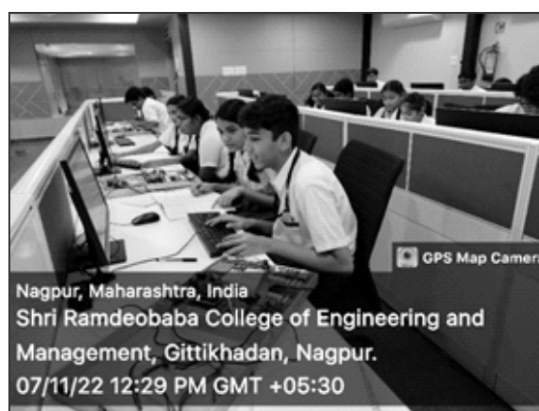


Department of RCOEM-TATA-CIIT (Centre for Invention Innovation Incubation & Training)

One Day Training Program on Solid Modeling, 3D Printing, Internet of Things, For students of BVM :

Training awareness workshop for 9th Std & 11th Std students of **BHAVAN'S VIDYA MANDIR** from various branches from 10.30 am-5.00 pm, was held at RCOEM-TATA-CIIT. In coordination with Dr. Vishal Shukla, Dr. G. R. Nikhade, Prof. Bhushan Bissa, Prof. Vipul Lande, Prof. Ashlesh Jaiswal, Prof. Shubham Anjankar, Prof. Lokesh Heda, Prof. Snehal Laddha & Technical Assistant of Mr. Mayur Patle, Mr. Shrikant Wankhede, Ms. Nikita Satfale.



BVM School, Srikrishna Nagar, Nagpur BVM School, Koradi, Nagpur



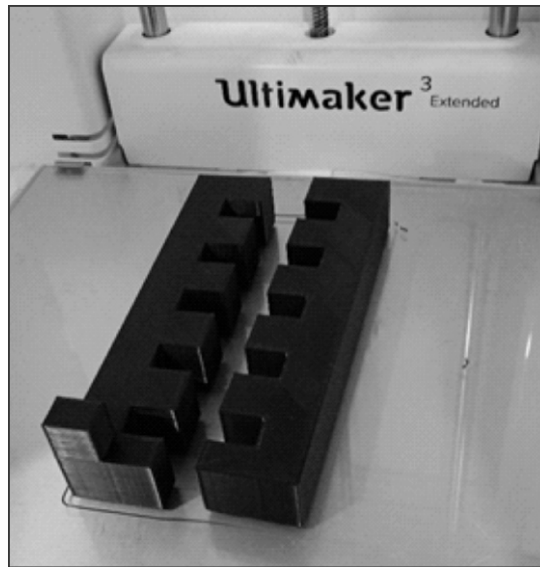
BVM School, Trimurti Nagar, Nagpur



BVM School, Civil Lines, Nagpur.

Consultancy & Project :

- Danish Siddiqui and team students from Final Year Electronics Engg. designed and 3 D printed a gripper prototype for the project of "Pole Climbing Robot with Controlled Gripper Mechanism".



- Sharique Sheikh and team students from final year Civil Engg. designed and 3 D printed a Front Wheel, Rear Wheel, Gear Shaft etc. prototype for the project of “Dynamic Response on Railway Station”.



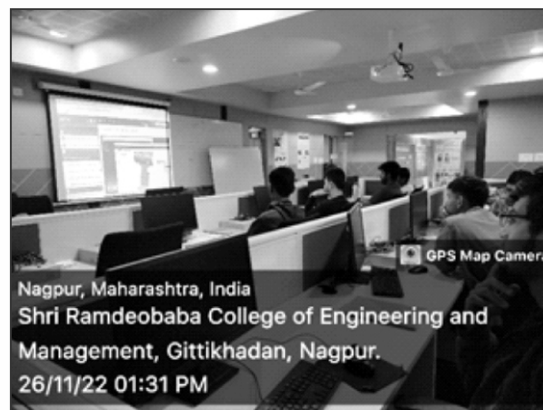
- Ashwin Dube Student of Mechanical Engg. participated in KPIT Technology, a National level competition with “Convertible Recreational Electric Vehicle”. He designed and 3 D printed various parts of electric vehicle.



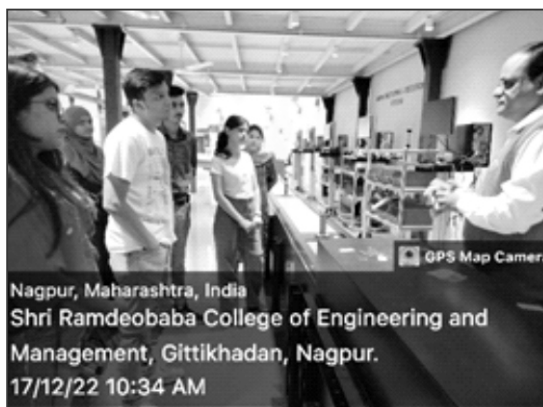
Prototype of “Convertible Recreational Electric Vehicle”

Guest Lecture & lab Utilization:

- The students of 3rd and 5th Semester Mechanical Engg. attended 5 to 6 training sessions of 1-hour duration using I GET IT platform.



- The students of B.Tech.Civil Engg, M.Tech Robotics & Automation and MBA visited CIIT.





Dr. Amol P. Bhopale delivering talk to the CS & IT Students on Machine Learning



Conduction of End Semester Practical exam on Internet of Things

Visit of Eminent persons to RCOEM-TATA-CIIT :



HoD's of St. Vincent Pallotti College of Engg



NBA Committee Visited CIIT



Dr. Fr. Paul Chandrankunnel, Dr.S. V. Gole Heads of Gaikwad Patil College of from St. Vincent. Palloti College of Engg. &Tech.Engg. & Tech



Mr. K. S. Gupta Director of Sandeep Metalcraft Pvt. Ltd.

Student Representative Council (SRC)

Student Achievements

SrNo.	Name of Student	Event	Achievement	Date
1.	Pranjal Prasad, ECE,3rd year	INDRADHANUSHYA 2022-StateLevel Inter University Competition	Secured 2nd position in Western Vocals Solo	17-18 th Oct 2022
2.	"Grp dance participants 1. Tarun Mishra(IMBA -3rd yr) 2. Aditi Tiwari (CSE-3rd yr) 3. RajlaxmiShinde(Civil-3rd yr) 4. RohitRaut(Electronics-3rd yr) 5. BhavikaBhojwani (AIML-3rd yr) 6. Akshita Gupta (IMBA-3rd yr) 7. Rahul Kumbhare (ECE-3rd yr) 8. NehalNagpal (Industrial-3rd yr) 9. Shakti Zanzari(CSE-2nd yr)"	AAROHI 22 -VNIT	Secured 2nd position in A LA DANSÉ, Aarohi 22, VNIT !!	11-13th Nov 2022
3.	Shubham Joshi, Final Year	TATA Imagination Challenge 2022	Won the Tata - idea award, he is among 13 winners out of 2.3 lacs entries from all India. and received Rs. 2.0 lacs+ goodies and PPI offer	

National Unity Day was celebrated on 31st October to mark the birth anniversary of the Iron Man of India, Sardar Vallabhbhai Patel.



Induction Program Day 1



Induction Program Day 2



Induction Program Day 3



Induction Program Day 4



Induction Program Day 5



Induction Program Day 6



Induction Program Day 7



Induction Program Day 8



GYANODAYA 2022



Department of Civil Engineering

Faculty Corner

Awards received by Faculty of department

Dr. P. P. Dahale ,Dr. P. D. Hiwase , Prof. S. S. Geete received Best Paper Award Paper for Publication at International Conference organised by Manipal University, Jaipur on 11.11.2022. The topic for presentation was “Parametric Studies On Cemented Stone Column With And Without Bamboo Encasement”.

Guest Lectures taken by faculty

Dr. A. K. Sharma delivered his expert lecture at Regional Training Center, Nagpur during Foundation Training Programme for AE-II PWD (Civil) on 03-10-2022.

Publications

1. Ms.Monika Jain, Dr. R. N. Khapre published a paper on Post-tensioned anchorage zone: A review, Elsevier Structures .
2. Dr. P. P. Dahale, Dr. P. D. Hiwase ,Prof. S. S. Geete, Vivek Kumbhare published a paper on Experimental Studies on Alternate Foundations for load transfer in deep clay deposits in Elsevier Materials Today : Proceedings.
3. Dr. P. P. Dahale, Ishita Gusain , Saurav Sharma , Samrat Debarma published a paper on Study of Concrete Mix by adding dolomite in conventional concrete as partial replacement with cement in Elsevier Materials Today : Proceedings.
4. Dr. P. P. Dahale ,Dr. P. D. Hiwase and Prof. S. S. Geete presented a paper on Parametric studies on cemented stone column with and without bamboo encasement in International Conference on Recent Advances in Modeling and Simulation Techniques in Engineering and Sciences (RAMSTES 2022) organised by Manipal University, Jaipur on 9-11 November 2022.
5. Dr. P. P. Dahale ,Prof. S. S. Geete presented a paper on Review of Stability Analysis of Overburden Dump Slope of Coal / Mineral Mines in International Conference on Recent Advances in Modeling and Simulation Techniques in Engineering and Sciences (RAMSTES 2022) organised by Manipal University, Jaipur on 9-11 November 2022.
6. Dr. P. P. Dahale ,Prof. S. S. Geete presented a paper on Parametric studies on cemented stone column using demolition waste materials in Indian Geotechnical Conference 2022 organised by Indian Geotechnical Society & Cochin University of Science and Technology, Kerala on 15 - 17 December 2022.
7. Hitendrabhai S. Dewangan ,Aashish A. Mehta presented a paper on Sustainable Technique to Reduce Sea Pollution during Boring Operation in Indian Geotechnical and Geo environmental Engineering Conference organised by Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India on 19 to 20 November 2021.

STTP/FDP/other Training Attended by Faculty

1. Dr. P. P. Dahale attended ,Two days training on “Measurement of Uncertainty Calculations” from 19 – 20 October 2022 ,organised by RCOEM, Nagpur.
2. Dr. P. P. Dahale attended Two days training on “Assessment Techniques and Question Paper Setting” from 9 – 10 December 2022 organised by IQAC, RCOEM, Nagpur

Departmental Activities

Industrial Visits

SN	Activity	Date	Participants from RCOEM
1	Visit to RCOEM – TATA CIIT Center for Invention, Innovation, Incubation and Training for M.Tech Structural Engg. students	19- November- 2022	9 Students and 1 faculty
4	Site visit at Lower Wardha Dam for M.Tech Structural Engg. students	23- December- 2022	25 Students and 4 faculty

Conference, STTP and Guest Lectures organized in Department

SNo.	Conference/STTP/Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
01	Guest Lecture on “National Pollution Control Day – 2022”	Dr. Pawan Kumar Labhasetwar, Chief Scientist and Head, WT & M Division, NEERI	1 Hour	23 December 2022

Students' Corner

Student Achievements

SNo.	Name of Student	Event	Achievement	Date
1	AshutoshKhurana KrittikaMeshram SakshiMundhada	Workshop on Seismic Assessment and Rehabilitation of Structures (SARS)-2022, SVNIT, Surat	Participation	19 -31 December 2022
2	MangeshKumbhare PranjaliWanjari ShivaniKaswate ToshiniMakde	Workshop on Seismic Design of Steel Structure, VNIT, Nagpur	Participation	5-16 December 2022

Department of Computer Science and Engineering

Faculty Corner

Faculty PhD Awarded



Prof. Charanjeet Dadiyala, Assistant Professor, Department of Computer Science and Engineering (Cyber Security) has been notified to be eligible for the award of Ph.D degree in Computer Science and Engineering from Kalinga University, Naya Raipur on 10th December 2022. The title of his research was "Improving Stock Market Prediction Accuracy using Hybrid Processing with Machine Learning". The research was carried out under the guidance of Dr. Asha Ambhaikar, Professor and Dean Student Welfare, Kalinga University, Naya Raipur.

Guest Lectures taken by faculty

1. Dr. A. R. Raipurkar has delivered a lecture on "Cyber Awareness" on 01-Sep-2022 at Prof. Ram Meghe Institute of Technology and Research, Badnera-Amravati.
2. Dr. R. Hablani has delivered an online lecture on "Computational Physics Using Python-I and Python-II" on 17-Nov-2022 at Devi Ahilya Vishwavidyalaya, Indore-UGC-Human Resource Development Centre

Publications

1. Dr. Swati Hira published a paper titled 'Automated heuristic based Context Dependent ETL Process to Generate Multidimensional Model for Tabular Data' in the Journal of Concurrency and Computation, ISSN:1532-0634, Vol. 43, (Nov-2022) SCI.
2. Dr. M. B. Chandak published a paper titled 'Role of Blockchain Technology and Machine Learning in Design of Smart and Secure Warehouse Management System: A Survey' in International Journal of Next Generation Computing, Online ISSN: 0976-5034, Volume 13, Special Issue 5, (Nov-2022), ESCI indexed (Web of Science).
3. Prof. Shubhangi Tirpude published a paper titled 'Video Lecture Summarization System' in International Journal of Next Generation Computing, Online ISSN: 0976-5034, Volume 13, Special Issue 5, (Nov-2022), ESCI indexed (Web of Science).
4. Prof. Vrushali Bongirwar published a paper titled 'DIVVA Disaster Information Verification and Validation Application Using Machine Learning' in International Journal of Next Generation Computing, Online ISSN: 0976-5034, Volume 13, Special Issue 5, (Nov-2022), ESCI indexed (Web of Science).
5. Dr. Vasundhara Rathod published a paper titled 'Employing Biomedical Signals as a Means of Biometric Identification' in International Journal of Next Generation Computing, Online ISSN: 0976-5034, Volume 13, Special Issue 5, (Nov-2022), ESCI indexed (Web of Science).
6. Prof. Firdous Sadaf M. Ismail published a paper titled 'Blockchain Technology: Growing Use cases and Issues to Tackle' in International Journal of Next Generation Computing, Online ISSN: 0976-5034, Volume 13, Special Issue 5, (Nov-2022), ESCI indexed (Web of Science).

7. Dr.Ramchand Hablani published a paper titled 'Improved Salp Swarm Optimization-based Fuzzy Centroid Region Growing for Liver Tumor Segmentation and Deep learning- oriented Classification' in International Journal of Next Generation Computing,Online ISSN: 0976-5034,Volume 13, Special Issue 5, (Nov-2022), ESCI indexed (Web of Science).
8. Prof.Bhagyashree Hambarde, Prof.PriyaParkhi published a paper titled 'Computerized System to Audit and Sharing Feature of Medical Life History' in 'International Journal of Next Generation Computing',Online ISSN: 0976-5034,Volume 13, Special Issue 5, (Nov-2022), ESCI indexed (Web of Science).
9. Prof.Vrushali K. Bongirwar published a paper titled 'Multi Feature Sound Classification using Deep Learning' in 'NeuroQuantology', ISSN:1303-5150 Volume 20, Issue 13, Page 743-748,Scopus.
10. Prof. A. M. Karandikar published a paper titled 'Detection of Cloud Cover in Satellite Imagery Using Semantic Segmentation' in International Journal of Next Generation Computing,Online ISSN: 0976-5034,Volume 13, Special Issue 5, (Nov-2022), ESCI indexed (Web of Science).
11. Prof. R. Damdoo published a paper titled 'Lost + Found: The Lost Angel Investigator' in 'International Journal of Next Generation Computing', ISSN: 2229-4678,Volume 13, Special Issue 5, (Nov-2022), ESCI indexed (Web of Science).
12. Dr.ShailendraAote published a paper titled 'Binary Particle Swarm Optimization with an improved genetic algorithm to solve multi-document text summarization problem of Hindi documents' in 'Engineering Applications of Artificial Intelligence', ISSN: 0952-1976,Volume 117, Part A, January 2023, 105575,SCIE.
13. Prof.Wani Bisen published a paper titled 'A Machine Learning approach for Fake News Detection' in 'International Journal of Next Generation Computing', ISSN: 0976-5034,Volume 13, Special Issue 5, (Nov-2022), ESCI indexed (Web of Science).
14. Dr.Rashmi Welekar published a paper titled 'Options Trading using Artificial Neural Network and Algorithmic Trading' in 'International Journal of Next Generation Computing', ISSN: 0976-5034,Volume 13, Special Issue 5, (Nov-2022), ESCI indexed (Web of Science).

STTP/FDP/other Training Attended by Faculty

1. Prof. Vrushali Bongirwar attended a FDP on “IoT Induced Artificial Intelligence for Emerging Computing Paradigms” from 4-Oct-2022 to 8-Oct-2022 organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar
2. Prof. Shubhangi Tirpude attended a FDP on “IoT Induced Artificial Intelligence for Emerging Computing Paradigms” from 4-Oct-2022 to 8-Oct-2022 organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar
3. Prof. Pranali R. Dandekar attended a FDP on “Deep learning” on 29-Oct-2022 organized by Nptel IIT Ropar.
4. Prof.NehaTirpude attended a Workshop on “Practical Aspects of ICT Tools & Online Teaching in Current Scenario” from 14-Nov-2022 to 20-Nov-2022 organized by ‘Research Foundation of India & RFI-CARE’.
5. Prof.Pravin Sonsare attended a FDP on “Research Applications of Artificial Intelligence and Machine Learning” from 28-Nov-2022 to 9-Dec-2022 organized by ‘Research Foundation of India & RFI-CARE’.
6. Dr.Shubhangi Neware and Prof.Heena Agrawal attended a FDP on “Industry 4.0: Strategic and Technological Perspectives for Indian Capital Good Industries ” from 8-Dec-2022 to 12-Dec-2022 organized by VNIT, Nagpur.

Departmental Activities Parents Meet

Parent-Teacher Meet was conducted on 05th November, 2022 at the Department of Computer Science & Engineering, at 10.30 AM for V Semester CSE, Cyber Security, Data Science and Artificial Intelligence and Machine Learning. The meeting was commenced by the Head of Department, Dr. A. J. Agrawal. The Head of the Department interacted with the parents and students and discussed students' achievements which includes prominent achievements of CSE students, results, placement activities, internships and elevated alumni positions during the meeting. The meet concluded by parents contributing with constructive suggestions.

POLARIS - A National Level Technical Festival

Polaris-22, a National level technical festival was organized by the Department of Computer Science and Engineering, RCOEM, Nagpur on 2nd and 3rd December, 2022. The event was formally inaugurated on 2nd Dec, 2022. Mr. Aditya Bhatia, Centre Head of Tech Mahindra was Chief Guest and Mr. Mandar Limaye, Customer Delivery Manager at Tech Mahindra was Guest of Honor for the event. Mr. Aditya Bhatia influenced the students with his valuable words. He elucidated the importance of elementary knowledge to students with apparent examples. Mr. Mandar Limaye addressed the students in a very enlightening way. He guided the students on the significance of strategies for problem analysis. Dr. R. S. Pande, Principal, RCOEM delivered the presidential address. Dr. Avinash Agrawal, Head, CSE informed about the introduction of specialization branches in the department and motivated the students to participate in hackathons. Dr. Vasundhara Rathod, faculty incharge, Polaris briefed the gathering about various activities that Polaris offered this year. The various activities were conducted under Compusys - the CSE student forum. Technical events were conducted by the various chapters and clubs namely ACM chapter, CSI chapter, Google DSC Club, Geeks for Geeks Club and Intel SDC Club. The Fest concluded with a high-spirited cultural evening on 3rd Dec 2022.



Mr. Aditya Bhatia delivering the Chief Guest address

International Conference on Intelligent Systems, Data Science and Cyber Security-2022

The Department of Computer Science and Engineering (CSE) of Shri Ramdeobaba College of Engineering and Management (RCOEM), Nagpur, in association with National Sun Yat-sen University (NSYSU), Taiwan and knowledge partner Tech Mahindra, organized the 2nd International Conference on Intelligent Systems, Data Science and Cyber Security (ICIDC-2022) on 16th and 17th December 2022. ICIDC-2022 brought together researchers in the field of Data Science, Cyber Security, Machine Vision, Robotics and Smart systems to exchange their latest achievements and discuss the future development in these areas. ICIDC-2022 gave an active platform for scientists, academicians, engineers, professionals, research scholars and students to present their latest research findings, ideas and applications in the domains falling under the scope of this conference. It featured keynote sessions by eminent researchers and technical paper sessions by the delegates. Dr Sanjay Kumar Singh, Head, CSE, IIT BHU graced the occasion as the chief guest. The welcome address was delivered by the General Chair Dr. Avinash Agrawal, Associate Professor and HoD (CSE), followed by the address of chair Dr. M. B. Chandak, Professor (CSE) and Dean Academics, RCOEM. Dr. Katherine Shu-Min Li, Conference Chair, Professor, NSYSU, Taiwan, addressed the inaugural virtually. She emphasized on the significance of artificial intelligence and deep learning in recent times. Dr. Shailendra Aote, Conference Chair introduced the chief guest followed by his felicitation at the hands of Dr. Rajesh Pande, Principal, RCOEM. Dr. Sanjay Kumar Singh briefed the gathering about the importance of transition of the world from an agrarian lifestyle to a major technological revolution.

The presidential address was delivered by Dr. Rajesh Pande. Prof. Praful Pardhi, Conference Chair proposed the vote of thanks. The event was hosted by Dr. Vasundhara Rathod, Assistant Professor (CSE).



The dignitaries unveiling the journal proceedings

Chapter Events Geek For Geeks Chapter

Git-For-Geeks was an open-source 10-day-long event organized by the Geeks-For-Geeks RCOEM Chapter under the guidance of faculty-in-charge Dr. Vasundhara Rathod. The agenda of the event was to provide students a hands-on experience on Git, GitHub, and Open Source technologies which was successfully accomplished through a real-time Git contribution contest. The speaker for the event was Mr. Vedant Khairnar who is the Developer Advocate at CloudCasa by Catalogic, the Founder of the DevScript community, the Founder of Neovantium, and an organizer at many more communities.

The event was successfully held in two phases :

Phase one of the event was an introductory 2-hour long Seminar with hands-on experience on Git, GitHub, and open source which took place on 15th of October 2022 at MBA Auditorium. There were 140+ participants excluding the members of the organization in the interactive session. Mr. Vedant Khairnar, focused on explaining the working of GitHub including pull and push requests, contributing to repositories and projects, and abridging about Hacktoberfest.



Participants of phase 1 of Git for Geeks making their first Git contribution

Phase Two consisted of a 10 days long contribution phase where participants were to make pull requests in the repositories provided by Geeks-For-Geeks RCOEM Chapter. A total of 28 repositories were prepared by the members of the organization for the participants. These repositories covered every aspect necessary for an open-source platform, including DSA, Python, JavaScript, Data Science, Machine Learning, Flutter, Web Development, Competitive Programming, and many more. An Online revision session for the same was conducted on 21st October 2022 on the Google Meet platform for students who missed the offline session, this session included giving concise information on Git, GitHub, and Open Source in a nutshell. The Technical Team of the Chapter also created a Leaderboard (<https://gitforgeeks.netlify.app/>) for the Competition which used Next.js, React.js and GitHub API.

Guest Lectures organized in Department

SN	Conference/STTP/Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Applications of AI and Cyber Security (Workshop/Tutorial)	Mr.Ketan Paithankar, Co-Founder & CTO, konverge.ai	120 Min	10-Dec-22
2	Intelligent Systems and Its Applications (Keynote Lecture)	Dr. Sanjay Kumar Singh, Head, CSE, IIT Varanasi	90 min	16-Dec-22
3	Integrated Security Solutions for Emerging Applications (Keynote Lecture)	Dr. Katherine Shu-Min Li, Professor, NSYSU, Taiwan	60 Min	16-Dec-22
4	Synergy between Evolutionary Algorithms and Their Use in Association Rule Mining (Expert Lecture)	Dr.IztokFister, Asst. Professor, University of Maribor, Slovenia	90 Min	17-Dec-22
5	Knowledge Graphs and Applications (Expert Lecture)	Dr.Mukta Paliwal, AD, Data Science at Novartis.	120 Min	17-Dec-22
6	Guest Lecture on Tableau	Ms. Tanisha Agrawal, Program Associate (DS), Wells Fargo, Bangalore	90 Min	04-Oct-22

Students' Corner

Toppers List(Combined list of two shifts) if applicable

Department of CSE

Sr. No.	Fourth Year	Second Year
1	Anuragini Rajesh Paunika(10)	ZoyaNizar Ali Charaniya(10)
2	NidhiMisra(10)	AnushkaDhalendra Kumar Shukla(10)
3	SandeshThakurdasSachdev(9.92)	Mihir Sanjay Chowdhury(10)

Department of CSE - Data Science

Sr. No.	Second Year
1	Rohit Devendra Chandak (10)
2	Shruti Milind Fadnavis (9.98)
3	Chirag Pradeep Lalwani (9.98)

Department of CSE - AIML

Sr. No.	Second Year
1	Ketaki Pritesh Tank (10)
2	Aarya Vijay Balpande (9.64)
3	Esha Gopal Kumbhare (9.64)

Department of CSE - Cyber Security

Sr. No.	Second Year
1	Adnan Saifuddin Saiffee (10.00)
2	Abhishek Vinod Ashtankar (9.91)
3	Ayush Devidas Bhojwani (9.78)

Student Achievements

1. Shubham Dinesh Joshi from CSE, VIII sem, shift 1 stood amongst the 13 winners of Tata Imagination Challenge 2022. The event received overwhelming participation from students and Tata employees, with 2.3 lakh registrations from 8000+ campuses and 60+ Tata companies. The grand finale was held for 2 days at Bombay house on 22nd and 23rd Nov 2022. This is where the contestants and their ideas took center stage. Finalists were supposed to present an 'Elevator Pitch' of their idea to a panel of senior Tata leaders, and a 'Personal Pitch' on their life and career aspirations.



Shubham received a PPI opportunity at TATA Administrative Services and prize money of Rs. Two Lakh along with some goodies from Tata brands, access to Tata Tomorrow University and a certificate of Merit.

2. Stuti Agrawal of V Semester, Section B was selected among the top 10 participants from India for an on-site Hackathon in Bangalore, Code Like Ada organised by the company LG Ads Solutions on 9/10/2022. She along with one more team member made a successful project based on the APIs provided by the company and won the hackathon.

She also got an offer for Summer Internship in the company LG Ads Solutions with a stipend of 2.5L per month.

3. Winners of UIA Hackathon 2022 (Date 27/11/2022)

Team Named DORO BIRYANI are winners at UNESCO India-Africa (UIA) Hackathon 2022.

Our students from CSE 5B - Siddhant Jain was part of the team (as indian contestant member).

Problem Statement : DWSA22

Venue: Gautam Buddha University, Noida, UP.

Felicitation at the Hands of Hon. Vice President, Shri Jagdeep Dhankhadji and Minister of Education, Shri. Dharmendra Pradhan ji.



*Siddhant Jain is holding Cheque awarded by Hon. Vice President
Also, Ms. Tilottama Bhutada, a student of, CSE 5B, who was a part of other team,
is among the Top-5 finalist for the UIA Hackathon.*

4. A team of students -- NFTFier" -- of V semester CSE won the combined pool prizes of \$600+ from the following :

Covalent - \$200

- NFTPort - \$217.39
- Valist - \$113
- Push Protocol - \$85.10 at *ETHIndiaHackathon.

Students who participated were as follows:

(1) Ayush Shete CSE - 5B

(2) Harsh Gupta CSE - 5D

NFTFier primarily helps user to store Educational/Professional identities in the form of dynamic NFTs. It also acts as a platform to mint and retrieve user's NFTs.

The project was built using Biconomy SDK, Push Protocol, NFTPort, Valist, Covalent, Revise, MetaMask and ReactJS. (Date: 6th Dec 2022)

SNo.	Name of Student	Event	Achievement	Date
1	Srushti Ravishekhar Dhakate	GIT-FOR-GEEKS	Winner (1st position)	15-10-2022
2	Aditi Suresh Tiwari	'ALA DANSE' Group Dance Competition of AAROHI, VNIT, Nagpur	Winner (2nd position)	11-11-2022
3	Prathamesh Rajbhoj	IIT BOMBAY TechFest - CoDecode	Winner (1st position)	8-10-22
4	Prathamesh Rajbhoj	AutoCoders (Synergy) - Government College Of Engineering, Nagpur	Winner (1st position)	12-11-2022
5	Harheet Chordiya	Sujit IIT Bombay, TechfestCoDecode	Winner (3rd position)	8-10-22
6	Navya Mukul Verma	Inter Collegiate Basketball Tournament, Nagpur	Winner (2nd position)	13-10-22
7	Adishree Thakur (Sec-E)	HackMeHackathon, IIIT Nagpur	Runner up	16-10-2022
8	Rujuta Yugaonkar (Sec-E)	HackMeHackathon, IIIT Nagpur	Runner up	16-10-2022
9	Gaurav Kedia (Sec - E)	CoDecodeTechFes, IIT Bombay	Winner	08-10-2022
10	Madhav Dayanand Jha (Sec-E)	Autocoders Synergy, Autocoder	Winner	12-11-2022
11	Madhav Dayanand Jha (Sec - E)	CoDecodeTechFest, IIT Bombay	3rd Position	08-10-2022
12	Sambhav Mishra (Sec-E)	Vortex 4.0	Winner	14-09-2022
13	Vedant Padole (Sec - E)	Brain Strain	Winner	14-09-2022
14	Narayani Singh (Sec-C Cyber Security)	Cultural festival	Brand ambassador from RCOEM at Spring Fest -IIT KGP	11-07-2022 to 23-08-2022
15	Amit Mondal (Sec-C Cyber Security)	Hackathon	Among top 5 Finalist in India for given problem statement	24-08-2022 to 26-08-2022

Students in Higher Studies

- Atharva Nimbalwar of 2022 passout batch got admission into the Graduate School of Engineering at North eastern University as a Full-time Regular student in the Master's degree program.
- Abbas Hussain of 2022 passout batch got admission into the M.Tech. Computer Science and Engineering Programme at IIT Mandi.

Department of Electrical Engineering

Faculty Corner

Awards received by Faculty of department

Dr. Vinay Barhate was granted patent by Indian Patent Office on 29 Dec 2022 for his invention titled “A System and Method for Generator Protection against Power swing”.

Publications

1. Alok Ranjan, Dr. Sanjay Bodkhe, Dr. Gaurav Goyal and Dr. Mohan Aware published a paper titled “Heuristics EMS for HESS of Electric Vehicle to Extended Battery Operation Using Rate Limiter” in Journal of Advances in Electrical and Computer Engineering with ISSN 1582-7445 in November 2022 DOI:10.4316/AECE.2022.04002 Volume 22, Number 4, 202 (SCIE indexed).
2. Dr. Manjusha Palandurkar published a paper titled “Comparative Analysis of MPPT Techniques for Grid Connected 3 Phase Solar PV System” in Journal of East China University of Science and Technology with ISSN 1006-3080, Volume 65, Issue: 4, 2022, (Scopus indexed).
3. Mrs. S. V. Umredkar, Dr. R. Keshri, Dr. V. B. Borghate and Dr. M. M. Renge presented a paper titled “Dynamic Configuration of slot per pole per phase of an Induction Motor” at IEEE Conf. on Power Electronics, Drives and Energy System (PEDES 2022) at Malviya National Institute of Technology, Jaipur, 14-17 Dec 2022.
4. Dr. Archana Talhar and Dr. Sanjay Bodkhe presented a paper titled ‘Modified Electricity Tariff Models for Low Tension Clients of Maharashtra’ at IEEE Conf. on Power Electronics, Drives and Energy System (PEDES 2022) at Malviya National Institute of Technology, Jaipur, 14-17 Dec 2022.
5. Dr. Prachi Salodkar presented a paper titled “Modelling and Simulation of BLDC Electric Drive System for Hydrogen Powered E-Rickshaw” in the 4th International Conference on Electronic Systems, Signal Processing and Computing Technologies (ICESC-2022) during December 20-21, 2022, held at Shri Ramdeobaba College of Engineering and Management, Nagpur.

STTP/FDP/other Training Attended by Faculty

1. Dr P. A. Salodkar completed four week FDP course through Swayam NPTEL titled “Body Language: Key to Professional Success” in the month of Aug-Sept 2022 conducted by Indian Institute of Technology Madras.
2. Prof. (Ms.) M. B. Gaikwad successfully completed 12 weeks FDP Swayam NPTEL Programme on “Introduction to Internet of Things.” organized by IIT Madras during July to Oct 2022.
3. Prof. (Ms.) M. B. Gaikwad successfully completed 8 weeks FDP NPTEL Programme on “Introduction to Research.” organized by IIT Madras during August to Oct 2022.
4. Prof. (Ms.) M. B. Gaikwad successfully completed one-week online International Short Term Training Program on “Research Trends in EV Technology and Sustainable Microgrids-2022” organized by Department of Electrical Engineering, National Institute of Technology, Jamshedpur during November 5-9, 2022.
5. Dr. Manjusha V Palandurkar successfully completed 12 weeks FDP Swayam NPTEL Programme on “Design of Photovoltaic Systems” in the month of July-Oct 2022 conducted by Indian Institute of Technology Madras

Departmental Activities Industrial Visits

Dr. Vinay Barhate was granted patent by Indian Patent Office on 29 Dec 2022 for his invention titled “A System and Method for Generator Protection against Power swing”.

1. VISIT TO Industry ASHOK LAYLAND Pvt Ltd.

Students of B.Tech.(EE) Sem-V along with faculty members visited the industry Ashok Leyland Ltd Bhandara Manufacturing Plant on 22nd Nov 2022. This visit was conducted to support the theoretical knowledge gained by the students through the course “Non-Conventional Energy Sources” and Machines with drive system which is being studied by them as a part of curriculum. During this visit, the students got exposure to the complicated and robust machines used to fabricate gear box and engineering systems. Also students visited the Solar Power System installed in Industry. They witnessed the complete electrical installation of MSEB and solar power in industry.

The visit was organized by Prof. R. G. Deshbratar and was accompanied by Dr. S. C. Rangari. Around 42 students joined the same. The Chief Engineer of Ashok Leyland, Shri Sudhir Joshi and Executive Engineer Shri Rameshwar Bute extended their cooperation to make the visit very informative to the students.

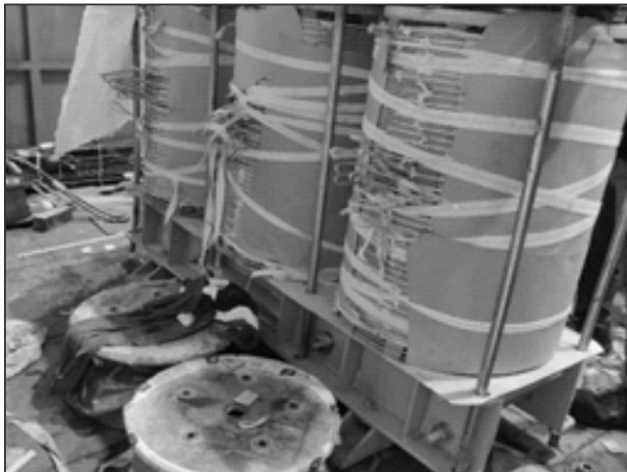


Glimpse of Students and staff in front of the Ashok Leyland

2. VISIT TO Industry High Rise Transformers

Students of B.Tech.(EE) Sem-V along with faculty members visited the industry High Rise Transformers on 22nd Nov 2022. High Rise Transformers is one of the prominent manufacturers, supplier and service provider of a wide range of transformers, in MIDC, Hingna road Nagpur. In today's world of competition, the work of a designer has gone up many times. So this study needs some convenient exposure of such systems, to develop a better practical understanding. This visit was conducted to support the theoretical knowledge gained by the students in the course Electrical Machines which is being studied by them as a part of curriculum. During this visit, the students got exposure to different types of transformers ranging from 5 KVA to a power transformer of 400 KVA ratings. Students also witnessed assembling of core with different sizes of stampings and windings of transformers, oil tank, conservator tank and breather, OLTC, transformer oil filter unit with detailed explanations. They have seen the computer software for design of transformer

The visit was organized by Dr V. A. Huchche and was accompanied by Dr. P.V. Kapoor. Around 24 UG students and 9 PG students joined the same. The Chief Engineer of High Rise Transformers, Shri Samir Jadhav and other Engineers extended their cooperation to make the visit very informative to the students.



Glimpse of Students visiting High Rise Transformers

Parents Meet, Alumni Meet and Departmental Installations or Events

1. Inauguration of IEEE Student Joint Chapter

The student joint chapter of the IEEE Power Electronics Society (PELS) and Industrial Electronics Society (IES) has started in the Electrical Engineering department. Installation of the new IEEE student chapter and EESA, the Electrical Engineering Students Association of the Department of Electrical Engineering held their installation ceremony on October 1, 2022.

Prof Mohan Lal Kolhe from University of Agder, Norway was the chief guest. Prof Sanjib Kumar Panda from National University of Singapore and Prof Pradyumn Chaturvedi, Chairperson of IEEE Bombay Section (PELS & IES) were the guests of honour. The ceremony started with lighting of traditional lamp and Saraswati Vandana. Dr Sanjay Bodkhe, Head of Department welcomed all dignitaries and highlighted the

objectives of the two student bodies, IEEE Student Chapter and EESA. Principal Dr Rajesh Pande welcomed the guests, congratulated the post holders and provided a brief overview of the college's accomplishments. Dr Gaurav Goyal and Dr Vijaya Huchche introduced the guests, followed by felicitation of guests at the hands of the Principal. Ritesh Jaiswal and Tanu Gupta were installed as Chairperson and Secretary of IEEE Student Chapter. Saurabh Sawarkar and Abhish Agrawal were installed as EESA President and Secretary. The chief guest along with guests of honour pinned badges to all the executive and working committee members of both student bodies.

Prof. Mohan Lal Kolhe emphasized on the importance of Clean Energy Transition. At the end he discussed about the initiatives that must be taken in order to achieve the goal of sustainable development through electrical engineering. Prof. Sanjib Kumar Panda was online. He appreciated the number of women position holders on the committee and advised students to be proactive and get benefitted by the opportunities provided by IEEE. Prof Pradyumn Chaturvedi briefed all about the importance of IEEE and the activities organized by IEEE Bombay Section.

At the end of the function, Mr. Ritesh Jaiswal, Chairperson, IEEE Student Joint Chapter proposed the formal vote of thanks. He thanked the college management for their motivation and support.



IEEE STUDENT JOINT CHAPTER OF PELS AND IES



EESA Student Committee

2. Extension Activity at Yuva Jyothi Orphanage “A small step towards better cause”

The Electrical Engineering Students' Association organized an extension activity at Yuva Jyothi Orphanage on 3rd December 2022 where all EESA members and faculty of the Electrical Department shared their happiness with the children of Yuva Jyothi Orphanage. The extension activity coordinators Abhijeet Bochkari (III Year) and Vihang Pathak (IV Year), in coordination with Ujwal Masane (III Year) and Vedant Ajane (IV Year), organized this activity under the guidance of Dr. Sanjay Bodkhe, HOD EE, RCOEM and Dr. Father. Herald Dsouza, Yuva Jyoti Orphanage.

The activity started with the introduction about college by Vihang Pathak, followed by an amazing presentation on electricity and its generation by Abhijeet Bochkari, who explained the generation of electricity and safety measures through animated videos. This was followed by a musical performance by Shashank Agrawal along with Taniya Jaiswal and Ujwal Masane. The programme ended with gift distribution to the children by HOD and the faculty of the Electrical Department.

It was a very pleasing and gratifying activity conducted by the extension activity coordinators, Abhijeet Bochkari and Vihang Pathak, along with Vedant Ajane and Ujwal Masane. Prof. M.B. Gaikwad, EESA Faculty Co-coordinator and Dr. G.N. Goyal, EESA Faculty Coordinator worked very hard for the success of this activity.



Glimpses of Extension Activity

3. Parent-Teacher Meet (Session 2022-23VII-Odd Semester)

Offline Parent-teacher meet was organized on 5/11/2022 (Saturday) at 12.00 noon in Electrical Department Library. Dr. V. A Huchche, PTM Coordinator welcomed all parents. All the course coordinators were present in the meet. Dr. V. A Huchche shared the details about student attendance in the class and their performance in the unit test-1 with parent. HOD, Dr. S. B. Bodkhe, discussed about opportunities of L&T Lab for students with parents.



Glimpses of the parent teacher meeting.

4.Orientation Program for III Semester B.Tech.

An orientation program for III semester B. Tech students was organized on 23rd December 2022 in the department. Prof. M. B. Gaikwad, the class teacher, hosted the event. The HoD(EE), Dr. S. B. Bodkhe shared information about the curriculum, evaluation process and the other academic provisions. He enlightened the students about various activities of EESA, special provision of academic flexibility like credit transfer against MOOC, L&T courses, Open Elective and Honor/Minor scheme of the college, six weeks and six months internship etc. He also gave the information regarding training and placement drive in detail. He emphasized the need for sincerity of students in terms of attendance, interaction, career-oriented planning and its implementation.



Glimpses of the Orientation Program

Conference, STTP and Guest Lectures organized in Department

S.No.	Conference/STTP/Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Opportunities for Electrical graduates in core Industry	Mr. Hitesh Harkare and Chinmay Harkare (PG -2015 batch) Director and Heads at Technodeal Enerpower Pvt. Ltd. Nagpur	Two Hour	15-10- 2022
2	Role of Electrical Engineer Graduate in Modern Industry	Eminent alumnus Mr. Jugesh Bansal, (UG -2012 batch). Experience in Plant Maintenance, TPM, project Management.	Two Hour	12-11-2022



Mr. Chinmay Harkare, Director, Technodeal Enerpower Pvt. Ltd. delivering his talk

Students' Corner

VII Semester Toppers List

Sr. No.	Name Students	SGPA	CGPA
1	Omhari Bipin Shrivastava	9.94	10
2	Saurabh Madhavrao Sawarkar	10	9.68
3	Siddhesh Ravindra Nandanwar	9.69	9.65
4	Tanu Anurag Gupta	9.88	9.49
5	Tejas B Sawai	9.06	9.48

Student Achievements

A. Placements:

Undergraduate Students

Sr. No	Roll No.	Name	Placed in 1st Company
1	1	Anjali Omprakash Singh	ADANI (CTC 6)
2	2	Deepti Sinha	LTI (5 LPA)
3	3	Devashree Girish Zalke	My Captain (5 LPA)
4	5	Gauri Uday Mujumdar	LTI(4 LPA)
5	11	Abhishek Shukla	ADANI (CTC 6)
6	18	Arpan Sudhir Wasnikar	LTI (4 LPA)
7	19	Arya Shirish Purohit	TCS (3.36 LPA)

8	20	Aryan Prakash Gangapari	My Captain (5 LPA)
9	23	Avishkar Rajurkar	Amadeus Software Labs(Internship)
10	24	Devesh Rajesh Mishra	LTI (5 LPA)
11	25	Dhruve Sanjay Sharma	Intellipaat (CTC 9)
12	31	Parthivi Ajay Gupta	TATA ELXSI (3.5 LPA)
13	36	Purva Jayant Virulkar	LTI (5 LPA)
14	37	Mrunmayi Sanjay Tongse	EY (6.5 LPA)
15	41	Eshan Sanjay Dhok	Hexaware (6 LPA)
16	44	Malhar Prasad Dani	LTI (4 LPA)
17	46	Mitesh Harendranath Dutta	EY (6.5 LPA)
18	47	Mohit Shubhash Nagpure	ADANI (CTC 6)
19	48	Omhari Bipin Shrivastava	LTI (4 LPA)
20	49	Pratham Shyam Gorle	ADANI (CTC 6)
21	52	Rishabh Singh Rupesh Singh Parihar	AcmeGrade (Internship 18K)
22	53	Ritesh Pravin Jaiswal	TCS (3.36 LPA)
23	54	Rohan Raj Shrivastav	Intellipaat (CTC9)
24	55	Rohit Rajesh Garse	Siemens
25	61	Riya Raghubarsharan Pandey	LTI (4 LPA)
26	63	Saloni Kachhwah	DXC(4.2 LPA)
27	64	Sarveshwari Umre	LTI (4 LPA)
28	65	Shalmali Pushpak Pathak	Siemens
29	66	Stuti Agrawal	ADANI (CTC 6)
30	68	Tanu Anurag Gupta	ADANI (CTC 6)
31	69	Udita Umesh Wankhede	EY (6.5 LPA)
32	71	Sahil Ayyub Sheikh	HFEC (CTC 6)
33	73	Saurabh Madhavrao Sawarkar	Siemens
34	74	Saurabh Virendra Patel	Siemens
35	76	Siddhesh Ravindra Nandanwar	TCS (3.36 LPA)
36	77	Tejas B Sawai	LTI (4 LPA)
37	78	Tejas Vinod Khandade	Siemens
38	80	Vedant Vasant Ajane	LTI (5 LPA)
39	81	Vedant Waman Fendar	TCS (3.36 LPA)
40	82	Vikram Harishchandra Rewatkar	LTI (5 LPA)
41	84	Vihang Shriram Pathak	LTI (5 LPA)
42	86	Abhish Shailesh Agrawal	My Captain (5 LPA)
43	103	Shivsunder Rajendra Laycha	Siemens
44	104	Abhimanyu Shivajirao Patil	Technodeal (Internship)
45	105	Sahiba Shoyeb Qureshi	DXC(4.2 LPA)
46	106	Sanket Murlidhar Shelki	TCS (3.36 LPA)

1. Mandar Y. Mohite, B.E Electrical, VIII Sem , Shubham V. Deshmukh , Sandeep S. Joshi and Ayush V. Khapekar¹ have published a paper titled " Theoretical and experimental investigations on the performance of passive cooling arrangement for solar photovoltaic module " in an Journal of the Brazilian Society of Mechanical Sciences and Engineering (2023) Vol.:(0123456789) 13. This journal is SCI indexed.
2. Miss Vaidehee Ashutosh Pathak, III year student of Electrical Engineering Department cadet of NO-2 (MAH) AIR SON NCC, NAGPUR and was selected as a part of "Aeromodelling Team" for Air Fest-2022 organised by Headquarters Maintenance Command, Indian Air Force.



Miss Vaidehee Ashutosh Pathak in Aeromodelling Team

3. Mr. Piyush Ambekar, an undergraduate of 2022 batch got commissioned as Sub. Lieutenant in Indian Navy. Currently, he is undergoing professional training on INS Valsura



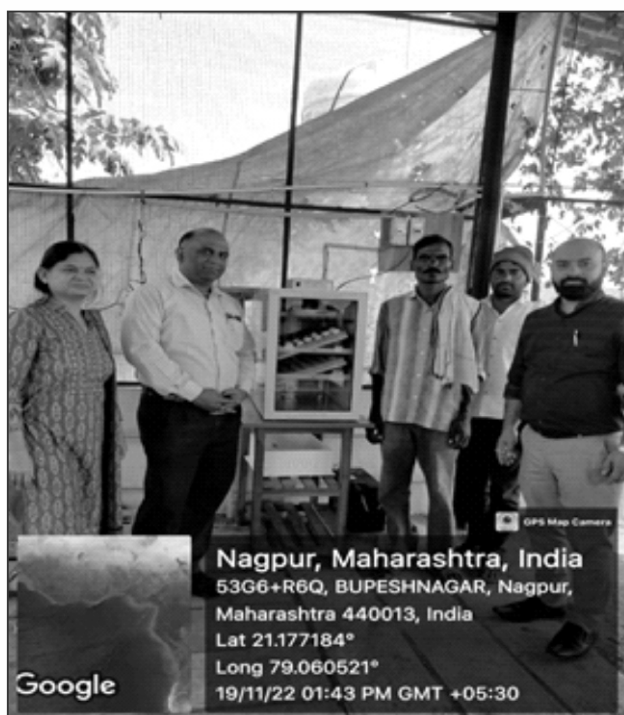
Mr. Piyush Ambekar

Any other activity (s):

Installation of Solar Powered Eggs Incubator at Muradpur (Unnat Bharat Abhiyan Project)

The project developed under the grant from Unnat Bharat Abhiyan, Ministry of Education, Govt of India has been successfully deployed at village Muradpur, Umred Tehsil, Nagpur on 19th Nov. 2022 . Muradpur is a village adopted by the institution under the UBA scheme

Dr. (Mrs) Preeti Kapoor has received a grant of for the project Rs. 1,00,000 /- for “Development of Solar Powered Eggs Incubator with Battery backup for Backyard Poultry Farming” under the Technology Development scheme of Unnat Bharat Abhiyan 2.0. In this project a solar powered Eggs incubator with battery backup facility has been developed. The full functional incubator has capacity to incubate 82 eggs and provision to maintain required temperature and eggs rolling. The principal investigator of the project is Dr. (Mrs) P.V. Kapoor and the team includes faculty members Dr. U.B. Mujumdar, Gaurav Goyal and Dr. Chandan Vichoray (UBA coordinator) along with the final year students. The work is carried out in Energy Research Centre, Electrical Department.



Photograph of Eggs Incubator, Project team and the beneficiary

Farewell Function

Prof. Jayant Joshi Associate Professor and Mr. Manoj Kothekar, Assistant Lab. Technician retired in October 2022. The department faculty members and supporting staff organized a farewell function in their honour and wished them a happy and healthy retired life.



Glimpses of Farewell function

Department of Electronics Engineering

Faculty Corner

Guest Lectures taken by faculty

Dr.Kanchan Dhote delivered a lecture on Routing Protocols and its applications in Wireless Sensor on 14th November 2022 at YCCE,Nagpur.

Publications

1. Dr B M Hardas published a paper in Journal of Mobile Multimedia, River Publishers with ISSN: 1550-4646, 1550-4654, Scopus.
2. Dr. P. U. Joshi published a paper titled Covid Security System Using IOT Monitoring System in International Journal of Next-Generation Computing (IJNGC) with Online ISSN: 0976-5034, WoS.
3. Prof. Shubham Anjankar, Dr. Pankaj Joshi, Prof. Pravin Dwaramwar published a paper titled Design and Analysis of Multipliers for DNN application using approximate 4:2 Compressors in International Journal of Next-Generation Computing (IJNGC) with Online ISSN: 0976-5034, WoS.
4. Prof. Vishal Rathee published a paper titled Development of Air Purification Facial Shield with Real Time Health Monitoring System in International Journal of Next-Generation Computing (IJNGC) with Online ISSN: 0976-5034, WoS.
5. Dr. Gauri Morankar published a paper titled Robust Image Encryption Scheme for Biometric Finger Print Images using Bit Planes, DWT and Cubic Map in International Journal of Next-Generation Computing (IJNGC) with Online ISSN: 0976-5034, WoS.
6. Prof. P. K. Joshi published a paper titled A study of dual phase lag model of heat transfer for solidification of binary eutectic alloy in Elsevier Material Today Proceeding with E-ISSN:2214-7853, Scopus.
7. Dr. Parag Jawarkar published a paper titled The Future Development Direction of Cloud-Associated Edge-Computing Security in the Era of 5G as Edge Intelligence in Scientific Programming with ISSN: 10589244, SCI.
8. Prof. Shubham Anjankar published a paper titled Comparison of Total Ionizing Dose Effect on Tolerance of SCL 180 nm Bulk and SOI CMOS Using TCAD Simulation in Lecture Notes in Electrical Engineering, Springer, Emerging Technology Trends in Electronics, Communication and Networking, Scopus.
9. Prof. Shubham Anjankar has published a paper titled Radiation Sensor Design for Mitigation of Total Ionizing Dose Effects in Lecture Notes in Electrical Engineering, Springer with ISSN: 1876-1119, Scopus.

STTP/FDP/other Training Attended by Faculty

1. Dr. S. S. Balpande attended a 1 week FDP on Emerging Technologies with applications in Electronics from 31st October – 4th November 2022 organized by IMS Engineering College, Ghaziabad.
2. Prof. Shubham Anjankar attended a 1 week FDP on Emerging Technologies with applications in Electronics from 31st October – 4th November 2022 organized by IMS Engineering College, Ghaziabad.
3. Dr. Gauri Morankar attended a 1 week FDP on Emerging Technologies with applications in Electronics from 31st October – 4th November 2022 organized by IMS Engineering College, Ghaziabad.
4. Dr. Deepali Kotambkar attended a 1 week FDP on Emerging Technologies with applications in Electronics from 31st October – 4th November 2022 organized by IMS Engineering College, Ghaziabad.
5. Dr. P. U. Joshi attended a 1 week FDP on Emerging Technologies with applications in Electronics from 31st October – 4th November 2022 organized by IMS Engineering College, Ghaziabad.

6. Dr. Deepali Kotambkar attended a 1 week IEEE CIS Summer School on Emerging Research Trends in Computational Intelligence Techniques to address Challenges in Biomedical Data and Imaging from 7-11 November 2022 organized by IEEE Computational Intelligence Society, IEEE Guwahati Subsection organized by National Institute of Technology Arunachal Pradesh, Jote, India.
7. Dr. S. S. Balpande attended a 1 week IEEE CIS Summer School on Emerging Research Trends in Computational Intelligence Techniques to address Challenges in Biomedical Data and Imaging from 7-11 November 2022 organized by IEEE Computational Intelligence Society, IEEE Guwahati Subsection organized by National Institute of Technology Arunachal Pradesh, Jote, India.
8. Dr. M. A. Hasamnis attended a 1 week IEEE CIS Summer School on Emerging Research Trends in Computational Intelligence Techniques to address Challenges in Biomedical Data and Imaging from 7-11 November 2022 organized by IEEE Computational Intelligence Society, IEEE Guwahati Subsection organized by National Institute of Technology Arunachal Pradesh, Jote, India.
9. Prof. Shubham Anjankar attended a 1 week IEEE CIS Summer School on Emerging Research Trends in Computational Intelligence Techniques to address Challenges in Biomedical Data and Imaging from 7-11 November 2022 organized by IEEE Computational Intelligence Society, IEEE Guwahati Subsection organized by National Institute of Technology Arunachal Pradesh, Jote, India.
10. Prof. Prachi Rane completed a 12 week NPTEL Course on Principles of Signal Estimation for MIMO/OFDM Wireless Communication from July-Oct 2022 organized by IIT Kanpur.
11. Dr. B. M. Hardas attended IEEE One Week Online Faculty Development Programme On “Wireless Communication Networks and its Applications from 24-29 November 2022 organized by Department of ETC, Yeshwantrao Chavan College of Engineering, Nagpur.
12. Prof. Shubham Anjankar attended a 1 week TCAD – Circuit Simulation Workshop from 1-5 August 2022 organized by INUP, IIT Bombay.

Departmental Activities

Industrial Visits

Consultancy or any other projects undertaken

Dr. S. S. Balpande has carried out a consultancy (Development of Mechatronics Lab) of Rs. 1.35 lacs for ELKEM South asia Pvt.Ltd, MIDC, Hingna, Nagpur from 1-30 November 2022.

Parents Meet, Alumni Meet and Departmental Installations or Events

The Parent - Teacher meeting of V semester and III semester Electronics Engineering was held on 15th October and 24th December 2022 respectively. The Meeting was chaired by Dr. (Mrs.) M. A. Hasamnis, Head, Electronics Engineering Department. Dr. (Mrs.) Hasamnis shared the information about various efforts and initiatives taken by the department for overall development of students. She also informed about Extra efforts and initiatives taken by the department for diploma holder students and academically weak students. The assessment method for internal theory/practical marks and academic policy was explained by academic Coordinator Prof. Smita Daware. The performance of the student in the Test-I examination and attendance record was shown to the parents. The effort required to be improve the academic performance of their ward was discussed by the respective subject teachers. The concerns expressed by the parents were addressed by Head of the department. The Parents expressed their satisfaction over the efforts taken by the department and the institute. Dr. B. M. Hardas, Parent-Teacher Meet In-charge conducted the proceedings of the meeting and proposed a vote of thanks.



Parent-Teacher Meet

New executive body of Electrolitz, Student's Society of Electronics Engineering, Shri Ramdeobaba College of Engineering and Management was installed on 26th November 2022 for the year 2022-23. Mr. Kuldeep Singh Rana, Delivery Center Program Manager at Tata Consultancy Services (TCS), Nagpur, was the Chief Guest and keynote speaker for the function.

The event commenced with Saraswati Vandana, followed by the anchors highlighting the Department's achievements. The anchors Ms. Khushi and Mr. Vineet gave introduction of Electrolitz Student's Society, its vision and mission. This was followed by Mr. Nilesh Chauhan, President, Electrolitz Society addressing the gathering where he briefed the audience about the various activities conducted by Electrolitz society like technical events namely ENTRIX, ENNOVATE etc. and also about the Branch Cup and Electrolitz society's approach to get it. He also mentioned the activities carried out under SEVA DISHA cell- a social wing of the society. Head of the Department, Dr. (Mrs.) Meghana Hasamnis in her address, highlighted some of the prominent achievements of the department and also motivated the students to strive for technical as well as co-curricular excellence. The Chief Guest of the function Mr. Kuldeep Singh Rana, inaugurated official annual magazine of Electronics Engineering Department, ENSPIRE'15 consisting of write-ups from departmental clubs and cells, various articles and artwork by students. In his address to the students Mr. Kuldeep briefed the students about the current trends in IT industry and what different roles an electronics engineer can play in it. He also briefed about his journey in the corporate world and answered to all questions raised by the attendees present in the meeting. Prof. Vishal Rathee and Prof. Snehal Laddha – Convener ENTHRONE, Prof. Parag Jawarkar – Member CDPC Cell and faculty members of Electronics Department were present to express their gratitude towards the chief guest for his time as well as to motivate and appreciate the students. The event received overwhelming response and more than 100 attendees were present in the installation ceremony that made this event successful.



Electrolitz-Electronics Engineering Students Society Installation



Electrolitz-Electronics Engineering Students Society Installation

Conference, STTP and Guest Lectures organized in Department

S. No.	Conference/STTP/Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Insights of VLSI Industry and Job opportunities	Mr. Ninad Paighan (alumnus electronics, 2019 batch, RCOEM), Design Verification Engineer II, Wafer Space, Bengaluru	2 Hrs.	15/10/2022
2	Partial Delivery of Course contents by Industry Expert	Mr.Himanshu Kumar, Indwell Automation, Mangaluru, India	3 Hrs.	18/11/2022
3	Career Opportunities in Supply Chain industry with scope and guidance for higher education abroad	Mr. Siddharth Gupta (alumnus electronics, 2020 batch, RCOEM), Master of Science (MSc.) in Supply chain and logistics management from University of Warwick, UK	2 Hrs.	19/11/2022
4	Guest lecture on Entrepreneurship	Mr. Ayush Mishra, Co -founder, Alentar Electric, Nagpur	1 Hrs.	01/12/2022
5	Horizon - knowing beyond	Mr. Likhith Agrawal (alumnus electronics, 2017 batch, RCOEM), Senior product analyst, RAZORPAY	2 Hrs.	03/12/2022
6	4th International Conference on "Electronic Systems, Signal Processing, and Computing Technologies"[ICESC 2022]	Department of Electronics Engineering, Shri Ramdeobaba College of Engineering and Management, Nagpur, Maharashtra, India, in association with the University of the District of Columbia. Washington, DC, USA	2 Days	December 20-21, 2022



Alumni Meet



Partial Delivery of Course by Mr. Himanshu Kumar, Indwell Automation, Mangaluru, India



Alumni Meet 2



Embedded Club Activity



Alumni Meet



4th International Conference on "Electronic Systems, Signal Processing and Computing Technologies "[ICESC 2022]

EN placement statistics: 2022-2023 batch

Company	Number of students placed
Total (IT and core sector)	157

Department of Electronics & Communication Engineering

Faculty Corner

Awards received by Faculty of department

1. Dr. S. B. Pokle granted a design Patent on “Stationary Holder” on 16-12-2022, Design No. 347734-001.
2. Dr. S. B. Pokle and Prof. Prasheel Thakre received the best paper award in 2nd International Conference on Innovative Computing and Applications (ICICA'22) for the paper titled “Optimal power allocation for NOMA-based Internet of things over OFDM sub bands”.
3. Dr. P. K. Parlewar and Prof. N. M. Borkar were granted a patent on “AN ULTRA-WIDE BAND PATCH ANTENNA” on 22-12-2022, Patent No.415203.
4. Dr. Bhumika Neole received BEST PAPER AWARD for outstanding paper entitled “Denoising of Digital Images using Cycle spinning algorithm with shifted DWT” in 2nd International Conference on Information Systems, Data Science and Cyber Security (ICIDC 2022) Dec 16-17, 2022 organized by Department of Computer Science and Engineering of Shri Ramdeobaba College of Engineering and Management, Nagpur in association with National Sun Yat-sen University (NSYSU) Taiwan.
5. Dr. Deepak Khushalani received the best paper award in 4th International Conference on “Electronic Systems, Signal Processing and Computing Technologies-ICESC 2022 for the paper titled “Power-Area Efficient Computing technique for Approximate Multiplier with Carry Prediction”.

Guest Lectures taken by faculty

1. Dr. Jagdish D. Kene delivered a expert Session on “Optimization of Cellular Networks in Mobile Wi-Max Environment” on 24th November, 2022 in IEEE ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME On “Wireless Communication Networks and its Applications” during 24th November-29th November 2022 at Yeshwantrao Chavan College of Engineering, Nagpur.

Publications

1. Dr. S. B. Pokle and Prof. Prasheel Thakre published a paper on “Outage Probability and Capacity Analysis for NOMA based 5G and B5G Cellular Communication” International Journal of Next Generation Computing, Special Issue, Vol.13, No.5, November 2022. PP-1079-1083. ESCI (Web of Science)
2. Dr. S. B. Pokle and Prof. Prasheel Thakre published a paper on “Optimal power allocation for NOMA-based Internet of things over OFDM sub bands” International Journal of Next Generation Computing, Special Issue, Vol.13, No.5, November 2022. PP-1189-1195. ESCI (Web of Science)
3. Mr. Siddhant Kumar, Dr. P. K. Parlewar, Ms. Rachana Sable published a paper titled, "Video enhancement using four quadrant curvelet transform of helium balloon security surveillance system" at 2nd International Conference on Information Systems, Data Science and Cyber Security (ICIDC 2022), Dec 16-17, 2022 organized by Department of Computer Science and Engineering of Shri Ramdeobaba College of Engineering and Management, Nagpur. In association with National Sun Yat-sen University (NSYSU) Taiwan. This paper will be further published in a special issue of International Journal of Next Generation Computing (IJNGC), Web of Science indexed Journal.
4. Dr. Mridula Korde published a paper titled "Human Recognition Model Using CNN" in International Journal of Next-Generation Computing - Special Issue, Vol. 13, No. 5, November 2022. pp 1125-1132 (Web of Science).

5. Dr. Bhumika Neole presented and received BEST PAPER AWARD Certificate for outstanding paper entitled “Denoising of Digital Images using Cyclespinning algorithm with shifted DWT” in 2nd International Conference on Information Systems, Data Science and Cyber Security(ICIDC 2022), Dec 16-17, 2022 organized by Department of Computer Science and Engineering of Shri Ramdeobaba College of Engineering and Management, Nagpur in association with National Sun Yat-sen University (NSYSU) Taiwan.
6. Dr. P. R. Selokar, Ms. Shreya Tope, Mr. Pukhraj Rathkantiwar, Ms. Sadnyani Gomkar and Ms. Aayushi Ganguli published a paper titled, "Sign Language Gesture to Speech Conversion Using Convolutional Neural Network" at 2nd International Conference on Information Systems, Data Science and Cyber Security(ICIDC 2022), Dec 16-17, 2022 organized by Department of Computer Science and Engineering of Shri Ramdeobaba College of Engineering and Management, Nagpur. In association with National Sun Yat-sen University (NSYSU) Taiwan. This paper will be further published in a special issue of International Journal of Next Generation Computing (IJNGC), Web of Science indexed Journal.
7. Prof. N. M. Borkar, Mr. Atharva Zararia Ms. Riddhi Gangbhoj, Mr. Prashant Kumar Ms. Vaishnavi Bhaiyya presented a paper titled, "Detection of Pneumonia using Deep learning " in 2nd International Conference on Information Systems, Data Science and Cyber Security(ICIDC 2022), Dec 16-17, 2022 organized by Department of Computer Science and Engineering of Shri Ramdeobaba College of Engineering and Management, Nagpur.
8. Dr. Deepak Khushalani received the best paper award in 4th International Conference on “Electronic Systems, Signal Processing and Computing Technologies-ICESC 2022 for the paper titled “Power-Area Efficient Computing technique for Approximate Multiplier with Carry Prediction”
9. Dr. Ajinkya Nilawar published paper titled “Pneumonia detection through Image Classification Using CNN” in the International Journal of Next-Generation Computing with ISSN 0976-5034, Volume 13, Issue 5, (WoS).
10. Prof. A.H. Harkare published a paper titled “Accuracy of Classifier Models in Presence and Absence of Outliers in a Time-Series Dataset of Air Quality” in Neuroquantology journal with ISSN 1303-5150, Volume 20, Issue 11 (Scopus)
11. Prof. A.H. Harkare published a paper titled “Orthogonal Feed Dual Band Rectangular Dielectric Resonator Antenna for Medical Image Sensing Applications” in Neuroquantology journal with ISSN 1303-5150, Volume 20, Issue 11 (Scopus)
12. Prof. A.H. Harkare published a paper titled “Real Time Fuel Adulteration Detection System for preventing Health Hazards” in Neuroquantology journal with ISSN 1303-5150, Volume 20, Issue 09 (Scopus)
13. Prof. A.H. Harkare presented a paper titled “Petmate” in ICESC 2022.
14. Dr. Chithraja Rajan published a paper titled “Aging Mechanism of pType Dopingless JLFET: NBTI and Channel Hot Carrier Stress” in Transactions on Electrical and Electronic Materials with ISSN 2092-7592, <https://doi.org/10.1007/s42341-022-00428-2> (DOI), Scopus.
15. Dr. Chithraja Rajan published a book chapter titled “Investigation of Tunnel Field-Effect Transistors (TFETs) for Label-Free Bio-sensing” in Nano-electronics for Next-Generation Integrated Circuits with ISSN 9781003155751, CRC Taylor and Francis, doi - 10.1201/9781003155751-6.

STTP/FDP/other Training Attended by Faculty

13. Dr. S. B. Pokle, participated in Two weeks Faculty Development Program (FDP) on “Innovation and Entrepreneurship” conducted by RCOEM TBI Foundation in association with Institution’s Innovation Council Shri Ramdeobaba College of Engineering and Management, Nagpur from 8-19 November, 2022.
14. Dr. Bhumika Neole attended one week FDP on “Wireless Communication Networks and its Applications” from 24 November 2022 to 29 November 2022 organized by Department of Electronics and Telecommunication Engineering, Yeshwantrao Chavan College of Engineering, Nagpur and Technically Sponsored by IEEE Nagpur Subsection.
15. Prof. N. M. Borkar, participated in Two weeks Faculty Development Program (FDP) on “Innovation and Entrepreneurship” conducted by RCOEM TBI Foundation in association with Institution’s Innovation Council Shri Ramdeobaba College of Engineering and Management, Nagpur from 8-19 November, 2022.

Parents Meet

Department of Electronics and Communication Engineering organized a Parent-Teacher Meeting for the session 2022-23 (ODD Semester) for V Semester on **15th October 2022 in hybrid mode**. Total 21 Parents submitted their comments and suggestions for the same.



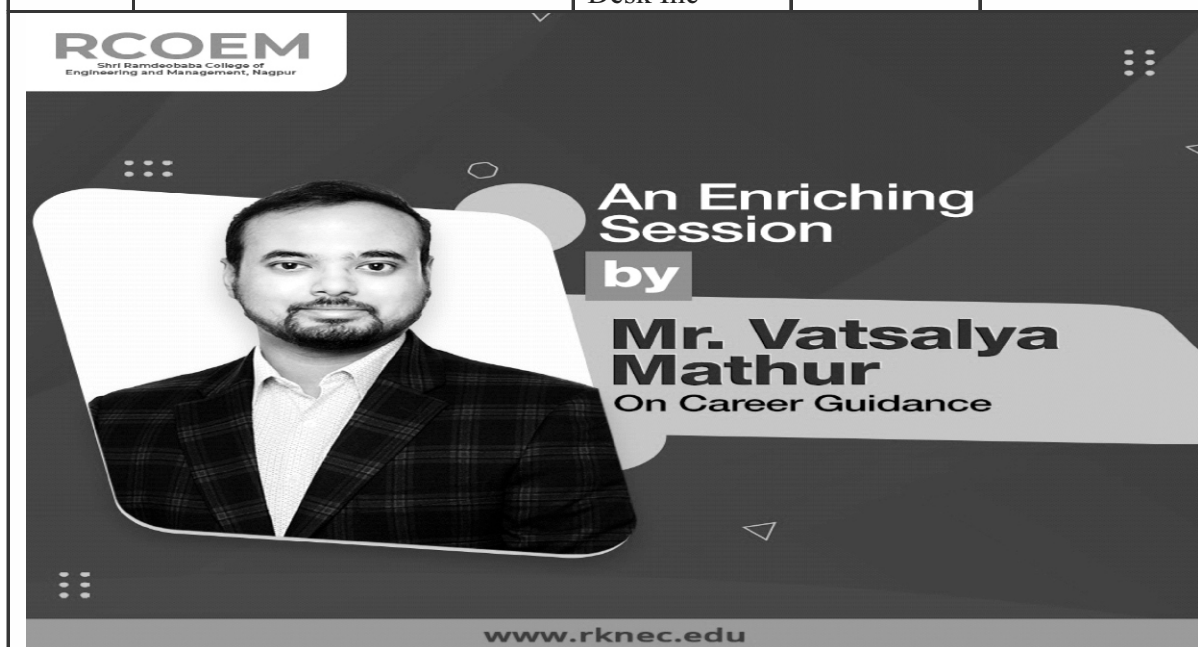
Parents Meeting Photos

Conference, STTP and Guest Lectures organized in Department

S.No.	Conference/STTP/Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	A guest lecture on "How to build a strong career in cloud"	Mr. Ronak Agrawal , Cloud Architect at Google	-	8th October 2022



2	A session on Career Guidance Bootcamp	Mr. Vatsalya Mathur, a tech lead at Auto Desk Inc	-	19th November, 2022
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Mr. Vatsalya Mathur, a tech lead at Auto Des k Inc

Students' Corner

Student Achievements

SNo.	Name of Student	Event	Achievement	Date
1	Kunal Sharma	University Chess Tournament; Venue: - St. Vincent Palloti college	1 st Position	12/10/2022
2	Kunal Sharma	Western Vocal Solo, DNC Tournament; Venue: - Dhanwate National College	1 st Position	29/09/2022
3	Yashashwi Wahie	Inter Collegiate Badminton Tournament: DNC Nagpur	3 rd Position	16-19 /11/2022