | Whiz Software & business Solutions | 51 | Rafatfatima Abdul Aziz Khan | Ellite |
| 13 | Ashwini Arun Hedau | Codelancer | 52 | Rahat Kalim Sheikh | Nedient Technology Pvt. Ltd. |
| 14 | Avanti Rajil Jaiswal | Accenture/Techwalnut/ | 53 | Raj Jitendra Purohit | Ellite |
| 15 | Ayush Shardaprasad Pal | Northern Lights Analytics | 54 | Ritika Kishor Jaiswal | Royals Webtech Pvt Ltd. |
| 16 | Bhavna Bhaskar Dhage | Accenture/Techwalnut/ | 55 | Ruchita Sanjay Agrawal | Bismi Technology |
| 17 | Chaitanya Rajendra Thakre | Nedient Technology Pvt. Ltd. | 56 | Rupali Dinesh Bodkhe | Royals Webtech Pvt Ltd. |

| | | | | | |
|---|---|---|---|---|---|
| 18 | Chetan Tarachand Bhusari | Techwalnut | 57 | Sajeed Salam Kannoje | Appcarry |
| 19 | Dharti Narendra Kharapkar | TCS (OFF Campus) | 58 | Sakshi Hemant Bidkar | GPIT |
| 20 | Dhiraj Dipak Hatwar | Ocean Software Technology | 59 | Sakshi Santosh Mishra | Acmegrade |
| 21 | Dolly Pravin Kankariya | Bismi Technology | 60 | Sakshi Saroj Singh | Hexaware |
| 22 | Ekta Ajay Vaidya | Ellite | 61 | Sandhya Netaji Lingali | Acmegrade |
| 23 | Franki Prafull Nehemiah | Code Microsystem OPC Pvt. Ltd | 62 | Satyam Dilip Baghel | Siemen |
| 24 | Gaurav Binod Singh | Codegraph Solutions | 63 | Satyanarayan Jaiswal | Siemen |
| 25 | Gouri Pramod Ingle | Anicom Solution | 64 | Shivam Rajkumar Asati | Panmitra Online Services Pvt. Ltd. |
| 26 | Harsh Gajanan Bhagwatkar | Techwalnut | 65 | Shivani Thakur | Techwalnut |
| 27 | Harshal Haridas Halmare | Ocean Software Technology | 66 | Shraddha Devendra Vishvekar | Northern Lights Analytics |
| 28 | Harshal Jawahar Choudhary | Skymentor | 67 | Shrishti Gyanchand Belani | Techwalnut |
| 29 | Harshal Sanjayrao Gohane | Fendahl | 68 | Shudhanshu Shivshankar Gupta | RiwaFoods |
| 30 | Isha Naresh Gupta | SkillValley | 69 | Srushti Rajesh Hemnani | Appcarry |
| 31 | Ishu Janakram Sahu | Happy Gaming World | 70 | Sumit Dattu Dahake | Northern Lights Analytics |
| 32 | Janvi Arun Sorte | Ellite | 71 | Sumit Kumar Verma | Web Rilier Software |
| 33 | Jayvrat Dwivedi | Royals Webtech Pvt Ltd. | 72 | Vaishnavi Manoj Batho | Siemen |
| 34 | Kritik Roopesh Vaishnav | Panmitra Online Services Pvt. Ltd. | 73 | Vanshika Khushal Lanjewar | Ellite |
| 35 | Madhura Vinayak Khandale | Simple CRM | 74 | Ved Vinod Awasthi | Codegraph Solutions |

| 36 | Mrunali Sunil Dhok | Simple CRM | 75 | Vedant Ajay Deorankar | Percept Infosystem |
| 37 | Mugdha Pravin Bhoot | Ellite | 76 | Vidhi Narottam Pitroda | Jayshree Industries |
| 38 | Musharraf Mehmood Shah | Techwalnut | 77 | Yash Kishor Katkar | GPIT |
| 39 | Najishali Sayyed Riyajali Sayyed | Nedient Technology Pvt. Ltd. | 78 | Yash Satish Sekasariya | Duo Bytes Technologies |

## Department of Management Technology

### Faculty Corner
### Faculty Ph D Awarded

Dr. Kanchan Chandar Tolani, faculty of MBA (Integrated) was awarded Ph.D. in Commerce and Management from RTMNU on 12th February 2024.

### Publications

1. Dr. Dr.Parihar Dahake has published a paper titled Solid Waste Management: A Sustainable Waste Management for Human Health and Environment in Journal of Organisational Studies and Innovation with ISSN 2056-9130, Volume 10, Issue 4, (ESCI).

2. Dr. Dr.Parihar Dahake has published a paper titled Solid waste management: The necessity of an epoch for the protection of community, public safety, health, and environmental quality in Materials Today with ISSN 2214-7853, (Scopus).

3. Dr. Sunita Dhote has published a paper titled Integrating Digital Transformation And Innovation For Sustainable Entrepreneurship In Small And Medium-Sized Enterprises (Smes) in Migration Letters with ISSN 1741-8984, Volume 21, (Scopus).

4. Dr. Sunita Dhote has published a paper titled Circular Economy towards Sustainable Businesses: Exploring Factors Shaping Adoption and Implementation Barriers in Educational Administration: Theory and Practice with ISSN 2148-2403, (Scopus).

5. Dr. Sunita Dhote has published a paper titled Green Finance as a Catalyst for Achieving Organizational Sustainability Goals in Educational Administration: Theory and Practice with ISSN 2148-2403, (Scopus).

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

**Parents Meet :** The parent teacher meet was held on 4th November 2023 & 17th Feburay from 11:00 am to 12:00 pm. Total 18 parents attended the meet. The meeting started with a presentation by Prof. Rijuta Joshi to make parents aware about the journey of a student in the department. A presentation was given by the T&P Head of the department to make parents aware about the placement initiatives taken by the department. Parents were also told about the details of the students placed till now. Queries related to attendance, internships and college events were resolved. Parents were also informed about several activities like industrial visits, live projects. Test Marks and attendance were shared with parents by class Coordinators and respective subject faculty.

**Gyansarovar and Kshitij :** The resounding success of Gyansarovar and Kshitij, our flagship academic and non-academic events held on January 18th, 19th, and 20th, stands as a testament to the unwavering dedication of the Student Development Cell and the collaborative spirit fostered within our academic community.In retrospect, Gyansarovar and Kshitij exemplified a perfect blend of fun, excitement, and learning. The dedication of the organizing team, coupled with the enthusiastic participation of students, made these events a resounding success, leaving a lasting impact on our academic community. Led by the diligent coordination of Dr. Kanak Wadhwani, the SDC coordinator, and with invaluable support from

MBA coordinator Dr. Gayathri Band and HOD Dr. Rupesh Pais, the events unfolded seamlessly. The culmination of efforts from faculty members and enthusiastic participation from students and teams propelled these events to new heights.

**Conference, STTP and Guest Lectures organized in Department**

**Labour Laws Certificate Course :** Nagpur, 16th & 17th March, 2024- A pioneering two-day certificate course on labor legislation was organized by the Vidarbha Industries Association HRD Forum and the Quality Circle Forum of India, Centre of Human Excellence, RCOEM, with the goal of equipping upcoming HR professionals with essential knowledge. Took place on March 16 and 17, this full-day program was a lighthouse of knowledge for students exploring the complexities of HR specialization. It provided a thorough grasp of labor laws from seasoned professionals in the field.

The program's enormous impact was set in motion by Dr. Avinash Acharya, Senior Manager of MSED, during its inaugural session. Dr. Acharya expounded on the subtleties of wage and trade union rules, highlighting the importance of key pieces of legislation such as the Trade Union Act of 1926, the Payment of Wages Act of 1936, and the Minimum Wages Act of 1948. After this insightful talk, attendees had the honour of learning from Mr. Sanjay Deo, the renowned CEO of Wise HR Manager, whose presentation covered the complex web of labor regulations and the ensuing Industrial Disputes Act.

## TEMPLE REPORT

| DATE | EVENT | ACTIVITY |
|---|---|---|
| 02-01-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 07-01-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 09-01-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 12-01-2024 | Duj | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 14-01-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 16-01-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 20-01-2024 | Dashmi | |
| 21-01-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 23-01-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 28-01-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 30-01-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 04-02-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 06-02-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 11-02-2024 | Duj/magh | Bhajan Sandhya By Tarachand Ratan Lal Sharma |
| 14-02-2024 | Basant Panchmi | Shri Viramdevji Janamutsav By Dinesh Ji Sharma |
| 19-02-2024 | Dashmi | Bhajan Sandhya By Shri Ramdeo Kirtan Sangam |
| 20-02-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 25-02-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 27-02-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 02-03-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 05-03-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 09-03-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 11-03-2024 | Duj | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 12-03-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 16-03-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 17-03-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 19-03-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 24-03-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |
| | | And Holika Dehan |
| 26-03-2024 | | Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal |
| 31-03-2024 | | Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal |

# *Reflection*
## NEWSLETTER

## SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT, NAGPUR

**Ramdeobaba Tekadi, Gittikhadan, Nagpur - 440013**
**Phone : 0712-2580011, Website : www.rknec.edu**



**Shri Ramdeobaba Temple on Campus**

## RCOEM
**Shri Ramdeobaba College of**
**Engineering and Management, Nagpur**

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