



RCOEM

Shri Ramdeobaba College of
Engineering and Management, Nagpur

2023

Reflection

NEWSLETTER

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LETTER FROM THE EDITOR

The fourth quarter of the calendar year started with events, research projects, consultancies, and placement activities. Ramdeobaba Alumni Connect Association organized a grand carnival event for alumni, students, teachers, and their family members. Departments conducted parent Meet, Webinars, Carrier guidance activities, and guest lectures. The faculty members participated in STTPs, FDPs, NPTEL, MOOC courses and presented the research work in reputed conferences and journals. Students from RCOEM enthusiastically took part in the RTMNU's Inter-Collegiate Tournament across various events during the period of October to December 2023.

NSS Unit organised Cleanliness Drive and Blood Donation camp. The underprivileged students of the neighbouring areas were provided with Computer Literacy by the students of NSS Unit under the Sahayog activity.

Temple committee organized Annakoot and various events in this Quarter.

Overall, this quarter saw the college delivering and gearing up for innovation and trying to achieve new milestones.

"To Succeed, you must have tremendous perseverance, tremendous will" - Swami Vivekananda

Happy Reading !!!

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

[A] Training Programs:

1] Four day's workshop on "Vehicle Interior Trim Design – CATIA V5" was conducted from 12th, 13th, 14th, and 15th Oct 2023 for students of Shri Ramdeobaba college of engineering & Management, St. Vincent Pallotti College of Engineering & Technology and G.H. Rasoni College of Engineering, Nagpur from 09.00 am –02.00 pm, conducted in association with G2G innovation, Pune at RCOEM-TATA-CIIIT. A total 24 students participated was coordinated by Dr. Y. M. Sonkhaskar and Shri Anil Jain. The training was given by Mr. Sujit Ubale.



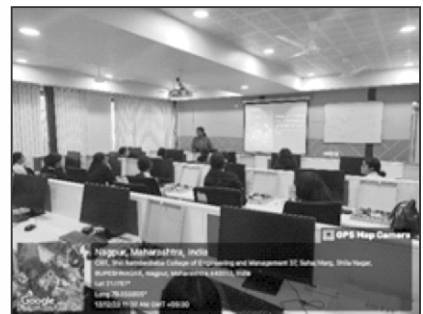
2] One day workshop on "Internet of Things (IoT) and Machine Learning" was conducted on 04th November 2023 for students of Shri Ramdeobaba College Engineering and Management, Nagpur from 10.30 am –5.30 pm, held at RCOEM-TATA-CIIIT and organized by Progressia. A total 44 students participated and was coordinated by

Mr. Vinay Dhawad, Mr. Sanskar Zanwar and Team.

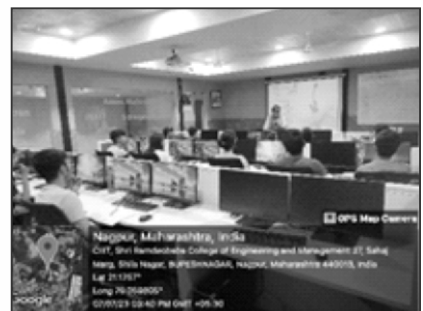




3] One day training program on “Solid Modeling, 3D Printing and Internet of Things (IoT)” was conducted from 12th to 16th December 2023 for students of **Bhavan’s Vidya Mandir School, Trimurti Nagar, Nagpur** from 10.30 am – 5.30 pm, held by RCOEM-TATA-CIIIT. A total 159 students participated. The training was coordinated by Dr. Alok Jha, Dr. Bhushan Bissa and Dr. V. V. Shukla for the solid modeling & 3D printing. The training on IoT was coordinated by Dr. Bhumika Neole & Dr. Chitranjan Rajan and hands-on session were taken by Mr. Shrikant Wankhede and Mr. Umendra Mukurane.



4] One-month [40 Hours] internship program on “Internet of Things (IoT)” was conducted from September to October for students of **Shri Ramdeobaba College of Engineering and Management, Nagpur** from 5.00 pm – 6.00 pm, held by RCOEM-TATA-CIIIT. The training program was coordinated by Dr. Chithraja Rajan and Dr. Bhumika Neole, faculty dept of AIML & ECE RCOEM.



[B] Consultancy & Project :

- **Mrs. Simran Kedia** of Biomedical Engg. Dept. printed 3D Parts for the project titled “**OSMF Mouth opening Device**”.
- **Mr. Aryan Gadge** of Mechanical Dept. Printed 3D Parts for the project competition conducted by “**Varroc Eureka Hackathon Final**”.
- **Mr. Sarthak Bhajwani** of Mechanical Dept. Printed 3D Parts for the project competition conducted by “**Varroc Eureka Hackathon Final**”.
- **Ms. Gargi Fand** of Electronics & Communication Dept. Printed “**Robotic Claw**”.

[C] Guest Lecture & lab Utilization :

- The students of Biomedical Engg. department were given the basic training on **Reverse Engineering** by Course Coordinator Dr. A. A. Deshpande on 04th, 11th Oct 2023.
- The students of Mechanical Department were given the basic training on **Laser Cutting & Engraving, 3D printing** by Course Coordinator Dr. P. S. Deole & Mr. Shrikant Wankhede from 09th to 11th Oct. 2023.
- The students of Mechanical Department were given the basic training on **Solid Modelling on Delmia V5** by Course Coordinator Mr. Shrikant Wankhede on 11th, 12th, 25th, 26th, and 30th Oct 2023.
- The students of Industrial Department were given the basic training on **Laser Cutting & Engraving, 3D printing** by Course Coordinator Mr. Shrikant Wankhede & Mr. Umendra Mukurane on 13th Oct 2023.
- The students of Mechanical Department were given the basic training on **IoT (Internet of things)** by Course Coordinator Mr. Umendra Mukurane on 30th Oct 2023
- The Students of RCOEM used IAM Center for the broadcasting shoot with Guest on 30th Oct 2023 and 23rd Nov 2023.



4) Summary of Visits to RCOEM-TATA-CIIIT :



J. D. College of Engineering & Management



J. D. College of Engineering & Management



Dean of Lata Mangeshkar Hospital & Team



Dr. Deepu Philip and Dr. Prashant Kumar, IIT Kanpur



Wainganga College of Engg. & Management



Wainganga College of Engg. & Management



NBA Committee at RCOEM



Shri Neerav Shah, a stalwart innovator & manufacturing expert from Gujarat



Tulsiramji Gaikwad Patil College of Engineering



Mr. Tejas Nyati, 1998 Civil Engg Alumnus



*Tulsiramji Gaikwad Patil College of
Engg. & Technology*



*Dr. N. K. Sharma, Vice-chairman
QCFI- Rajsamand Chapter*

Department of Civil Engineering

Faculty Corner

Guest Lectures taken by faculty :

- I. Dr. R. N. Khapre has delivered expert lecture on “Research Opportunities in Dentistry” organised by Ranjeet Deshmukh Dental College and Research Centre, Nagpur on 26-12-2023.

Publications :

Journal Publications :

- I. Prof. L. R. Gangwani et. al. have published a research paper on “Design Optimization of Water Distribution Networks with Dynamic Search Space Reduction GA” in Journal Water Resources Management (1573-1650) Dec-2023.
- II. Prof. S. S. Geete et. al. have published a research paper on, “Stability Analysis of Overburden Dump Slope of Coal/Mineral Mines:A Review” in Journal of Mines, Metals and Fuels (0022-2755) Dec-2023.

Conference Publication :

- I. Ritu Chauhan, Dr. S. P. Siddh have presented a paper on ‘Longitudinal Behaviour of Profiled Composite Slab: A Probe’, in Structural Engineering Convention SEC 2023 organised by VNIT, Nagpur, India on 7-9 December 2023
- II. Zabeen Siddhique, Prof. V. R. Harne have presented a paper on “Seismic Assessment of Vertical Irregular RC Buildings Designed Using DDBD and FBD Approaches” in Structural Engineering Convention SEC 2023 organised by VNIT, Nagpur, India on 7-9 December 2023
- III. Amit Khetan, Dr. P. D. Hiwase have presented a paper on “Analysis of Various Types of Slab and Their Comparison With the Conventional Slab” in Structural Engineering Convention SEC 2023 organised by VNIT, Nagpur, India on 7-9 December 2023
- IV. Prof. L. R. Gangwani, Shilpa Dongre, Rajesh Gupta have presented a paper on “Analysis of Optimal Solutions of a Benchmark Water Distribution Network” HYDRO 2023 organised by NIT Warangal on 20-22 December 2023
- V. Sumit Geete et. al. has presented a paper on “A Multi Criteria Decision Making Ranking Based on Over Burden Dump Slope Geometrical Parameters Using TOPSIS and PROMETHEE II Methods” in 12th Annual Conference on Deep Foundation Technologies for Infrastructure Development in India, organized by Deef Foundation Institute in Collaboration with IGS Baroda Chapter on 5-7 Oct 2023.
- VI. Pratiksha Jawalge and Dr. P. P. Dahale have presented a paper on “ Numerical Analysis of Stone Column Using Plaxis 3D” Indian Geotechnical Conference Roorkee organised by IIT Roorkee on 14-16 Dec 2023.

Patents Granted :

SN	Title of Patent	Name of Author (s)	Application No.	Date of Grant / Publication
1	A Method For Estimating Vertical Impact Factor Coefficients of High -Speed Railway Bridges	Anand M. Gharad Ranjan S. Sonparote	202021055007	13/12/2023 Granted
2	A System To Assess A Student And A Method There of	Anand M. Gharad	202021055005	15/12/2023 Granted
3	Use of metakaolin in cement based innovative repairing material	Dr. V. A. Dakwale, Dr. P. D. Pachpor	201721000076	06/12/23 Granted

Copyright Granted

SN	Name of Authors	Title of copyright	Registration No. & Date
1	Dr. S. P. Siddh, Mr. Shubham Mishra	Ready Reckoner Table For Bolt And Section Capacity Of Moment Connection In PEB	Literary Reg. No. L-138875/2023 (18/12/2023)
2	Dr. Tripti Gupta, Prof. Laxmi R. Gangwani, Mr. Kamalnayan Soni, Mr. Riddhesh Bele, Mr. Utkarsh Ghugal	Python Program For Design Criteria of Septic Tank For Wastewater Treatment In Rural Areas As Per Normal And IS Method	Computer Software Reg. No. S W-17745/2023 (08/12/2023)
3	Dr. Rajendra N. Khapre, Prof. Laxmi R. Gangwani, Mr. Kamalnayan Soni, Mr. Riddhesh Bele, Mr. Utkarsh Ghugal	Python Program For Design of Bar Screen	Computer Software Reg. No. S W- 17756/2023 (11/12/2023)
4	Dr. Rajendra N. Khapre, Prof. Laxmi R. Gangwani, Ms. Dhanishtha Gondhale, Ms. Simran Gour, Ms. Bhupali Katode	Python Program For Design of Staircase	Computer Software Reg. No. S W- 17757/2023 (11/12/2023)

5	Dr. Rajendra N. Khapre, Prof. Laxmi R. Gangwani, Mr. Madhur Laddha, Ms. Janhvi Barai, Mr. Jitendra Godhwani	Python Program For Design of Combined Rectangular Footing	Computer Software Reg. No. S W- 17759/2023 (11/12/2023)
6	Dr. Rajendra N. Khapre, Prof. Laxmi R. Gangwani, Mr. Pratham Choubey, Mr. Anuj Bakhshi, Mr. Dhruv Bajanghate	Python Program For Analysis And Design of Truss	Computer Software Reg. No. S W- 17760/2023 (11/12/2023)

STTP/FDP/other Training Attended by Faculty

- I. Dr. S. P. Siddh has successfully completed NPTEL-AICTE FDP on 'Advanced Reinforced Concrete Design' organised by IIT Madras from July-Oct 2023.
- II. Dr. S. P. Siddh has successfully completed NPTEL-AICTE FDP on 'Geotechnical Engineering Laboratory' organised by IIT Madras from July-Aug 2023.
- III. Dr. S. P. Siddh has successfully completed NPTEL-AICTE FDP on 'Research Methodology' organised by IIT Madras from Aug-Oct 2023
- IV. Prof. V. R. harne has successfully completed NPTEL-AICTE FDP on 'Accreditation and Outcome Based Learning' organised by IIT Madras from Aug-Oct 2023
- V. Prof. H. P. Khungar has successfully completed FDP on 'Emerging Trends in Construction Practice' organised by C. K. Pithawala College of Engineering & Technology from 3-7 Oct 2023
- VI. Prof. H. P. Khungar has successfully completed NPTEL-AICTE FDP on 'Research Methodology' organised by IIT Madras from Aug-Oct 2023
- VII. Dr. R. N. Khapre has successfully completed NPTEL-AICTE FDP on Numerical Methods for Engineers organised by IIT Madras from July-Oct 2023
- VIII. Dr. T. B. Gupta has successfully completed NPTEL-AICTE FDP on 'Research Methodology' organised by IIT Madras from Aug-Oct 2023
- IX. Dr. V. J. Rajurkar has successfully completed NPTEL-AICTE FDP on 'Subsurface Exploration: Importance and Techniques Involved' organised by IIT Guwahati from July - Sept 2023
- X. Dr. S. P. Siddh has successfully completed FDP on 'Emerging Trends in Construction Practice' organised by C. K. Pithawala College of Engineering & Technology from 3-7 Oct 2023

Departmental Activities

Parents Meet, Alumni Meet and Departmental Installations or Events

Alumni Meet :

The Department of Civil Engineering at RCOEM, Nagpur organized an Alumni Meet for the B. Tech. and M. Tech. program alumni of the 2022 and 2023 passed out batches. The event, held on 23rd December 2023, provided a meaningful platform for alumni to reconnect with old friends, network with peers, and share their experiences since leaving the institution. This gathering served as a testament to the enduring bond between graduates and their alma mater, reinforcing the institution's commitment to nurturing lifelong connections.



Parents Meet :

A Parent – Teacher Meet was organized by the Civil Engineering Department on Oct 28, 2023 (Saturday) from 11.00 a.m. to 12 Noon through offline mode for the current session 2023-24 (Odd Sem). The meeting was addressed by Head of the department, Dr. M.S. Kadu. It was attended by many faculty members of the department. This meet received a good response from the parents of III and V Semester students. 12 parents, 8 from 3rd sem and 4 from 5th sem, attended the offline meet and interacted openly. Following was the schedule for online parents teacher meet.



Department of Computer Science and Engineering

Faculty Corner

Guest Lectures taken by faculty

1. Dr. A. R. Raipurkar delivered a lecture on “Blockchain & its Application” on 12-Oct-2023 at Government Polytechnic, Nagpur
2. Dr. Ramchand Hablani, Prof. P. R. Pardhi, Dr. A. R. Raipurkar, Dr. S. Aote, Dr. Pravin Sonsare, Prof. D. Naidu, Dr. Khushboo Khurana, Prof. Heena Agrawal delivered technical training sessions on functional skill upgradation for WCL executives and manager from 04-Dec-2023 to 09-Dec-2023 at Western Coalfields Limited, HQ, Nagpur
3. Prof. P. R. Pardhi conducted a workshop on “App Development using Android” on 13-Dec-2023 at Government College of Engineering, Raipur.
4. Dr. A. R. Raipurkar conducted a workshop on “Blockchain & its Application” on 13-Dec-2023 at Government College of Engineering, Raipur.
5. Prof. Hitesh Gehani delivered a lecture on “Dynamic Programming” on 06-Oct-2023 at Anjuman College of Engineering & Technology, Nagpur.

STTP/FDP/other Training Attended by Faculty

1. Prof. Shubhangi Tirpude, Prof. Vrushali Bongirwar have attended One Week Online Faculty Development Programme on “Recent Trends in Blockchain Enabled Internet of Things” from 04/12/2023 to 08/12/2023 organized by “Department of Information Technology, NIT Jalandhar”.
2. Prof. Arti Buche and Prof. Borikar, Prof. Heena Agrawal have attended Five Days Faculty Development Program on "High Performance Computing" sponsored by NVIDIA from 11/12/2023 to 15/12/2023 organized by “Symbiosis Institute of Technology, Nagpur & Symbiosis Teaching Learning Resource Centre (STLRC), Pune”.
3. Prof. Borikar, Dr. Khushboo Khurana, Dr. Vasundhara Rathod, Prof. Nikita Katariya, Prof. Bhagyeshree Madan, Prof. Nisha Dable, Prof. Heena Agrawal have attended One-Week STTP on “Salesforce” from 18-12-2023 to 22-12-2023 organized by Centre of Excellence in High Performance Computing, AICTE idea Lab and Department of CSE, GH Rasoni College of Engineering, Nagpur.
4. Dr. Khushboo Khurana, Dr. Vasundhara Rathod attended Training Program on Statistical Analysis with Excel from 9/12/23 to 13/12/23 organized by “AISSMS Institute of Information Technology (IOIT) Research Foundation of India & RFI-CARE”.
5. Prof. Nikita Katariya has attended “12 week FDP on “Introduction to Machine Learning” from July 2023 to October 2023 organized by IIT Madras, NPTEL-AICTE.
6. Prof. Neha Zade, Prof. Gunjan Keswani attended 8-weeks FDP on “Research Methodology” from 21-8-2023 to 18-10-23 organized by NPTEL, AICTE.
7. Prof. Neha Zade, Prof. Kavita Kalambe attended 12-weeks FDP on “Machine Learning and Deep Learning – Fundamentals” from 24-07-2023 to 18-10-2023 organized by NPTEL, AICTE.

8. Prof.Gunjan Keswani has attended 12-weeks FDP on “Natural Language Processing” from 24-07-2023 to 18-10-2023 organized by NPTEL,AICTE.
9. Prof. Kavita Kalambe, Prof.Sunita Rawat have attended “AICTE Training And Learning (ATAL) Academy Faculty Development Program on Role of Machine Learning in Societal Development” from 04/12/2023 to 09/12/2023 organized by Priyadarshini College of Engineering.

Departmental Activities

Google Cloud Study Jam 2023

The Google Cloud Study Jam 2023, was organized by Google Developer Student Club (GDSC) from 3rd October to 30th October 2023. It was a comprehensive workshop on fundamentals of Google Cloud. The event, which commenced with an offline session on October 7, 2023, provided attendees with the opportunity to earn credit points for access to hands-on labs, a key component of the study jam. Further sessions were online and study material was provided by Google. Apart from this, participants were grouped into project teams, allowing participants to apply their newfound knowledge in real-world scenarios. In a significant achievement, RCOEM attained Tier 1 status as more than 80 students successfully completed the given track, underscoring the effectiveness and engagement of the program.



Participants attending the offline session of Google Study Jam-2023

Event : Product 101-Crafting Standout Products from Ideas

Google Developer Student Club (GDSC), RCOEM, hosted the event "Product 101 - Crafting standout Products from Ideas," on 18th November 2023, offering participants a deep dive into the intricacies of the Product Development Lifecycle. The event provided a comprehensive journey from the inception of an idea to product design and eventual launch, with insights delivered by esteemed industry experts. One of the distinguished speakers, Mr. Saish Adlak, Product Designer, GrowthX, Founding member, wrky.ai, a renowned creative mind, unveiled the secrets of design brilliance. Mr. Tejas Tapas, Product Manager, Bhanzu, a seasoned Product Management Expert, shared his journey from a Software Development Engineer (SDE) to spearheading initiatives like #LetsFightBack, supporting those navigating through layoffs. "Product 101" successfully bridged the gap between theory and practice, offering a platform for participants to explore, learn, and envision their roles in the exciting realm of product innovation. A total of 115 Participants attended the session.



*Mr. Saish Adlak, Product Designer,
GrowthX, Founding member, wrky.ai,
sharing his thoughts*



Team GDSC with the Experts

Blockchain Chapter

On the 2nd and 3rd November, Blockchain RCOEM Chapter organized a community COHORT to engage students into the world of Blockchain by introducing them to a wide number of concepts. This was led by Ayush Shete and Sunishka Malviya.

The aim of this event was to acquaint the attendees with concepts such as Smart contracts, Consensus mechanisms, Proof of Work. These sessions were mainly focused on the insights and providing hands-on exercises for a deeper understanding.



Attendees performing hands-on exercises

The focus of the session was to dive into the domain of WEB3 along with Blockchain, its types and languages. It also aimed at deeper understanding by conducting activities and a Q&A session.

The students gained a deep understanding of the decentralized nature of blockchain and its potential to revolutionize various industries. They learned the importance of cryptographic principles in securing transactions and data integrity. This session fostered a sense of curiosity and adaptability as students explored emerging trends and current developments in blockchain technology.

Conference, STTP and Guest Lectures organized in Department

SN	Conference/STTP/Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1.	Guest Lecture on “Career Guidance and Interview Preparation”	Ganesh Awchare (Quality Engineer at VMWare); Jayneeta Sinha (SMTS at Sales force); Roshan Nalawade (Software Developer at Crowd Strike); Anshit Raika (Application Engineer at Amazon); Rohit Kumbhalwar (Engineering Manager at Google)	03 Hours	28 Oct 2023
2.	Workshop on “Introducing Software Industry Practices in LAB Courses”	Nikhil Lanjewar, Founder & Slow Coach, SlowCo.in	02 Days	09-10 Nov 2023

Students’ Corner

Toppers List (Combined list of two shifts) if applicable VII Semester

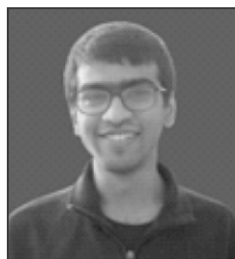
Sr.No.	Name	CGPA
1.	Anushka Dhalendra Kumar Shukla	10.0
2.	Zoya Nizar Ali Charaniya	10.0
3.	Sasi Venkata Kiran Gopalkrishna Rachapotu	10.0

Student Achievement TECHNICAL



Winner of SIH 2023- Team Lets Play Bold

"Let's Play Bold" Team, Comprising of Mohammad Faysal Khan (4th year, CSE-B), Zoya Charaniya (4th year, CSE-B), Vanshika Bais (4th year, CSE-B), Shubham Patel (4th year, CSE-B), Yogesh Manghrani (4th year, CSE-B) and Adarsh Nagrikar (3rd year, EN), secured the first position in the Smart India Hackathon 2023 with a prize money of 1,00,000 at GIET, Gunupur, Odisha. Their problem statement was "Analysis and Identification of Malicious Activities in Mobile Applications," provided by the Ministry of Power in the Blockchain and Cybersecurity domain. The students were mentored by Dr. Abhijeet R. Raipurkar, Assistant Professor, CSE, RCOEM and Prof. Praful R. Pardhi, Assistant Professor, CSE, RCOEM.



Aditya Bhattad, V Sem student of CSE stood the winner in ETHOnline 2023, ETHGlobal Hackathon for three organizations: Mantle, Axelar and Scroll. For Mantle he won the Build on Mantle track, for Axelar he won the Best Use of GMP track and for Scroll he won the pool Prize.

Patent Publication

- The Patent with IPO Application no. 202321064489 titled "A system for Biometric Authentication" written by the students of VII semester, CSE department, Siddhant Sandeep Jain, Ummesalma Badri, Yatharth Jain and Suhani Singh along with their Mentor Dr. Shubhangi Neware was published in October 2023.

Extra Curricular

S.No.	Name of Student	Event	Achievement	Date
1	Ansh Asati	Cricket, 23rd Dr. Panjabrao Deshmukh Krida Mahotsava, Dhanwate National College	2nd Position, 2500/- Prize	26-10-2023
2	Lavanya Chawla	Àla dance, Aarohi, VNIT	Winner (1st position), 15000 Rs.	27-10-2023
3	Mit Patel			
4	Gokul Gupta			
5	Shakti Zanzari			
6	Abhinav Tilwar	Unplugged, Musicals-Antaragni'23, IIT Kanpur	2nd Position	22-10-2023
7	Akshat Deshmukh			
8	Mimansa Deovrat Joshi	Badminton, 23rd Dr. Panjabrao Deshmukh Krida Mahotsava, Dhanwate National College	3rd Position	26-10-2023

Department of Computer Science and Engineering (CYBER SECURITY)

Faculty Corner

1 Awards (PhD/Patent awards...)

- Patent Application No. 202121006729 titled A System for Remotely Accessing Vehicles Filed by Rcoem, Welekar Rashmi, Sharma Aashutosh Ajay, Mehta Manthan Mukund, Mishra Parth Rajendra And Jain Nived Prashant

2 Guest Lectures delivered by Faculty

- Dr. Rashmi Welekar delivered a guest lecture on 19 April, 2023, at Regional Training Institute, Indian Audit & Accounts Department on topic "IT Security and Cyber Law"
- Prof. Kaushik Roy, delivered a one week online ISTE Approved FDP on 1st to 7th December 2023 at JD College of Engineering on topic "Data Driven: Technologies & its applications"
- Prof. Kaushik Roy delivered a guest lecture on 22nd December 2023 at SB Jain College of Engineering on topic "MongoDb"

a. Publications by Faculty

Dr. Charanjeet Dadiyala, Prasanna Tangade; Gaurav Singh; Vishal Bhutada; Ayush Bhattad; Nandan Partani; Rohan Jangid published a paper, "Designing and Implementing an Effective Cybersecurity Home Lab for Detection and Monitoring," 2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India, 2023, pp. 1-8, doi: 10.1109/ICCCNT56998.2023.10306937. (Scopus Indexed)

b. STTP/FDP/other Training Attended by Faculty)

- Dr. Charanjeet Dadiyala attended an online Conference and presented a paper in 14th International Conference on Computing Communication and Networking Technologies (ICCCNT) 2023 at IIT Delhi during 06 to 08 July 2023
- Dr. Charanjeet Dadiyala attended AICTE ATAL - EDUSKILLS Faculty Development Program on ZERO TRUST CLOUD SECURITY at MIT ADT UNIVERSITY, PUNE during 04 to 09 September 2023.
- Prof. Harshala Shingne attended AICTE ATAL - EDUSKILLS Faculty Development Program on FORTINET CERTIFIED ASSOCIATE (Online Mode) during 9th October to 14th October 2023.
- Prof. Firdous Sadaf attended Faculty Development Program on CYBER SECURITY AND PRIVACY organized by NPTEL-AICTE IIT MADRAS (Online Mode) during the month of July to Oct 2023
- Prof. Firdous Sadaf attended AICTE-TLB EDUNET FOUNDATION Faculty Development Program on BUILDING ADVANCED DATA ANALYTICS APPLICATIONS WITH CLOUD (Online Mode) during 21 November to 24 November 2023

Student Placement and Internship from T&P : Internship Data 2024

Roll No	Student Name	Email-Id	Company		Location	Stiped	Duration
1	Isha Bhagwan Singh Kushwah	kushwahib@rknec.edu	Solar Industries India Limited	Offline	Nagpur	10,000	6 months
2	Ishita Chauhan	chauhani@rk nec.edu	NVIDIA	Offline	Pune	40,000	5
3	Mahima Sharma	sharmam_2@rk nec.edu	Relecotec	Offline	Medical square, Nagpur	10,000	6
4	Narayani Prabhakar Singh	singhn_3@rk nec.edu	EC-Council	Offline	Hyderabad	30k	4
5	Netra Narendra Nachankar	nachankarnn@rk nec.edu	Riskwell Cyber Security Solutions Nagpur Pvt. Ltd	Offline	Nagpur	10,000	6
6	Priyanshi Khileshwar Bopche	bopchepk@rk nec.edu	Cloud 4C	Offline	Hyderabad	30,000	Na
7	Purva Pramod Bawankar	bawankarpp_1@rk nec.edu	VCF (Cyber Forces) Cyber Solution Pvt Ltd	Offline	VCF Office, Nagpur, Maharashtra	10,000/-	6 Months

8	Saitejaswi Deekshit Sanagavarapu	sanagavarapud @rknc.edu	Infosys	Offline	Hyderabad		
9	Varija Vaibhav Gupte	guptevv@ rknc.edu	Cloud 4C	Offline	Hyderabad	Above 10,000	6 months
10	Aantorika Sur	sura@ rknc.edu	RISEWELL cyber solutions pvt ltd	Offline	Nagpur	10,000	6
11	Abhishek Vinod Ashtankar	ashtankarav @rknc.edu	C&R Software	Offline	Bangalore	25,000	6
12	Adnan Saifuddin Saifee	saifeeas@ rknc.edu	Krypto Mindz Technologies	Offline	Nagpur	10,000	6
13	Aekansh Umesh Kathal	kathalau@ rknc.edu	NG Media	Online	NA	10,000	180 days
14	Ajay Jitendra Batra	batraaj@ rknc.edu	AceTechVe ntures Pvt. Ltd.	Offline	Nagpur	10,000	5
15	Ankit Shyam Khandelwal	khandelwalas _2@rknc.edu	VCF Nagpur	Offline	Nagpur	10,000	6
16	Ayush Devidas Bhojwani	bhojwaniad_1 @rknc.edu	Solar Group	Offline	Nagpur	10,000	6
17	Darshan Rambabu Rayala	rayaladr@ rknc.edu	Git Consultancy Services	Offline	Nagpur	10,000	6
18	Harsh Prem Mundhada	mundhadahp @rknc.edu	Scrut automation	Offline	Banglo re	25,000	3 months

19	Karan Shivshankar Harode	harodeks@rk nec.edu	Solar industries India	Offline	Nagpur	10,000	6
20	Mudit Brajesh Kumar Malviya	malviyamb@rk nec.edu	Innovapptive	Offline	Hyderabad	25,000	6 months
21	Nandan Rajesh Partani	partaninr@rk nec.edu	Ace tech ventures pvt ltd	Offline	Nagpur	10,000	6 months
22	Onkar Girish Deshmukh	deshmukhog@rk nec.edu	Cloud4C	Offline	Hyderabad	NA	NA
23	Pratham Chandrakant Paliwal	paliwalpc@rk nec.edu	Nedient technology pvt. ltd	Offline	Bhagwan nagar, nagpur	10,000	6
24	Prathamesh Pankaj Bhujbal	bhujbalpp@rk nec.edu	Vigilante Cyber Forces	Offline	Nagpur	10,000	6 months
25	Prathamesh Vijay Tidke	tidkepv@rk nec.edu	Solar Industries	Offline	Nagpur	10,000	6 months
26	Rahul Anil Patekar	patekarra@rk nec.edu	Cloud4c Services	Offline	Hyderabad	30,000	NA
27	Rahul Harish Ahuja	ahujarh@rk nec.edu	Scrut Automation	Offline	Banglore	25,000	3 months (extendable)
28	Sarthak Ritesh Agrawal	agrawalsr_12@rk nec.edu	Apna	Online	NA	15,000	6 months
29	Shrenik Gajanan Mehar	meharsg@rk nec.edu	Sahaj AI Software	Offline	Bangalore/ Pune	32,000/ month (Fixed + Variable)	6

30	Tejas Prakash Dongre	dongretp1@rk nec.edu	Solar industries	Offline	Nagpur	10000	6 months
31	Vedant Anil Khuje	khujeva@rk nec.edu	Cloud4c	Offline	Hyderabad	NA	2 months
32	Vedant Prashant Bangde	bangdevp@rk nec.edu	Solar Industries	Offline	Nagpur	10,000	6
33	Yashasvi Prabhat Srivastava	srivastavayp@rk nec.edu	Cloud 4C	Offline	Hyderabad	30,000	6 months
34	Gaurav Singh	singhgl@rk nec.edu	Gbj buzz	Online	Na	12,000	6
35	Prasanna Rameshwar Tangade	tangadepr@rk nec.edu	GBJ Buzz	Online	NA	12,000	6

Placement Data

Roll No	Student Name	Email-Id	Status	Company	Package
1	Anisha Singh	singha_7@rk nec.edu	Placed	Accenture	4.5
2	Isha Bhagwan Singh Kushwah	kushwahib@rk nec.edu	Placed	IBM	4.5
3	Ishita Chauhan	chauhani@rk nec.edu	Placed	NVIDIA	14
4	Priyanshi Khileshwar Bopche	bopchepk@rk nec.edu	Placed	Cloud4c	4
5	Purva Pramod Bawankar	bawankarpp_1@rk nec.edu	Placed	TIAA	10.48
6	Saitejaswi Deekshit Sanagavarapu	sanagavarapusd@rk nec.edu	Placed	IBM	4.5
7	Sanskriti Ashish Sood	soodsa@rk nec.edu	Placed	IBM	4.5
8	Shruti Shivkumar Shukla	shuklass_3@rk nec.edu	Placed	Accenture	4.5

9	Simran Chandrakumar Gidwani	gidwanisc@rknec.edu	Placed	Accenture	4.5
10	Vaidehi Sunil Kambe	kambevs@rknec.edu	Placed	TIAA	10.48
11	Varija Vaibhav Gupte	guptevv@rknec.edu	Placed	Cloud4c	4
12	Abhishek Vinod Ashtankar	ashtankarav@rknec.edu	Placed	IBM	4.5
13	Adnan Saifuddin Saifee	saifeeas@rknec.edu	Placed	TIAA	10.48
14	Ashutosh Asim Shrivastava	shrivastavaaa_3@rknec.edu	Placed	Hexaware	6
15	Ayush Devidas Bhojwani	bhojwaniad_1@rknec.edu	Placed	D.E Shaw	23
16	Ayush Umesh Jain	jainau@rknec.edu	Placed	Accenture	4.5
17	Darshan Rambabu Rayala	rayaladr@rknec.edu	Placed	Accenture	4.5
18	Mudit Brajesh Kumar Malviya	malviyamb@rknec.edu	Placed	Innovapptive	5
19	Onkar Girish Deshmukh	deshmukhog@rknec.edu	Placed	Cloud4c	4
20	Prashant Pramod Singh	singhpp_3@rknec.edu	Placed	IBM	4.5
21	Pratham Chandrakant Paliwal	paliwalpc@rknec.edu	Placed	IBM	4.5
22	Prathamesh Pankaj Bhujbal	bhujbalpp@rknec.edu	Placed	Accenture	4.5
23	Rahul Anil Patekar	patekarra@rknec.edu	Placed	Cloud4c	4
24	Sarthak Ritesh Agrawal	agrawalsr_12@rknec.edu	Placed	Accenture	4.5
25	Shrenik Gajanan Mehtar	meharsg@rknec.edu	Placed	Sehaj	13

26	Shubham Shailendra Singh	singhss19@rknc.edu	Placed	Accenture	4.5
27	Vedant Anil Khuje	khujeva@rknc.edu	Placed	Cloud4c	4
28	Vedant Prashant Bangde	bangdevp@rknc.edu	Placed	IBM	4.5
29	Yash Vinay Watve	watveyv@rknc.edu	Placed	Accenture	4.5
30	Yashasvi Prabhat Srivastava	srivastavayp@rknc.edu	Placed	Cloud4c	4
31	Yashwant Digambar Bisen	bisenyd@rknc.edu	Placed	Accenture	4.5

Departmental Activities

1. Parents Meet

The Parent-Teacher Meet was conducted at the Department of Computer Science & Engineering (Cyber Security) on 16 September, 2023 for VII Semester and on 28th October, 2023 for III & V Semester CSE-Cyber Security.

The meeting was commenced by the Head of Department, Dr. R. Welekar. She had interacted with the parents, and students and discussed students' achievements, results, placement activities, internships, and elevated alumni positions during the meeting. She also suggested various solutions for student's queries to improve their performance.

The parents were given general observations about their ward's performance in the Internal Test by the class in-charge and course coordinators. The parents also discussed the problems and suggestions for improvement in the subjects with the respective subject teachers.

The parents filled out the feedback form and also suggested various ways of improvement. Parents were convinced and offered their support regarding student activities and development to the department. Overall, it was a successful event with much input and praise from the parents.

2. Departmental Events for Students

1) **Title :** Opening Ceremony of AARHANT'23

Date : 04/10/2023

Time : 11:00 AM to 1:00 PM

The Cyber Security Department proudly inaugurated "Aarhant '23" at the Main Auditorium, commencing at 11 am. This three-day event promises a convergence of knowledge, innovation, and expertise in the dynamic field of cyber security. Distinguished Chief Guests were Major General S.K. Vidyarthi, AVSM, SM, General Officer Commanding – UM & G. 2. Brigadier Suhaas M Kulkarni 3. Pravin Muley, CEO, Micorscan Communication PVT. LTD.

2) **Title :** Ethical Hacking Workshop

Name of the speaker : Isha Mujumdar, CEO, VCF Technologies, Nagpur

Date : 04/10/2023

Time : 2:00 PM to 4:00 PM

On 04 October 2023, the department of Cyber security organised a workshop on “Digital Forensic”. The workshop was conducted by Isha Mujumdar who brought his extensive experience and expertise to enlighten our students about Ethical Hacking. Gain a solid understanding of the fundamental principles, concepts, and methodologies associated with ethical hacking.

Develop a keen awareness of the legal and ethical considerations surrounding ethical hacking practices, ensuring participants are well-informed about the boundaries and responsibilities associated with this field.

3) **Title :** Digital key Quest

Date : 05/10/2023

Time : 2:00 PM to 5:00 PM

On 05 October 2023, the department of Cyber security organised an event called “Digital Key Quest”. The event was designed to provide students with a unique blend of cryptography and cybersecurity concepts while offering a fun and engaging experience. The event consisted of three rounds, each challenging participants to showcase their problem-solving skills, teamwork, and analytical thinking. Enhanced Understanding of Cryptography and Cybersecurity Concepts: Participants gained practical insights into cryptography and cybersecurity concepts by actively applying them to solve challenges throughout the three rounds.

Developed Problem-Solving Skills: The challenges presented in each round tested and honed participants' problem-solving skills.

Promoted Teamwork and Collaboration: The structure of the event, with its emphasis on three rounds, encouraged participants to collaborate and work as a team.

4) **Title :** Report on Cyber Crime Prevention and Cyber Law Workshop

Date : 05/10/2023

Time : 2:00 PM to 4:00 PM

Speaker Name : Vausha Yadav (Senior Security Analyst in MicroScan)

On 05 October 2023, the department of Cyber security organised a Workshop on “Cyber Crime Prevention and Cyber Law ”. The workshop was designed to provide a comprehensive understanding of cybersecurity, focusing on cyber laws, cybercrimes, preventive strategies, and their real-world implications. Increased Knowledge on Cyber Laws: Participants gained a comprehensive understanding of cyber laws, including the legal framework governing cyber activities. Awareness of Cyber Crimes: The workshop addressed various types of cybercrimes, making participants aware of the diverse threats prevalent in the digital realm. Empowerment with Preventive Strategies: Participants were empowered with practical preventive strategies against cybercrimes.

5) **Title :** Report on DRDO Orientation

Date : 05/10/2023

Time : 4:00 PM to 6:00 PM

Speaker Name : Dr. Kumud Ranjan (Research Scientist, Temasek laboratories – NTU, Singapore)

On 05 October 2023, the department of Cyber security organised an DRDO Orientation Program. The program was designed to provide a comprehensive understanding of DRDO and its work culture along with the technologies used. Enhanced Understanding of DRDO: Participants gained a comprehensive understanding of DRDO, including its mission, objectives, and the scope of its work in defence research and development.

Insight into Work Culture: Attendees were exposed to the work culture at DRDO. This likely included information about the organizational ethos, values, and the collaborative environment within the organization. Technological Awareness: The program focused on familiarizing participants with the technologies used at DRDO.

6) **Title :** Report on Modern United Nation

Date : 06/10/2023

Time : 10:00 AM to 4:30 PM

On 06th October 2023, the department of Cyber security organised an event called as Modern United Nations. The United Nations Cyber Council (MUN), organized in Aarhant '23, assumes a central role in global cybersecurity governance. MUN addressed cyber threats, established norms for responsible state behaviour in cyberspace, and safeguarded digital rights. In an era of unprecedented connectivity, the Council emerges as a linchpin for creating a secure, innovative, and equitable digital environment through collective diplomatic efforts and policy formulation. Participants likely gained a heightened awareness and understanding of the complex challenges posed by cyber threats. The focus on safeguarding digital rights is expected to lead to concrete measures and policies aimed at protecting individuals' rights in the digital realm. The event likely facilitated enhanced collective diplomatic efforts among member states.



Glimpses of MUN Event during Aarhant '23

7) **Title :** Report on Open MIC

Date : 06/10/2023

Time : 4:30 PM to 6:30 PM

On 06th October 2023, the department of Cyber security organised an event called Open MIC. Open mic was a live performance event where everyone took the stage and showcased their talents such as poetry, music, comedy and storytelling and other art forms. The registration for this event was done through google forms as per the respective categories. Students registered through google forms were given priority during the scheduling of the event, on-spot entries were taken after that. The event likely featured a diverse range of performances, including poetry, music, comedy, storytelling, and other art forms. The shared experience of live performances in a supportive environment likely contributed to community building. The diverse array of performances would have created an engaging and enjoyable experience for the audience.



Glimpses of Open Mic Event during Aarhant '23

8) **Title :** Report on Imposter Hunt

Date : 07/10/2023

Time : 8:00 AM to 1:00 PM

On 07th October 2023, the department of Cyber security organised an event called Imposter Hunt. In this immersive adaptation, players took on the roles of crewmates and impostors, engaging in a suspenseful imposter hunt that tested their teamwork, deception, and deductive skills in a physical setting. By incorporating cybersecurity considerations into 'Imposter Hunt', participants can not only enjoy the game but also gain valuable insights into the real-world importance of cybersecurity awareness and vigilance. Gain a solid understanding of the fundamental principles, concepts, and methodologies associated with ethical hacking.

Develop a keen awareness of the legal and ethical considerations surrounding ethical hacking practices. Acquire practical, hands-on skills through real-world simulations and exercises, enabling participants to apply ethical hacking techniques to identify and address vulnerabilities effectively.



Glimpses of Imposter Hunt Event during Aarhant '23

- 9) **Title :** Report on Catch the Flag
Date : 07/10/2023
Time : 2:00 PM to 5:00 PM

On 07 October 2023, the department of Cyber security organised an event called “Catch the Flag”. The event was focused on a series of questions, each meticulously crafted to challenge participants' cybersecurity expertise and problem-solving abilities. These questions covered a range of domains, offering a comprehensive test of participants' knowledge and skills.

To add an extra layer of strategy and competition, each participant was allowed to take at most three hints per question. However, with each hint taken, the points offered per question were deducted, making it a thrilling test of both skill and resourcefulness. The event likely revealed cybersecurity experts who excelled under pressure, demonstrated strong problem-solving skills, and showcased the ability to make strategic decisions in a competitive environment. This feature transformed the event into a thrilling test of both skill and resourcefulness, requiring participants to carefully consider when to seek assistance and when to rely on their own capabilities.



Glimpses of Catch the Flag Event during Aarhant '23

a. Conference, STTP and Guest Lectures organized in the Department (Prof. Ankit Mahule)

Sr. No.	Guest Lectures Organized	Speaker (with Affiliation)	Duration	Date
1	Resume building and Business Communication and Interview Preparation	Allan Abraham, Innovation, Incubator Manager, RCOEM T&P/R&D	4 Hours	25-Mar-23, 01-April-23
2	Zero Trust Security	Mr. Abhir Naik, Palo Alto Networks	2 Hours	13-Oct-23
3	Transitioning from Campus to Corporate : Navigating the Professional World	Ms. Shipra Dixit	2 Hours	15-July-23
4	Emerging Trends in Cyber Threat Landscape	Mr. Gaurav Rahate	2 Hours	15-July-23
5	Recent Career Opportunities in Cyber Security	Mr. Gaurav Rahate	2 Hours	22-Oct-23
6	How to improve the Problem-Solving Methodology in Programming	Mr. Gaurav Rahate	2 Hours	22-Oct-23

Students' Corner

Toppers List

Programme : B.Tech CSE Cyber Security

Sr. No.	VII Semester
1	Adnan Saifuddin Saiffee (10)
2	Isha Bhagwan Singh Kushwah (9.43)
3	Onkar Girish Deshmukh (9.32)

Student Achievements

- Ameya Gadhikar III Sem CSE (CYSE) participated in a debate on the topic "A Battle of wits and words" on 27th - 29th October 2023 in IIM Indore campus, Indor. This Intervarsity Debate is a British Parliamentary debate consisting of four teams: two government teams and two opposition teams. The government teams propose a motion, while the opposition teams oppose it. The debate focuses on persuasive argumentation, logical reasoning, and rhetorical skills. Judges evaluate the teams based on their content, style, and strategy. It encourages critical thinking, teamwork, and effective communication.
- In a remarkable display of academic excellence, six outstanding students from the Computer Science and Engineering (CYSE) department have etched their names in the annals of achievement. Saloni Vishwakarma, Aditya Lodhi, Priyanshi Acharya, Samruddhi Rathi, Sharvari Gohane, and Siddhant Shukla, all currently in their fifth semester, have earned the distinguished honour of being shortlisted for the prestigious Smart India Hackathon (SIH) 2023 Grand Finale. Their commendable skills and dedication underscore not only their individual prowess but also reflect the high standard of education and innovation fostered within our department. This achievement stands as a testament to their hard work, ingenuity, and the department's commitment to nurturing talented individuals. Congratulations to these exceptional students on reaching this significant milestone, and we look forward to witnessing their continued success in the Grand Finale.



Glimpses of Student Participation in the prestigious Smart India Hackathon (SIH) 2023 Grand Finale

- In a commendable showcase of innovation and commitment, Ansh Bakshi, a sixth-semester student, has made a significant mark by participating in the Yukti National Innovation. Ansh played a pivotal role in the creation of an application designed for both the Ministry of Law and Justice and the Ministry of Jal Shakti. This accomplishment not only highlights Ansh's dedication to leveraging technology for societal impact but also underscores the practical application of academic knowledge. His active involvement in such a prestigious event reflects positively on our institution, emphasizing our commitment to fostering a culture of creativity and problem-solving. Congratulations to Ansh Bakshi for his valuable contribution to the Yukti National Innovation, exemplifying the spirit of innovation and excellence within our student community.
- Rishi Khoriya, student from 5th sem CSE (CYSE), has achieved a notable milestone by being shortlisted for the Retirement Industry AI Hackathon in the T3 Track. Rishi's exceptional skills and innovative mindset have earned him this distinguished opportunity to showcase his prowess in the field of artificial intelligence within the retirement industry. This accomplishment not only reflects Rishi's dedication to staying at the forefront of technological advancements but also highlights the quality of education and mentorship within our academic community. We extend our heartfelt congratulations to Rishi Khoriya and eagerly anticipate the success he is bound to achieve in the upcoming stages of the hackathon. His achievement is a testament to the caliber of our students and their potential to make meaningful contributions in cutting-edge domains.
- We are thrilled to announce the stellar achievement of Anushree Thosar, a third-semester student from the Computer Science and Engineering (CYSE) department. Anushree has exhibited exceptional athleticism and sportsmanship by securing the 2nd position in the University-level Basketball Tournament. Her dedication to both academics and sports is truly commendable, reflecting the well-rounded excellence we strive to nurture in our students.



*2nd position in the University-level Basketball Tournament win
by Ms. Anushree Thosar (2nd Year, CSE CYSE)*

Students in Higher Studies

Library

CSE : Cyber Security department was separated in Academic session 2023-2024. We are in the process of forming the departmental library. We have in total 281 books in the central library for the Cyber Security department. The faculty has recommended a few books to be added in the departmental library. The Cyber Security Department was formed in academic session 2020- 2021. The department's first batch is currently in the 8th semester with the strength of 69 students. At the start of the session, 15 groups were created for the 7th semester project. After the final presentation, all groups submitted their final thesis in the department library.

Department of Computer Science and Engineering-AIML

Faculty Corner

Awards / Recognition Received by Faculty of Department

Prof. Deepa Das has been selected for final pitching on the themes “Design and Packaging” / “5G & 6G Technologies” under INUP-i2i program during the 8th International Conference on Advanced Nanomaterials and Nanotechnology - ICANN 2023 sponsored by Ministry of Electronics and Information Technology (MeitY), Govt. of India at the Centre for Nanotechnology, Indian Institute of Technology Guwahati. The final pitching round was conducted on 30th November 2023.

Guest Lectures / Training Programs conducted by faculty

Dr. Nisarg Gandhewar has delivered expert lecture on ‘Regularization Concepts in Deep Learning’ at S B Jain College of Engineering Nagpur on 10th October 2023. The lecture was organized for final year students. He has also delivered guest lecture on ‘MongoDB with Hands on Training’ at D. Y. Patil College of Engineering, Akurdi, Pune on 22nd October 2023. The lecture was organized for third year students.

Dr. Chithraja Rajan has delivered expert talk on ‘AI/ML Trends Reshaping the World in 2024’ to the faculties at J.D. College of Engineering and Management Nagpur on 23rd November 2023. Prof. Durgesh Sharma has delivered expert talk on ‘Data Driven Technologies & It's Applications’ at JD College of Engineering and Management, Nagpur on 4th December 2023.

Dr. Chithraja Rajan and Dr. Bhumika Neole conducted one month “IoT Hands-on” training in CIIIT for St. Vincent Pallotti College of Engineering and Management, students from 14, August, 2023 to 9, Sept, 2023. Students understood IoT concepts and had rigorous practise on IoT Trainer Kit available in centre. Finally, respected HoD CSE (AIML), Dr. Suresh Balpande and HOD ECE, Dr. Dipak Dahigaonkar distributed certificates to participants on 14 October 2023.



Dr. Suresh Balpande, Dr. Chithraja Rajan, and participants of training program

Publications

Dr. Chithraja Rajan has published a research paper titled 'A paradigm shift in analog applications through reconfigurable FET' in Micro-electronics Journal, Vol. 142, pp: 106004 in November 2023 (SCI). Dr. Chithraja Rajan has also published a research paper titled 'A highly sensitive MOSFET gas sensor based on charge plasma and catalytic metal gate' in International Journal of Numerical Modelling: Electronic Networks, Devices and Fields in November 2023 (SCI).

Dr. Chithraja Rajan has also published a research paper titled 'A Novel Trench Cavity-Based CP-TFET for Label-Free Biomolecule Detection' in proceedings 2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT), on 23 November 2023 IEEE Xplore (Scopus). Prof. Pranali Dandekar has published a research paper titled 'Document Segmentation using Transfer learning: A Resnet Approach' in the international conference on Intelligence technology for sustainable energy management and control organized by YCCE, Nagpur on 23rd to 25th November 2023. (Scopus)

Dr. Nisarg Gandhewar has published a research paper titled 'IoT Enabled Mushroom Farm Automation based on CNN-BiGRU-CRF Method' in 7th International Conference on Electronics, Communication and Aerospace Technology organized on RVS Technical campus, Coimbatore held on 22nd to 24th November 2023. (Scopus)

Dr. Amit Pimpalkar has published a research paper titled 'A Novel Paradigm for Sentiment Analysis on COVID-19 Tweets with Transfer Learning Based Fine-Tuned BERT' in the journal of Advances in Technology Innovation, ISSN No. 2518-2994, Vol. 8, No.4 (28-09-2023). (Scopus). He has also 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 in December 2023. (ISBN:9798369314357, EISBN13: 9798369314364).

Prof. Neha Lanke has published a research paper titled 'Modern Trends in Deep Learning for Fruit Quality analysis of Hyperspectral Images' in the proceedings of 14th International Conference on Advances in computing, control, and Telecommunication Technologies, ACT 2023 published by Grenze Scientific Society in October 2023. (Scopus).

Dr. Amit Pimpalkar has presented a 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 (AIKIIIE) 2023 organised by Rao Bahadur Y. Mahabaleswarappa Engineering College, Ballari on 2nd and 3rd November 2023. (Scopus). Prof. Deepa Das has published a book chapter titled 'Impact of AI on Advancing women safety' published by IGI Global on 6th September 2023. (ISBN- 9798369326794).

Patents

Patent application No. 202321080495 titled "A Kitchen Safety and Monitoring System" filed by RCOEM and Dr. Yogesh Thakare has been published on 29th December 2023. Patent application No. 202321086085 titled "A Detachable Wiper Cleaner" and Patent application No. 202321086086 Titled "A Near Field Communication System for Student Disturbance Prevention" has been filed by RCOEM and Prof. Priya Parkhi on 18th December 2023. Patent application No. 202321016484 Titled "A Car Windshield and Life Protector" has been filed by RCOEM, Prof. Priya Parkhi has been published on 22 December 2023.

Patent application CBR No: 51992 titled “A Laptop Stabilizing Stand”, Patent Application No. 402850-001 titled “Modified Table”, and Patent Application No. 402857-001 titled “Electronic Component Cutter” has been filed by RCOEM, and Dr. Yogesh Thakare in December 2023. Patent application No. 402079-001 titled “Goggle” has been filed by RCOEM, Dr. Suresh Balpande, and Dr. Yogesh Thakare on 13th December 2023.

Patent Application titled “Dual Function Battery Holding and Charging Station” has been filed by RCOEM, Dr. Suresh Balpande, and Prof. Ashwini Mate on 22nd November 2023. Patent Application titled “Workstation Essentials : A Multifunctional Desk Organizer” has been filed by RCOEM, Dr. Suresh Balpande, Prof. Deepa Das, and Prof. Kiran Khandare on 27th December 2023.

STTP/FDP/Other Training Attended by Faculty

Dr. Suresh Balpande, Prof. Snehal Awachat, Prof. Ashwini Mate, Prof Shashi Rathore, Prof. Pravin Pardhi, Prof. Snehal Awachat, and Prof. Deepa Das have attended one week workshop on ‘Integrating Excel and Python for Advanced Technical Analysis of Stock Market Data’ organized by IIT Nagpur on 16th to 20th October 2023. Prof. Shashi Rathore and Prof. Kiran Khandare have attended STTP on ‘Art of computer programming with application to image processing’ organized by NIT Warangal. Prof. Kiran Khandare has also attended a training program on ‘IOT and its applications’ organized by NITTTR, Chandigarh from 6th to 10th November 2023. Prof. Shashi Rathore has attended 3rd International Research Workshop on Advances in Deep Learning and Applications (WADLA-2023) organized by IIIT Sri City, Chittoor conducted from 6th to 10th December 2023.

Dr. Nisarg Gandhewar has attended one week FDP on Building Advanced data Analytics Applications with cloud organized by Edunet Foundation from 30th October to 3rd November 2023. He also attended ATAL FDP on ‘Role of machine learning in societal development’ organized by Priyadarshani college of Engineering Nagpur’ held from 4th December to 9th December 2023. ‘IISC Regional Meet’ held at GHRCE Nagpur on 13th December 2023 was also attended by Dr. Nisarg Gandhewar. Dr. Chithraja Rajan has presented a research paper “Ultra Energy Efficient Reliable and Robust DLJLFET Based-PUF for IOT Devices ” in 3rd International Conference on Machine Learning & Augmented Intelligence (MAI-2023) organized by NIT Patna from 24th November 2023 to 25th November 2023.

Dr. Chithraja Rajan has also presented research paper “ A Low-cost Air Quality Monitoring IoT System Using Node MCU: A Novel Approach” in an International conference on ‘IFIP WG8.6 Working’ organized by IIM Nagpur conducted on 15th December and 16th December 2023. Dr. Chithraja Rajan also presented research paper “ Power Efficient Hardware Fingerprint: Exploiting Process-Variations in A Quasi-Planar 14nm FinFET” in ‘19TH ASIA PACIFIC CONFERENCE ON CIRCUITS AND SYSTEMS (APCCAS 2023)’ organized by IEEE CAS Hyderabad Chapter conducted on 19th November to 22nd November 2023.

Dr. Chithraja Rajan, Dr. Yogesh Thakare Prof. Neha Lanke, Prof. Shashi Rathore and Prof. Ashwini Mate have attended a FDP on “Recent Trends in 5G/6G Wireless Technology and Application” from 25/09/2023 to 29/09/2023 organized by Centre of Training and Learning, NIT Warangal in association with the Department of Electronics and Communication Engineering of Shri Ramdeobaba College of Engineering and Management, Nagpur.

Dr. Amit Pimpalkar, Prof. Kiran Khandare, and Prof. Ashwini Mate have attended a ATAL FDP on 'Recent Trends in Artificial Intelligence & Machine learning' from 09 to 14 October 2023 organized by Priyadarshini College of Engineering, Nagpur. Dr. Yogesh Thakare has attended '3rd International Conference on Innovative Mechanisms for Industry Applications', ICIMIA organized by Dayananda Sagar College of Engineering, Bengaluru, India conducted from 21st to 23rd December 2023.

Prof. Priya Parkhi has attended '8th International Conference on Information and communication Technology for Competitative Startegies (ICTCS) organized by Global Knowledge research foundation & GR Scholastic' which is held on 8th and 9th December 2023. She has also attended 12 Week FDP and completed certification program on 'Cloud Computing' organized by NPTEL-IIT Kharagpur conducted from July 2023 to October 2023.

Prof. Pranali Dandekar has attended one week FDP and completed certification course on 'NPTEL-Python for Data Science' organized by IIT Delhi which is conducted from July 2023 to October 2023. She has also attended one week FDP on 'High Performance Computing' organized by Symbiosis College, Nagpur conducted from 11th to 16th December 2023. Prof. Neha Lanke has completed NPTEL Certification course on 'Python for Data Science', 'Patent Drafting for Beineers', 'Machine Learning-Deep Learning Fundamentals and Applications', 'Introduction to Machine Learning' and, 'Introduction to Research Methodology' conducted by NPTEL in July 2023 to December 2023 cycle.

Prof. Snehal Awachat has attended '3rd International Conference on Computational Electronics for Wireless Communications (ICCWC-2023)' organized by Dr B R Ambedkar National Institute of Technology (NIT) Jalandhar which is held on 22nd and 23rd December 2023. Prof. Durgesh Sharma has attended international workshop on 'Fairness and Trust in the Mathematical Modeling and Machine Learning' organized by VIT Bhopal from 9th October 2023 to 13th October 2023. He has also attended international workshop on 'Web of Science Certification Program 2023' organized by Clarivate on 5th December 2023. Prof. Deepa Das has attended '8th International conference on advanced Nanomaterial and Nanotechnology - ICANN 2023' organized by IIT Guwahati on 29th November to 1st December. She has attended '15th Soft Computing and Pattern Recognition international conference' organized by Machine Intelligence Research Labs conducted on 13th and 14th December 2023.

Departmental Activities

Departmental Installation

On October 27, 2023, an Installation Ceremony for the Departmental Student Forum of AI & ML took place, and it was attended by all students and faculty members. The Head of the Department delivered a captivating, insightful, and lively speech to the students. Guest speaker delivered insightful talk on "Linkedin Profile and resume building." Guest speaker Sankalp Kotewar delivered expert talk on "Time management, importance of skills and personality development". During the event, the committee's name was unveiled, and the logo was revealed. Following the ceremony, a technical session was arranged specifically for second-year students, featuring speakers who provided guidance on various IT trends and technologies. The primary objective of this session was to equip participants with vital skills and knowledge in these domains. Furthermore, the committee arranged a delightful event called "Pair-O-Mania" for the students. During this event, students were teamed up and given a variety of tasks to accomplish. In addition to this, the students also celebrated a Traditional Attire Day.



Glimpses of Installation Ceremony (Photo2 and Photo3)

Informative Session on Hackathons & Open Source Programs

AIML Departmental Forum, RCOEM committee organized an informative and engaging session on Hackathons & Open Source Programs, on 13th October, 2023 focusing on key topics: Hackathons, Open Source Programs & Various popular platforms hosting above. The event aimed to equip participants with essential information and knowledge in these areas. The Session was organized in offline mode. The event kicked off with a warm welcome from the AI & ML Departmental Forum, followed by an introduction to the event's agenda. Participants were excited to delve into the world of Hackathons and enhance their understanding of how to apply for various hackathons and the do's and don'ts. The event first centered around the introduction of MOOC and Open Elective Courses and Incentives. Speakers shared insights on Hackathons like SIH, MLH and also on Open Source Programs like GSOC, Hactoberfest, MLH Fellowship & Girlscript Summer of Code, HackSquad. Throughout the event, participants engaged in interactive Questions & Answers sessions. The AI & ML Departmental Forum provided guidance and support, ensuring a productive and immersive learning experience.

Workshop Organized in the Department

Department of Computer Science and Engineering (AIML) of Shri Ramdeobaba College of Engineering & Management, Nagpur has conducted One week workshop on “Exploring Tools and Techniques for Research Methodology” dated from 06th- 10th Nov 2023. The scope of the workshop was to cover theoretical and “hands-on” practical session on the following aspects of research methodology. The following schedule was followed for this workshop.

Date	Session	Topic	Speaker
06/11/2023	S1	Patent drafting practices	Dr. Suresh Balpande, CSE (AIML)
	S2	Demo of On-shape CAD tool	Dr. Alok Jha , Mechanical Engg
07/11/2023	S1	Understanding and drafting Research Articles	Dr. Amit Pimpalkar , CSE (AIML)
	S2	Journal Selection, Citation tools, & Rephrasing tool	Dr. Suresh Balpande, CSE (AIML)
	S3	Demonstration of Graph Plotting tool	Dr. Chithraja Rajan, CSE (AIML)

08/11/2023	S1	Artificial Intelligence without Coding	DR. Nisarg Gandhewar , CSE (AIML)
	S2	Hands-on session on LATEX tool	DR. Abhishek Sahu , CSE (AIML)
09/11/2023	S1	Research Profile Building	Dr. Urmila Shrawankar , CSE (Data Science)
	S2	Mendeley Citation tool	Dr. Supriya Gupta ,CSE (Data Science)
10/11/2023	S1	Graphical Abstract and AI based Graph plotting tool	Dr. Yogesh Thakre, CSE (AIML)

The session also covered discussions on the role of ICTs in facilitating scholarly communication, exploring the meanings based on qualitative methods, ICT and its atomistic use as a component of the rich and diverse academic life of scholars, quality research, plagiarism check tools, indexing and references, etc. The workshop ended with great feedback from all the 23 participants present.



Participants of the workshop attending FDP (Photo 4 and Photo 5)

Parents Meet

The Parent's Meet for the IIIrd and Vth Semester, Session 2023-24 was conducted on 28/10/2023. Parents interacted with Dr. S. S. Balpande HOD, CSE-AIML and Faculty members. They discussed results, placement activities, internships, and prominent achievements of CSE students.



Parents Interacting with the faculties during meeting (Photo6 and Photo7)

Guest Lectures organized in Department

The following guest lectures are organized in the department.

Guest Lecture was organized for Vth Semester students. Dr. Ramanand Samdekar, Sr. Software Engineer, Tavant Technologies Hyderabad delivered lecture on “Latest Trends & Job Opportunities in Salesforce CRM”. The lecture was conducted on 7th October 2023.

An expert lecture on the topic “Busting Myths of cracking interview rounds with HR” was organized for Vth Semester student on 18th November 2023. The lecture was delivered by Ms Shivali Chandel, Project Manager, Gocomet, Singapore.

An expert lecture was organized for Vth Semester students on topic “Trailblazing Through Salesforce: A Journey into Trailhead Exploration” . The lecture was delivered by Mr Akash Jogani, Salesforce Developer, CommerceHub, US on 28th November 2023.

Guest lecture was organized for IIIrd semester students on topic “Exploration of Linked List: An Industry Perspectives” on 27th November 2023. The lecture was delivered by Mr. Laxman Hedao, Expert Software Engineer, TomTom Pvt Ltd. Pune.

An expert lecture on topic ” Exploring python language tools and industrial python language trends.” was organized in the department on 4th and 5th December 2023. The lecture was delivered by Mr Sourav Agarwal, Senior Analyst in Data Science, Tiger Analytics, Bangalore.

Guest lecture for Vth and VIIth semester students was delivered by Dr. Shital Sukhdeve, Senior Data Scientist, PT Smartfren Telecom Tbk, Indonesia on the topic “Demystifying Enterprise Data Science and AI”. The lecture was conducted on 27th December 2023.

An expert lecture was organized for Vth Semester students on 29th December 2023. The Expert talk was delivered by Mr Sanjay Bonde, Engineering Lead, Walmart, California USA, on the topic "Generative AI & Industry Use Cases".

Students' Corner

Student's Placements

Department of CSE-AIML has excellent placement record for 2024 Batch. Out of 69 students, 39 students placed in different multinational companies with decent annual packages till date. Total 21 companies visited in the campus.

Sports Achievements

Atharva Aloni of IIIrd semester and his team has secured second position in intercollegiate chess tournament held at Dhanwate National College, Nagpur from 5/10/2023 to 8/10/2023. They also won a prize money of Rs. 3000/-.

Ninad kadu of VIIth semester and his team has secured third position in intercollegiate basketball tournament held at Dhanwate National College, Nagpur from 5/10/2023 to 8/10/2023. They also won a prize money of Rs. 2000/-.

Tamanna Gulhane of IIIrd semester and her team has secured third position and won prize money of 2000 Rs/- in intercollegiate badminton tournament held at Dhanwate National College, Nagpur from 5/10/2023 to 8/10/2023.

Anish Patankar of IIIrd semester and his team has secured fourth rank in intercollegiate badminton tournament held at Dhanwate National College, Nagpur from 5/10/2023 to 8/10/2023.

Ashutosh Tripathi, Aarsh Hadap, Atharva Aloni, and Nikunj Gindodiya Shubham Muskare won chess competition and secured third position in RCOEM branch cup. Vanshi Mittal, Mayuri Lakhota and Rishiks Batra secured third position in Chess competition in branch cup.

Department of Computer Science & Engineering (Data Science)

Faculty Corner

Guest Lectures taken by faculty :

1. Dr. Supriya Gupta, Expert Speaker at NPTEL CSVTU technical university on 26 July23
2. Prof. Vaishali Katkar (Sahare) Expert speaker at Kratin Software Solutions Pvt. Ltd. on “Spring Framework Architecture for Web Application Development” on 28th Oct 23.

Publications :

S.No.	Name of Author	Name of Other Authors	Title of Paper	SCI/ Scopus /GS	International Journal Name	Year of Publication [DD/MM/YYYY]
1	Samir N. Ajani		Advancements in Computing: Emerging Trends in Computational Science with Next-Generation Computing	Scopus	International Journal of Intelligent Systems and Applications in Engineering	Dec. 2023
			A mechanism to ensure identity-based anonymity and authentication for IoT infrastructure using cryptography	Scops & ESCI	Journal of Discrete Mathematical Sciences and Cryptography	Sep. 2023
			Occupational Stress and Mental Health : A Longitudinal Study in High-Stress Professions.	Scopus	South Eastern European Journal of Public Health	Dec. 2023
			Examining the Social Determinants of Health in Urban Communities: A Comparative Analysis	Scopus	South Eastern European Journal of Public Health	Dec. 2023

S. No.	Name of Author	Names of Other Authors	Title of Paper	International Conference Name	Title of Proceeding Conference	Organizing Institute and its City & Country	Year of Publication [DD/MM/YYYY]	Dates of Conference	Venue	Conference Proceeding/ Indexing [SCI/GS]
3	Samir Ajani		Accelerating Neural Network Model Deployment with Transfer Learning Techniques using Cloud-Edge-Smart IoT Architecture	ICACI2 023 (International Conference on Advances in Computational Intelligence)		MVSR, Hybradad		15-16 Dec 2023	Virtual mode	Scopus

STTP/FDP/other Training Attended by Faculty

1. Prof. V.Katkar attended a FDP Training 11th Dec-15th Dec, 2023 organized by Symbiosis Institute of Technology Pune & Nagpur sponsored by NVIDIA on "High Performance Computing"
2. 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 6th Sept-10th Nov, 2023 organized by Dept AIML, RCOEM on "Exploring tools and techniques for research methodology"
3. Prof.Shruti Nair attended a workshop from 6th Oct-20th Oct, 2023 organized by IIIT Nagpur

Departmental Activities :

- a) Consultancy or any other projects undertaken :

Consultancy for Project work on "Medical Device Integration with Laboratory Information System" is Granted by MicroPro Software Solutions Pvt. Ltd.

Amount Sanctioned : 2,00,000/-



b) Guest Lectures organized in the Department :

1. Guest Lecture on “ Generative Ai and Its Use-cases” by Mr. Sanjay Bonde, Engineering Lead at Walmart, Global Technology Platform at Silicon Valley, San Fansisco, Californiya, USA organized for CSE, IT, MCA, DS, AI/ML, Cyber department Students and faculties by Data Science Department on 29th Dec 23.



Fig 1 : Glimpses of Guest Lecture

2. On 18-19 Dec 2023 the Department of Data Science had the privilege of hosting a guest lecture by Mr. Nikhil Lanjewar proved to be an enriching experience, providing faculty members with valuable insights into effective interaction strategies and the judicious use of free tools and technologies for student assessment. The practical approach and real-world examples shared by the speaker added significant value to the overall learning experience, leaving the audience inspired to implement these strategies in their own teaching practices.

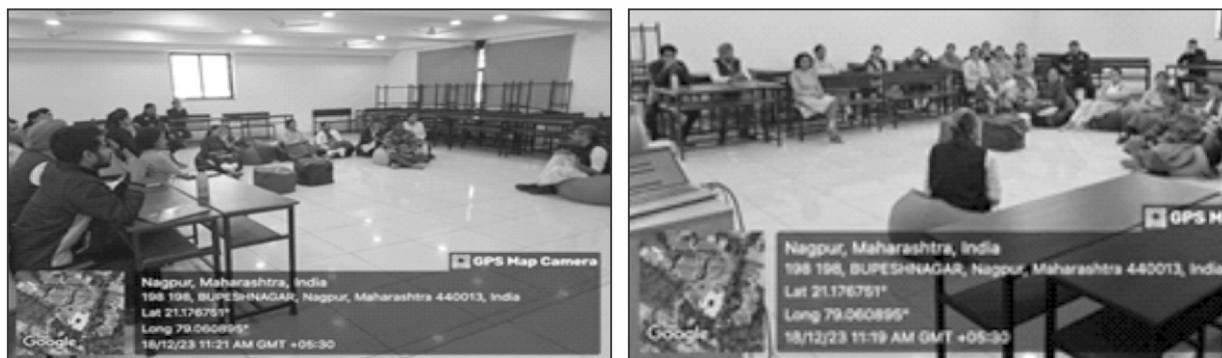
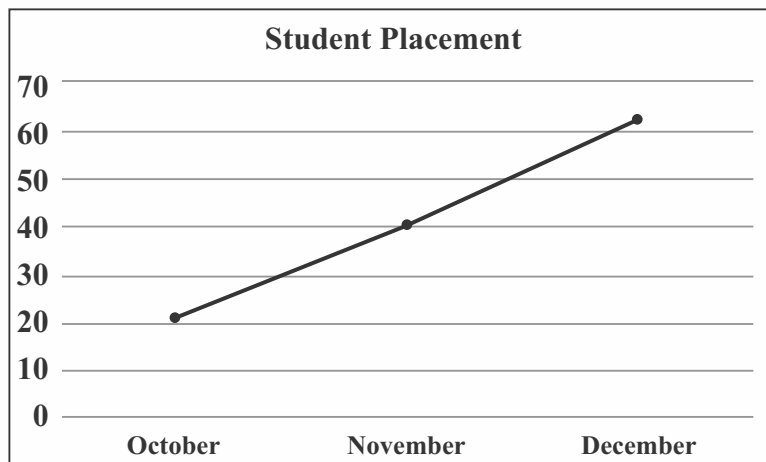


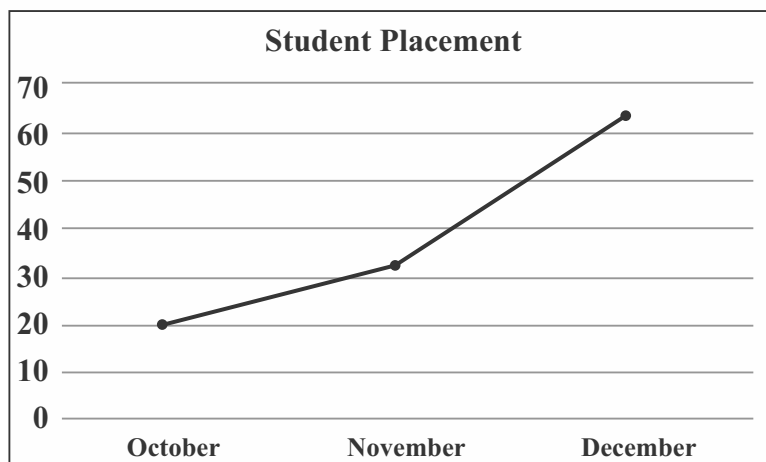
Fig 2 : Glimpses of guest lecture

Placement and Internship from T&P

Placement : 62% (42 out of 68)



Internship : 62%



Department of Electrical Engineering

Faculty Corner

Publications

1. Sonali Rangari, Chandradeo Rana and Sanket Shelki, presented a paper titled, “Power Management Control Technique of Fuel Cell Operated Multiport bidirectional dc/dc converters” in 7th International IEEE conference IEEE Computer Application in Electrical Engineering Recent Advances (CERA 2023), IIT Roorki , India, 27-29 Oct 2024.
2. Sonali Rangari, Sanket Shelki and Chandradeo Rana, presented a paper titled, “Review on Topologies of Non-Isolated and Isolated Bidirectional DC-DC Converters” in Intelligent Technologies for Sustainable Energy Management and Control ITSEMC-2023 organised by Yashwantarao Chauhan College of Engineering, Nagpur, 23-25 Nov 2023.

STTP/FDP/other Training Attended by Faculty

1. Prof.M.B.Gaikwad successfully completed 12 weeks NPTEL FDP Programme on “Design of Electric Motors” organized by IISC Bangalore during July-October 2023.
2. Dr.P.V. Kapoor successfully completed 8 weeks NPTEL FDP Programme on , “Developing Soft Skills and Personality” organized by IIT Madras July-Sept 2023.
3. Dr.P.A. Salodkar successfully completed 8 weeks NPTEL FDP Programme on , “Developing Soft Skills and Personality” organized by IIT Madras July-Sept 2023.

Departmental Activities

Alumni Meet and Guest Lectures organized in Department.

Report of Alumni Meet :

Alumni Association of Shri Ramdeobaba College of Engineering & Management, RCOEM celebrated the Annual Alumni day and Silver Jubilee of 1998 batch the – “Conclave 2023” on 24th December 2023. Sixteen alumni of 1998 electrical batch registered for the event and visited to the Department. During the interaction in the Department, alumni shared their journey after completing the graduation and experiences over the period. The alumni showed interest to guide and mentor the students of the department through online lectures/talk. Dr.S.B.Bodkhe felicitated the students by offering mementos.



Glimpse of Alumni meet in the Department

Guest Lecture on Communications Skills

Guest lecture on "Communication Skills" was organized on 7th October 2023 for V Semester students to improve their Verbal and Non-verbal communication skills. Mr. Nirman Shringhey was the resource faculty for the program. Speaker discussed the topics such as "Do's and Don'ts in interview" and "Preparation for written examinations during the campus placement". Students liked the interactive session and found it very useful for the future campus placements. Total 54 students of attended the lecture. The Dr.Gaurav Goyal was the faculty coordinator of the program.

Students' Corner

Toppers List

VII Semester Session 2023-24

Sr. No.	Student Name	SGPA	CGPA
1	Vallabh Pravin Acharya	9.75	9.76
2	Atharva Sandip Joshi	10.0	9.56
3	Ujwal Shrikant Masane	10.0	9.19
4	Ayush Chandrakant Virutkar	9.19	9.05
5	Achintya Patil	8.38	8.96

Placements

Following students got placement through the campus placement drive :

S.No.	Name of Student	Name of Company	Package
1	Shreya Dilip Dudure	Hitachi Energy Ltd	6.5 LPA
2	Vedanti Ajay Kapse	Hitachi Energy Ltd	6.5 LPA
3	Qasim Saifuddin Najafee	Hitachi Energy Ltd	6.5 LPA
4	Abhijeet Arun Bochkari	Hitachi Energy Ltd	6.5 LPA
5	Ayush Chandrakant Virutkar	Shapoorji Pallonji & Company Private Limited	4 LPA
6	Mayank Jitesh Mundhada	Shapoorji Pallonji & Company Private Limited	4 LPA
7	Sushant Balkrushna There	Shapoorji Pallonji & Company Private Limited	4 LPA
8	Prajwal Dilip Singade	Cloud 4C Services	4 LPA
9	Ayushi Shashikant Jaiswal	Acmegrade Pvt Ltd	4 LPA
10	Khushi Lakhan Jagwani	Acmegrade Pvt Ltd	4 LPA
11	Achintya Patil	Acmegrade Pvt Ltd	4 LPA
12	Deep Rajeew Verma	Acmegrade Pvt Ltd	4 LPA
13	Sakshi Ravindra Tekdiwal	Acmegrade Pvt Ltd	4 LPA
14	Samvedana Pathak	Acmegrade Pvt Ltd	4 LPA
15	Taniya Sanjay Jaiswal	Acmegrade Pvt Ltd	4 LPA

Student Achievements

Mr. Amrit Raj Singh, student of second year won the FIRST Position in “CHOREO”, a Dance competition organised on 2nd and 3rd Dec 2023 by Milestone Committee, Institute of Management Technology, Nagpur.

Writer's Corner :

For Faculty :

1. Prof. (Ms.) M. B. Gaikwad delivered a guest lecture on "Electric Vehicles Charging System" on 8th October 2023 at the VIDYUT EXPO- 2023, organized by The Electrical Contractors' Association, Nagpur & the Federation of Electrical Contractors' Associations of Maharashtra at Vasantrya Deshpande Hall, Nagpur.



Glimpse of Guest lecture delivered

Department of Electronics and Computer Science

Faculty Corner

Guest Lectures taken by faculty

Lokesh M. Heda delivered a expert talk on Internet of Things (IoT) on 14 Dec 2023 for Students of Bhavan's B.P Vidya Mandir (Civil lines Branch) in talk organized by RCOEM-TATA-CIIIT, RCOEM Campus, Nagpur

Publications

1. Dr. Bhalchandra M Hardas, Dongare Yashwant Srinivasan Rashmita Meshram Vidula Aush Mithun G. Kulkarni Atul have published a paper titled Deep Neural Networks for Automated Image Captioning to Improve Accessibility for Visually Impaired Users in International Journal of Intelligent Systems and Applications in Engineering with E-ISSN:2147-6799 Volume 12, Issue 2s, Pages 267 - 2812024 (Scopus)
2. Dr. Bhalchandra M Hardas, Kaushik Shivkant Goyal Ankur Dongare Yashwant Aush Mithun G. Chiwhane Shwetambari have published a paper titled Deep Learning with Multi-Headed Attention for Forecasting Residential Energy Consumption in International Journal of Intelligent Systems and Applications in Engineering with E-ISSN:2147-6799 Volume 12, Issue 2s, Pages 109 – 1192024 (Scopus)
3. Dinesh Bhoyar, Pravin Zode, R Bhagat Patil, R. H. Khobragade have published a paper titled Creating an advanced Face Detection and Recognition algorithm for Enhanced Information security in International journal of Intelligent System and Application in Engineering with E ISSN:2147 – 6799 Volume 12 No.7s Pages 584-588(Scopus)
4. Dr. Nitin Narkhede, C P Pandhurnekar, Dinesh R Rotake and Shiv Govind Singh, Jitendra B Zalke have published a paper titled Non-enzymatic glucose detection with Screen-Printed Chemiresistive sensor using green synthesised silver nanoparticle and multi-walled carbon nanotubes-zinc oxide nanofibers in Journal of Nanotechnology with ISSN: 1361-6528 Volume 35, Number 6, DOI 10.1088/136 (SCIE)
5. Dr. Nitin Narkhede, Shubhankar Roy, Deepa B. Bailmare, Pooja A. Zingare have published a paper titled Green and sustainable fallen night jasmine-derived carbon for enhancing the efficiency of supercapacitors in Journal of Diamond & Related Materials with ISSN 0925-9635 Volume 141, January 2024, 110727(MSCI)
6. Poorvi K Joshi, Swapna Choudhary, Nitin Dhote, Ashwini A. Deshpande, Ansh Sambhariya have published a paper titled IoT Based Smart Glasses with Facial Recognition for People with Visual Impairments in SSRG International Journal of Electronics and Communication Engineering with ISSN 2348-8379 Volume 10 Issue 9, 154-159(Scopus)
7. Vikas Gupta, Minal Keote, Rashmi Keote, Bharati Masram, Pradeep Karule have published a paper titled Design and Development of Handwritten Digit Recognition System Using Machine Learning in International Journal on Recent and Innovation Trends in Computing and Communication with E-ISSN 2321-8169 Vol. 11 No. 9 (2023)(Scopus)
8. Dr. Richa R Khandelwal, Devashree Sakharkar, Anubhav Jain, Arpita Parakh have published a paper titled Smartphone-Based Identification of Different Tissue Cells in IEEE SENSOR letters with ISSN 24751472 volume 7, issue 10(ESCI)

STTP/FDP/other Training Attended by Faculty

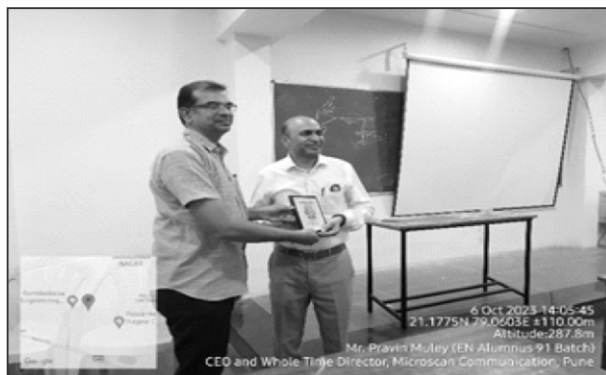
1. Prof. Vishal Rathee have attended 12 weeks online Faculty Development Program on The Joy of Computing Using Python during July 2023 to Oct 2023 organized by NPTEL-AICTE Faculty Development Programme
2. Dr.Deepali M. Kotambkar have attended 12 weeks online Faculty Development Program on Medical Image Analysis during July 2023 to Oct 2023 organized by NPTEL-AICTE Faculty Development Programme
3. Dr. Pankaj Joshi have attended 12 weeks online Faculty Development Program on C Based VLSI Design during July 2023 to Oct 2023 organized by NPTEL-AICTE Faculty Development Programme
4. Dr Nitin Narkhede have attended 12 weeks online Faculty Development Program on C Based VLSI Design during July 2023 to Oct 2023 organized by NPTEL-AICTE Faculty Development Programme
5. Dr. Rohini S. Ochawar have attended 12 weeks online Faculty Development Program on Accreditation And Outcome Based Learning July 2023 to Oct 2023 organized by NPTEL-AICTE Faculty Development Programme
6. Prof.Shubham Anjankar have attended one week Faculty Development Program on Integrating Excel and Python for Advanced Technical Analysis of Stock Market Data during 16-20 Oct 2023 organized by Computer Science and Engineering Indian Institute of Information Technology, Nagpur
7. Dr.Kanchan Dhote have attended one-week online Faculty Development Program on Professional Values and Ethics during 4-10 Dec 2023 organized by NITTTR,Kolkata
8. Prof.Poorvi K Joshi have attended a 2 week online Faculty Development Program on AI/ML AND DATA SCIENCE FOR HEALTH CARE during 11-22 Dec 2023 organized by Department of Electronic and Telecommunication,Information Technology And Electrical Engineering of Atharva College Of Engineering, Malad (W),Mumbai
9. Prof.Deepali M.Kotambkar have attended a 2 week online Faculty Development Program on AI/ML AND DATA SCIENCE FOR HEALTH CARE during 11-22 Dec 2023 organized by Department of Electronic and Telecommunication,Information Technology And Electrical Engineering of Atharva College Of Engineering, Malad (W),Mumbai
10. Prof.Gouri Morankar have attended a 2 week online Faculty Development Program on AI/ML AND DATA SCIENCE FOR HEALTH CARE during 11-22 Dec 2023 organized by Department of Electronic and Telecommunication,Information Technology And Electrical Engineering of Atharva College Of Engineering, Malad (W),Mumbai

Departmental Activities

Parents Meet, Alumni Meet and Departmental Installations or Events

Alumni Activities :

Interactive session of “Mr. Pravin Muley with Undergraduate Students” was held on 6th October 2023. Mr. Muley, who graduated from RCOEM in 1991 with a degree in Electronics Engineering, currently serves as CEO & Whole-Time Director of Microscan Communications, Pune. This interaction aimed to bridge the gap between academia and industry, providing students with valuable insights into the professional world and an opportunity to gain knowledge from an accomplished alumnus. 53 Students attended this session. [Photo: Prof. Pravin Dwaramwar welcomes Mr. Pravin Muley, Mr. Muley while delivering the lecture (R)]



On 24th of November 2023, Alumni cell of Electronics Engineering Department, RCOEM has organized an expert session on “Ultimate Guide to Salesforce Career Path”. The expert for the session was Mr. Akash Jogani (Alumnus EN-2019 Batch), Salesforce Developer at CommerceHub, Indiana, USA.

The field of Customer Relationship Management (CRM) has witnessed a paradigm shift with the emergence of Salesforce. In an expert talk, the “Ultimate Guide to Salesforce Career Path” was explored, shedding light on the key aspects and strategies to navigate a successful career in this dynamic and high-demand domain.



Prof. Lokesh Heda welcomes Mr. Akash Jogani (L), Mr. Akash while delivering a talk (R)]

The talk serves as a source of inspiration for students and professionals alike, navigating their own paths in the dynamic world of Salesforce development. 60 students attended this session.

Conference, STTP and Guest Lectures organized in Department

1. Prof. P. P. Rane Prof. S. V. Laddha organized a Guest lecture on Cloud Computing for students of the department on 19 Nov 2023. Ms. Priya M., Global Logic India Pvt Ltd was the resource person.
2. Prof. Lokesh M. Heda organized a Guest lecture on Ultimate Guide to Salesforce Career Path for students of the department on 24 Nov 2023 Mr. Akash Jogani (Alumnus EN-2019 Batch), Salesforce Developer at CommerceHub, Indiana, USA was the resource person.
3. Prof. S. V. Laddha, Prof. P. P. Rane organized a Guest lecture on Be Industry Ready for students of the department on 2 Dec 2023. Aishwarya Vyas, Software Engineer, Principal Global Services, Pune was the resource person.

Students' Corner

Placement statistics of 2023-24 Pass out

Company / Sector	Number of students placed
IT and allied sector	40
Total	40

Department of Electronics and Communication Engineering

Faculty Corner

Awards received by Faculty of department

Dr. Ankita H. Harkare received IEEE- Innovation Award for her contribution towards sustainable innovation in the field of antennas on 13th December 2023.

Publications

1. Dr. R.B. Raut and Dr. Bhumika Neole received Patent Grant for Patent no. 201921021270 "Detection and Prevention of LPG gas leakage Device using Solenoid Valve in Household Application"
2. Dr. P. K. Parlewar and Prof. N. M. Borkar received Design Patent Grant for Design no. 385931-001 for "BLUETOOTH AND UWB PLANAR ANTENNA" on 24th Nov 2023.
3. Dr. D.J. Dahigaonkar has published a paper titled "A Low-Cost Air Quality Monitoring IoT System Using Node MCU: A Novel Approach" in IFIP Advances in Information and Communication Technology, vol 698. Springer, Cham. https://doi.org/10.1007/978-3-031-50192-0_15
4. Dr. Prasanna P. Deshpande has published a paper titled "Evolutionary Strategies for Parameter Optimization in Deep Learning Models" in International Journal of Intelligent Systems and Applications in Engineering with ISSN 2147-6799 Volume 12(2s), pp 371–378, (Scopus)
5. Prof. Nishant M. Borkar, Ayush Atal, Ayush Chile, Keshav Shukla has presented a paper on "Crop Monitoring System Using GSM" and published in Proceedings of the International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS 2023) organized by "M. P. Nachimuthu M. Jaganathan Engineering College Sudhanandhen Kalvi Nagar, Chennimalai, Erode, Tamilnadu, India 638112" on 18-20 Oct 2023, and also published in IEEE Xplore, indexed in Scopus.
6. Prof. Nishant M. Borkar, Manali Dhoot, Piyush Bisani, Sanskar Agrawal, Shubham Yadav has presented paper on "Estimation of Headcount in Crowd Using Convolutional Neural Network" in "International Conference On Ubiquitous Technology In Communication and Artificial Intelligence UTCA 2023" organized by Department of Electronics & Communication Engineering, Nagarjuna College of Engineering and Technology, Bengaluru, India. It was held on 20 – 21 October 2023. Publisher Indexed in Scopus.
7. Nishant M. Borkar, Anushka Alkari, Gagan Dayma, Kaustubh Kumbhare Lokesh Kumar Sao Filed a Design Patent on "Easy to use chalkboard eraser cleaning system" on 02nd Nov 2023.
8. Prof. Puja Agrawal, Ketan Dhakate, Krishna Parthani, Abhishek Agnihotri presented Paper titled 'Leveraging Convolutional Neural Networks for Robust Plant Disease Detection' in a Scopus 5th International Conference on Communication and Intelligent Systems (ICCIS-2023) held at Malviya national Institute of technology Jaipur Rajasthan on 16-17/12/2023.
9. Prof. Puja S. Agrawal and Dr. A. A. Khurshid was granted a patent 201621043435 titled 'DWT and GA-PSO Hybrid Optimization based Method for Imperceptible and Robust Audio Watermarking' on 22/12/2023.

10. Prasheel Thakre has published a paper titled Design and Implementation of a Dynamic Traffic Signal System with Digital Circuit and IoT Integration for Efficient Traffic Management in IEEE Explore with ISSN 2473-7674, pp. 1-7 (Scopus)
11. Dr. Ankita H. Harkare presented paper "Pet Care Management Online Platform "at Machine Vision and Augmented Intelligence conference organized by NIT, Patna in November 2023.
12. Dr. Ankita H. Harkare presented paper "Compact Circularly Polarized MIMO Dielectric Resonator Antenna for Complete X-Band Coverage "at IEEE-MAPCON conference held at Ahmadabad in December 2023.
13. Dr. Ankita H. Harkare received Design Patent Grant for Design no. 393228-001 for "Multiple-Input Multiple-Output Dielectric Resonator Antenna" on 30th October 2023.

STTP / FDP / Other Training Attended by Faculty

1. Dr. R. B. Raut attended 12 week NPTEL FDP on Patent Search for Engineers and Lawyers during July 23 – Oct 23.
2. Dr. R. B. Raut attended 8 week NPTEL FDP on Teaching And Learning In General Programs: TALG during July 23 – Oct 23.
3. Dr. M.S. Korde successfully completed 12 weeks NPTEL Course on "Introduction to Industry 4.0 and Industrial Internet of Things" organized by IIT Kharagpur during July-Oct 2023.
4. Prof. Nishant M. Borkar attended a FDP on "Building Advanced Analytics Applications with Cloud" during 20-24 Nov 2023, organized by AICTE-ATAL-EduNet Foundation.
5. Prof. Puja S. Agrawal attended 6 Days Online UHV II FDP on Universal Human Values organised by AICTE from 16/10/2023 to 21/10/2023.
6. Prof. Puja S. Agrawal attended an FDP titled Recent Trends in 5G/6G Wireless Technology and Application organized by Centre for Training and Learning, NIT Warangal from 25/09/2023 to 29/09/2023.
7. Dr. Ankita H. Harkare has completed 8 weeks Accreditation and Outcome Based Learning FDP Training from August 2023 to October 2023 organized by NPTEL.
8. Prof. Nishant M. Borkar participated in the Webinar on "Moving Matter in Computational Electromagnetism" by Prof. Halim Boutayeb, University of Quebec, Canada on October 3, 2023 organized by IEEE IISc MTT/AP-S Student Branch Chapter.

Parents Meet

Electronics and Communication Engineering Department organized Parent-Teacher Meeting (III and V Semester) for the session 2023-24 Odd Semester on 4th November 2023.



Other activities :

Electronics and Communication Premier League (ECPL)

Date :- October 8, 2023

Place :- Basket ball Ground, RCOEM, Nagpur

The highly anticipated Electronics and Communication Premier League (ECPL) made its grand return on October 8, 2023, at the resplendent RCOEM Basketball Ground in Nagpur. Organized once again by the ECE Department and Communique Student's Society, the ECPL was a testament to the dedication and teamwork of the organizers, guided by Prof. Prasheel Thakre, President Sania Sabu, and Secretary Harshal Nawlakhe.



A Grand Auction Event of ECPL :

As a prelude to the action-packed tournament, the auction held on October 5 and 6, 2023, was an event filled with anticipation and excitement. This year, we had eight fresh teams, each endowed with a unique identity and captained by enthusiastic leaders. The captains were entrusted with a substantial budget to acquire players based on their cricketing prowess, thereby assembling formidable squads. Notable highlights of the auction included the remarkable purchase of Aryan Deogade (3rd Year), the highest-paid male player and Anushka Alkari (4th Year), the highest-paid female player. Ayush Shah and Hritik Pandey were the auctioneers who oversaw the auction for ECPL 2023.



The event saw an impressive total of 120 participants, both male and female, who displayed remarkable energy and sportsmanship throughout the day. Each team engaged in two spirited matches against the others, leading to the selection of the top four teams for the semi-finals. These teams were: **Phantom Blues, Gladiators, Enforcers, Green Hawks, Whitecaps, Ascendants, Mustangs, Blazing Bluez**



ECPL Winner- Team phantom blues

Runner-up-Team ascendants

Man of the match - (Final) -Aditya Shahu Best bats-man (M) - Aditya Shahu, Best batsman (W) - Yashaswi Wahie, Best bowler (M) - Mayank Rai, Best bowler (W) - Dixita Hawelkar. Before the semi-finals, a well deserved break provided an opportunity for players to relax and recharge, fostering a sense of unity among the participants.

Annual Traditional Day 2023 (Electronics and Communication)

Date - November 4, 2023

Venue - Open Air Theatre, RCOEM, Nagpur

On November 4, 2023, we had a special Traditional Day celebration at our college's Open Air theatre. It was organised by the ECE department and the Communique Students' Body. This event was a great way for us to connect with people within our department and our teachers. Academic oriented sessions were organised for the students of 2nd -year and a placement oriented session for 3rd -year students for their future job plans by our seniors. Additionally, there were photo sessions with the esteemed faculty members of our ECE department.



Our department issued a notice detailing permissions and schedules for the Annual Traditional Day of 2023. The notice outlined important information and guidelines that were to be followed by everyone. The Communique student body played a major role in organising the Traditional Day event. They managed the schedule and obtained necessary permissions, contributing significantly to the event's successful execution. An interactive session between 2nd year and 4th year students was also held. This interaction was very crucial and vital for the 2nd years. The seniors offered - 1. Academic guidance 2. Brief introduction about the department 3. Stress management, 4.gave motivation to participate in extracurricular activities. 5. Viva preparation tips 6.last minute exam tips 7.Guidance about higher education opportunities. In addition to this, there was also some casual talk between 2nd and 4th years. This

interactive session played an important role in shaping the educational and personal growth of 2nd year students, setting them on a more confident path as they go through their college years. After the photo session, attention turned to the cricket women's match, wherein our team secured the runners-up position. The women's cricket match was against the EN department. Following that, the men's volleyball match turned out to be a big success. We ended up winning against the strong team from EN Branch. It was a great moment for us, and the victory added a special highlight to our day. The cheers echoed on the volleyball court, marking a memorable conclusion to a day that blended with the competitive spirit of sportsmanship. Last but not the least a quick note to mention that Dnyanesh Nighot, our talented photographer, played a major role in capturing the essence of our traditional day. With skill and enthusiasm, Dnyanesh documented every moment throughout the day, and made sure that the memories were captured, grateful for his dedication. As the sun was settling in towards dusk, ECE had coined it's new tradition by involving it's faculty as well as it's fellow students and provided them a new platform to voice their thoughts, interact with the office bearers and other students and creating the warmth that binds the department of ECE together.



Department of Information Technology

Faculty Corner

Guest Lectures taken by faculty

- Dr. Purshottam J. Assudani delivered a lecture on “Program Preview-IIT Guwahati Cloud + DevOps” on 18th December 2023 for Indian Institute of Technology (IIT) Guwahati.
- Dr. Purshottam J. Assudani delivered a lecture on “Career Masterclass: Is Cloud Computing the right career for you in 2024” on 2nd November 2023 for Caltech (California University), USA, (Ranked 2nd in the world).
- Dr. Purshottam J. Assudani delivered a lecture on “Learn to Deploy a MultiTimer Web App with Amazon SQS” on 26th October 2023 for Caltech (California University), USA.

Publications

- Dr. D. S. Adane presented a paper titled, “A Recommendation System for Food Tourism”, In Cyber Security and Applications: Proceedings of Eighth International Conference on Information and Communication Technology for Competitive Strategies, ICTCS-2023, Vol 3, 8-9 December, 2023. (To be published in Lecture Notes in Networks and Systems, Springer)
- Dr. D. S. Adane presented a paper titled, “Optimized Tour Planning system using Nearest Neighbour Algorithm”, In Cyber Security and Applications: Proceedings of Eighth International Conference on Information and Communication Technology for Competitive Strategies, ICTCS-2023, Vol 3, 8-9 December, 2023. (To be published in Lecture Notes in Networks and Systems, Springer)
- Dr. D. S. Adane presented a paper titled, “Improving Farm Yield through Agent Based Modeling”, In Cyber Security and Applications: Proceedings of Eighth International Conference on Information and Communication Technology for Competitive Strategies, ICTCS-2023, Vol 3, 8-9 December, 2023. (To be published in Lecture Notes in Networks and Systems, Springer)
- Dr. P. D. Adane presented a paper titled “ApnaMarket.NFT: Empowering Art and Collectibles in NFT Marketplace” in the 8th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2023), held from 8-9th December 2023.
- Dr. P. D. Adane presented a paper titled “City Ranking System: A comprehensive evaluation framework for urban development” in the 8th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2023), held from 8-9th December 2023.
- 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), held from 8-9th December 2023.
- Prof. C. B. Thaokar presented a paper titled “Body Posture Recognition And Fitness Training” in the 21st OITS International Conference on Information Technology, held from 13th - 15th December, 2023.
- Dr. R. K. Kadu presented a paper titled “Development of a Mobile App to Detect Counterfeit Currency using Machine Learning” in the 6th International Conference on Recent Trends in Advanced Computing (ICRTAC'23), held from 14th - 15th December 2023.

- Dr. A. V. Chandak presented a paper titled “Automatic Identification of Fish Species using Machine Learning” in the 21st OITS International Conference on Information Technology, held from 13th - 15th December 2023.
- Prof. R. H. Joshi presented a paper titled “Automated Exam Paper Checking Using Semantic Analysis” in the 21st OITS International Conference on Information Technology, held from 13th - 15th December 2023.
- Prof. S. V. Bondre and Prof. J. Nanwani presented a paper titled “Automated Road anomaly detector in VANET by using Deep Learning plague check” in the 21st OITS International Conference on Information Technology, held from 13th - 15th December 2023.

STTP/FDP/other Training Attended by Faculty

- Dr. P. D. Adane completed a NPTEL course on Cyber Security and Privacy in the month of October 2023.
- Dr. R. K. Kadu completed a One Week FDP on “Data Driven Technologies and its Applications” from 1st to 7th December 2023 conducted by J D College of Engineering and Management, Nagpur, Maharashtra.
- Prof. P. V. Kokardekar, Dr. P. J. Assudani and Prof. J. Nanwani completed a One Week STTP on Outcome Based Assessment from 9th to 13th October 2023 conducted by NITTTR, Bhopal.
- Dr. P. J. Assudani completed a NPTEL course on Outcome Based Education in the month of October 2023.
- Prof. Rohini Mahajan Completed three courses on Machine Learning from Coursera on 5th October 2023.
- Prof. S. Bondre and Prof. J. Nanwani completed a NPTEL course on Big Data Computing in the month of October 2023.
- Prof. Omesh Wadhwani has attended a one week FDP on “Data Driven Technologies and its Applications” from 1st to 7th December 2023 organized by J D College of Engineering and Technology.
- Prof. Omesh Wadhwani and Prof. Pallavi Meshram have attended a one week FDP “Linux Applications in Engineering Education” Training from 6th to 10th November 2023 organized by National Institute of Technology (NITTR) Chandigarh.
- Prof. Omesh Wadhwani has attended a one week FDP Training on 5G/6G Wireless Technologies from 25th to 29th September 2023 organized by National Institute of Technology Warangal.
- Prof. Omesh Wadhwani has attended a one week FDP Training on Management Skills for Professional Teacher Excellence from 16th to 20th October 2023 organized by Media Engineering Department, NITTTR, Chandigarh.

Departmental Activities

Consultancy or any other projects undertaken

- Dr. Purshottam J. Assudani has delivered a corporate training for Tata Consultancy Services (TCS), Indore on “Ms Azure Administrator (AZ-104)” for the employees of TCS. The Consultancy amount generated for the same is Rs. 84,960/-.
- Dr. Purshottam J. Assudani has delivered three corporate trainings on “AWS Certified Developer Associate”, “AWS SysOps Associate” and “AWS Database Migration” for the employees of Vodafone, UK. The participants were from different locations like India, Italy, UK, Spain etc. The Consultancy amount generated for the same is Rs. 1,00,000/-.

Parents Meet and Events

- The Parent Teachers meet was organized by the Department of Information Technology on 4th November, 2023 for III and V 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	Guest Lecture on App Development using Python and Django Framework	Mr. Aakash Jadhav Software Engineer III, Unibuddy	02 hours	01st November 2023
2	Guest Lecture on Planning Career in IT Industry	Mr. Apoorva Munshi Senior Security Engineer, Confluent, Seattle, US	01 hour	20th November 2023
3	Guest Lecture on Drafting Documents for Employability & Improving Visibility on Professional Social Media Network	Ms. Shubhada Jambhekar	02 hours	25th November 2023
4	Course Conduction on ITT359-01 IT Infrastructure Services	Mr. Madan Tiwari Cloud Migration Consultant Masy Coda Solutions, Nagpur	10 Hours	25th November 2023
				29th November 2023
				02nd December 2023

Any Other Activity (s) :

Patents Filed / Published / Granted :

S.No	Name of the Inventor(s)	Name of the Patent	Patent Registration Number/ Status	Date / Year
1	1. Dr. P. D. Adane 2. Dr. D. S. Adane 3. Himaja Phadke	A Novel Music Application based on Mood Detection	Granted Date of Grant: 19-12-2023 Patent No: 485223 Application No: 201921029126 Date of Filing: 19-07-2019	For 20 years from 19-07-2019
2	1. Dr. D. S. Adane 2. Krishnakant Joshi	IOT based Framework for Garbage Management	Granted Date of Grant: 01-01-2024 Patent No: 492505 Application No: 201921023284 Date of Filing: 12-06-2019	For 20 years from 12-06-2019
3	1. Dr. D. S. Adane 2. Dr. P. D. Adane 3. Shivam Sahu	A Robotic Device For Spraying Pesticides	Granted Date of Grant: 28-12-2023 Patent No: 491115 Application No: 202021055807 Date of Filing: 22-12-2020	For 20 years from 22-12-2020
4	Dr. A. V. Chandak	A System and Method for Supervising and Controlling One and More Industrial Application Machines	Granted Date of Grant: 29-12-2023 Patent No: 491905 Application No: 202021057490 Date of Filing: 31-12-2020	For 20 years from 31-12-2020

Beyond Academics :

- 64% of 2023-24 Batch eligible IT students 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.
- 36 students went for Full Time Internship in VIII semester till date.
- The placement details of department for the session 2023-24 are as follows :

Sr. No.	Company Name	No. of Offers
1	IBM	13
2	Cloud4C	07
3	Accenture	14
4	C & R Software	02
5	Porter	01
6	Innovapptive	02
7	Construct	01
8	Persistent	01
9	Cisco	01
10	Nutanix	01
11	Fendahl	01

Department of Industrial Engineering

Faculty Corner

Publications

1. Prof. Mangesh Joshi has published a paper titled "Uncovering Issues Impacting Mobile Banking Performance using ISM-MICMAC Approach" in Journal of Scientific & Industrial Research (JSIR) with ISSN 2320-4818
2. Dr. Yogesh Deshpande has published a paper titled "Application of Smart Strategies for Sustainable Manufacturing of Conventional Machining Process: A Review" in Journal of The Institution of Engineers (India) with ISSN 2250-0553.
3. Dr. Yogesh Deshpande has published a paper titled "Enhancing the Machinability of Inconel 625 Milling using Cryogen and Blend of Biodegradable oils and Application of Advanced Algorithms" in Journal of the Brazilian Society of Mechanical Sciences and Engineering with ISSN 2250-0545.
4. Prof. Sachin S. Pund has published a paper titled "An Intellectual Fusion Classification Prototypical for an Imbalanced Electrocardiogram Data" in SN Computer Science Springer Nature .
5. Prof. Sachin S. Pund has published a paper titled "A Computer-Aided Diagnosis-Based Analysis for a Model-Based Approach for Lung Segmentation" in SN Computer Science Springer Nature .
6. Prof. Sachin S. Pund has published a paper titled "An Improved Gaussian Procedure Regression-founded Predicting Prototype for COVID-19 Eruption and Implication of IoT for its Recognition" in International Journal of Intelligent Systems and Applications in Engineering with ISSN 21476799
7. Prof. Sachin S. Pund has published a paper titled "A Secure Multi-Path Communication through Dynamic Path Identifiers to Prevent Denial-of-Service Flooding Attacks" International Journal of Intelligent Systems and Applications in Engineering with ISSN 21476799.
8. Prof. Sachin S. Pund has published a paper titled "A Secure IoT Smart Network Model for the Contributory Broadcast Encryption for the Text Policy Management Scheme" International Journal of Intelligent Systems and Applications in Engineering with ISSN 21476799.
9. Prof. Sachin S. Pund has published a paper titled "Prediction Analysis of Human Motion Dynamics using Digital Human Modeling tool JACK" Mathematical Statistician and Engineering Applications with ISSN 2094-0343/2326-9865.
10. Prof. Sachin S. Pund has published a paper titled "Enhancing Plant Layout Optimization: A Multi-Criteria Decision-Making Approach Using Metaheuristic Algorithms Corelap, Aldep And Python Programming" in European Chemical Bulletin with ISSN 2063-5346.

STTP/FDP/other Training Attended by Faculty

1. Dr. Yogesh Deshpande attended a FDP from 15/12/2023 to 19/12/2023 on "Advances in Industrial and Manufacturing Operations: Applications and Practices (AIMOAP-23)" organized by NIT Kurukshetra.
2. Dr. Ashwin Chatpalliwar attended a FDP from 15/12/2023 to 19/12/2023 on "Advances in Industrial and Manufacturing Operations: Applications and Practices (AIMOAP-23)" organized by NIT Kurukshetra.

- Prof. Sachin Pund attended a FDP from 15/12/2023 to 19/12/2023 on "Advances in Industrial and Manufacturing Operations: Applications and Practices (AIMOAP-23)" organized by NIT Kurukshetra.

Departmental Activities

Conference, STTP and Guest Lectures organized in Department

S.No.	Conference/STTP/Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Career Opportunities across the world	Mr. Krunal Gajbhiye, Ex. Asst. Manager, NABARD	2 hours	16 th January 2023

Students' Corner

S. No.	Name of Student	Event type	Event Name	Organizing Agency*	Achievement*	Date of event*
1	Muskaan Tekchandani	Conference	8th International Conference On Sustainability And Management Strategy	IMT, Nagpur and Neeri	Participated	15 th Dec 2023
2	Tushar Manik chafekar	Internship	Cloud Computing	AWS Academy	Completed	25-11-2023
3	Tarika Jaikishan Jaikalyani	Internship	Cloud Computing	AWS Academy	Completed	23-10-2023
4	Unnati Wahane	Online Courses	Python Data Structures	Coursera	Completed	10-11-2023
5	Atharva Narendra Zade	Training	DYS Course,	International Society for Krishna Consciousness	Completed	21-08-2023
6	Shreya hiwale	Online Courses	Advanced Digital Marketing	Digital Magnet	Completed	05-11-2023

Department of Mechanical Engineering

Faculty Corner

Publications

1. Dr. Pranjali Deole presented a paper titled "Analysis of Crank-Rocker Inflection Circle behaviour at singularity poses," at the 16th IFToMM World Congress 2023. The conference was scheduled from June 5th to 10th November, 2023, at Nishi-Shinjuku, Tokyo, Japan. The paper is published in scopus indexed Book chapter ,Advances in Mechanism and Machine Science by Springer.
2. Dr. Pranjali Deole presented a paper titled "Survey of Graphic Software for teaching Mechanism Synthesis using Path Curvature Theory” at the 16th IFToMM World Congress 2023. The conference was scheduled from June 5th to 10th November, 2023, at Nishi-Shinjuku, Tokyo, Japan.
3. Dr. Pranjali Deole presented a paper titled "Effect of Pcm Embedding on Indoor Temperature Through Building Wall" at the 9th International conference on advances in energy research ICAER 2023. The conference was scheduled from June 12th to 14th December 2023, at the Department of Energy Science and Engineering, IIT Bombay, Mumbai Maharashtra.
4. Dr. Pranjali Deole presented a paper titled “ Experimental investigation and modelling for surface roughness and tool vibrations using EDM textured cutting tools” at the 38th National convention of mechanical engineers (38NCMC)and National seminar on Emerging Trends and developments on smart manufacturing, renewable energy and Mechanical systems diagnosis/design held on the 8-9 Sept 2023 organised by Institutions of Engineers & VNIT Nagpur.
5. Sandeep Joshi, Pranjali Tete, Mahendra Gupta, A comparative study of novel designs of liquid-cooled battery thermal management systems, Transportation Research Procedia, Volume 70, 2023, Pages 130-137, <https://doi.org/10.1016/j.trpro.2023.11.011>. (SCOPUS Indexed).
6. Dr. A. K. Jha has published a Journal paper titled- Self-Directed Mobile Robot Navigation Based on Functional Firefly Algorithm (FFA) ISSN: 2673-4117 <https://doi.org/10.3390/eng4040152>(SCOPUS Indexed)
7. Dr. P. B. Shiwalakr has published a conference paper titled - Anticipating application of Machine learning techniques for effective synthesis of Straight-Line Crank Rocker in Tokyo, Japan.
8. Dr. V V Shukla presented a paper on development of a reptile robot at IEEE conference on Engineering Informatics organized by Sanjay Ghodawat University Kolhapur on 26 Nov 2023

Patent Granted

1. A Patent on “Notching Machine” is granted to Prof. Bhushan Bissa on 27 Dec 2023
2. A Patent on “A Device for Punching and Stapling” is granted to Dr. Yeshwant M. Sonkhaskar on 26 Dec 2023
3. A Patent on “A Pneumatic Sand Rammer with Vibration Isolator” is granted to Dr. Vishal V. Shukla on 26 Dec 2023
4. A Patent on “Generation Of Electricity By Using Pressure Energy Of The Railway Track” is granted to prof. Bhushan Bissa on 20 Dec 2023
5. A Patent on “A Solar Powered Intake Turbo Fan For Motor Vehicles” is granted to Dr. Sandeep Joshi on 20 Dec 2023

6. A Patent on “A Device for Generating Profile on Pipes” is granted to Dr. Vishal V. Shukla on 19 Dec 2023
7. A Patent on “Punching and Stapling Device” is granted to Dr. Y. M. Sonkhaskar on 14 Dec 2023
8. A Patent on “A Continuous Automatic Variable Transmission (CAVT) System” is granted to Dr. Y. M. Sonkhaskar on 08 Dec 2023
9. A Patent on “Air Flow Accelerator And Turbulence Generator In Intake Manifold Of Single Cylinder C.I. Engine” is granted to Dr. S. S. Joshi on 13 Nov 2023
10. A Patent on “A System For Cooling Of Battery Cell” is granted to Dr. S. S. Joshi on 03 Nov 2023
11. A Patent on “Quick Return Motion Cutting Machine” is granted to Dr. Y. M . Sonkhaskar on 11 Oct 2023

Patent Filed

1. Dr. Sandeep S. Joshi, Prof. Sujit A. Patil, filed a patent on “A Rear View Mirror Haze Removal Using Heating, Ventilation and Air Conditioning Unit” on 06 Oct 2023
2. Dr. Sandeep S. Joshi, Prof. Sujit A. Patil, filed a patent on “A Rear View Mirror Haze Removal System Utilizing Engines Heat” on 06 Oct 2023
3. Dr. Sandeep S. Joshi, Prof. Sujit A. Patil, filed a patent on “A Rear View Mirror Haze Removal Using Heater-Blower System” on 06 Oct 2023
4. Dr. Sandeep S. Joshi, Prof. Sujit A. Patil, filed a patent on “A Heater Coil Emitter System for Dehazing The Rear View Mirrors Using Moisture Sensors” on 06 Oct 2023

STTP/FDP/other Training Attended by Faculty

1. Dr. Yeshwant Sonkhaskar, Prof. Nitin Gudadhe and Dr. S. S. Joshi attended One Day Workshop on "Fire Hazards and safety Strategies for E-Vehicles" from 27/12/2023 to 27/12/2023 National Fire Service college Nagpur.
2. Prof. S. S. Deshmukh attended 8 Week NPTEL Course Accreditation and Outcome based Learning .

Departmental Activities

Conference, STTP and Guest Lectures organized in Department

S.No.	Conference/STTP/Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Guest Lecture on Industrial Robotics & Automation and Its Future Opportunities	Mr. Anil Tatode, Training Officer, Dept. of Robotics and Cloud Technology, RTMNU, Nagpur	1 Hr	10.10.23

Students' Corner

Students in Higher Studies

Mr. Shivnarayan Mishra, A passout of Mechanical Engineering 2023 Batch joined M. Tech. Program at VNIT Nagpur

Department of Chemistry

Faculty Corner

Guest Lectures taken by faculty

Dr. Sanjogta Meshram has delivered the guest lecture on topic, “Interpretation of Organic Compounds by IR and NMR Spectroscopy” at Vidhya Bharati Mahavidhyalaya, Campus Amravati on 18th of October 2023.

STTP/FDP/Other Training Attended by Faculty :

Dr. Sanjogta Meshram has successfully completed the 12week (July-Oct 2023) NPTEL Course on 'Drug Delivery: Principles and Engineering'.

Dr. Sanjogta Meshram has successfully presented her research paper in 6th International Conference on Nanomaterials for Energy and Environment [Nano-E2] between 21st to 23rd of December 2023 at New College Kolhapur. Conference was organized by Department of Chemistry, New College, Kolhapur and Shri Yashwantrao Patil Science College, Solankur. Her topic of presentation was, “Nanomaterials for Biomedical Applications: A Review”.

Any Other Activity (s) :

Dr. P. A. Mangrulkar was invited as a Judge for Atal Annual Mega Festival 2023-23 at R. S. Mundle English School and Junior College, Nagpur on 18 th December-2023/

Department of Physics

Faculty Corner Patent Granted

Dr. Renuka Nafdey has filed the patent “Downshifted ultraviolet point source” is published on 15 December 2023.

Publications

1. Dr. Yatish Ratn Parauha has published a paper titled “Investigations of thermoluminescence characteristics of $\text{SrAlBO}_4\text{:Eu}^{3+}$ phosphors irradiated with gamma rays and carbon ion beam” in Luminescence (Wiley) with ISSN No: 1522-7243. (SCI/Scopus).
2. Dr. Yatish Ratn Parauha has published a paper titled “Improvement in spectroscopic properties of Dy^{3+} doped $\text{Ba}_2\text{Mg}(\text{PO}_4)_2$ phosphors through substitution strategy” in Materials Today Communication with ISSN No: 2352-4928 Volume 37 (SCIE).
3. Dr. Yatish Ratn Parauha has published a paper titled “Synthesis and photoluminescence properties of NUV excited $\text{Ba}_2\text{MgWO}_6\text{:Mn}^{2+}$ phosphor” in Bulletin of Material Science with ISSN No: 0973-7669 Volume 46(228). (SCI/Scopus)
4. Dr. P.D. Belsare has published a paper titled “ Tb^{3+} activated garnets for some novel applications” in Journal of Optics (SCIE) dated 22 Nov.2023.
5. Dr. P.D. Belsare has published a paper titled “Effect of lanthanide doping on the optical properties of Barium Yttrium Borate, Radiation Effects and Defects in Solids” in Radiation Effect and Defect (SCIE) dated 28 December 2023.
6. Dr. S. N. Kulkarni has published a paper titled “Luminescence in synthetic boromullite prepared by combustion synthesis” in Radiation Effect and Defect (SCIE) dated 05 October 2023.
7. Dr. R.A. Nafdey has published a paper entitled “NIR emission from Nd^{3+} doped Sr_3WO_6 distorted triclinic phosphor, Ashvini Pusdekar, N. S. Ugemuge, Renuka Nafdey, Pradyuman Singh, I. M. Nagpure & S. V. Moharil, Radiation Effects and Defects in Solids (SCIE), published 23rd October 2023.
8. Dr. Rupesh A Talewar has published a single author paper entitled “Improving the UV–Vis light-harvesting of Er^{3+} using Mn^{4+} as a sensitizer in Li_2TiO_3 host” in the journal of Luminescence Volume 266, February 2024, 120307 (SCIE publication).
9. Dr. Rupesh A Talewar has published a paper entitled “Sensitizing visible and near-infrared lanthanide ($\text{Ln}^{3+} = \text{Er}^{3+}/\text{Ho}^{3+}$) luminescence within a semiconductor Sr_2CeO_4 host” in the journal of Journal of Materials Science: Materials in Electronics Volume 34 (2023) 2209. Two co-authors of this paper are students of B. Tech First Year Mr. Maniraj Singh and Mr. Abhishek Patel of the Electronics and Computer Science department is also part of this research work (SCIE publication).
10. Dr. Rupesh A Talewar has published a paper entitled “Blue LED (InGaN)-driven yellow and red emitting phosphor for white light generation” in the journal of Journal of Materials Letters 348, 134727 (SCIE publication).

STTP/FDP/other Training Attended by Faculty

1. R. U. Tiwari has attended an FDP/Training from Aug.23 to Oct.23 (8 Week) organized by NPTEL Collaboration with IIT Kharagpur.
2. Dr. Shraddha S. Joshi has attended an FDP/Training from Aug.23 to Oct.23 (8 Week) organized by NPTEL Collaboration with IIT Kharagpur.
3. Dr. Yatish Ratn Parauha has attended an FDP/Training from Aug.23 to Oct.23 (8 Week) organized by NPTEL Collaboration with IIT Kharagpur.
4. Dr. Shilpa Kulkarni has attended an online FDP on DFT 26th November to 2nd December 2023 organized by Centre for Advanced Computational Research, New Delhi.
5. Dr. Shraddha S. Joshi has attended an online FDP on DFT 26th November to 2nd December 2023 organized by Centre for Advanced Computational Research, New Delhi.

NPTEL OBE Course Attended by Faculty

1. Dr. R. U. Tiwari has been awarded NBA-required accreditation and outcome-based learning course certificate.
2. Dr. Shraddha S. Joshi has been awarded NBA-required accreditation and outcome-based learning course certificate with a Gold Medal.
3. Dr. Yatish Ratn Parauha has been awarded NBA-required accreditation and outcome-based learning course certificate with a Silver Medal.

Department of Physical Education

Faculty Corner :

- 1) Dr. Amrita Pande represented Maharashtra as the 'Chief Coach' of the Women's Sepak Takraw team for the 37th National Games, which was held at Goa from 28th October to 06 November 2023.
- 2) Dr. Amrita Pande was the member of the Organising Committee and was the Master of Ceremony as well as the Resource Person for one of the Session of the 7th PEFI National Conference of Sports Sciences, which was held at Pragati Maidan, New Delhi on 14-15 December 2023. She also presented a Research Paper on 'A Comparative Study of Selected Personality Factors of Rural and Urban Areas of Hockey Players'.
- 3) Dr. Amrita Pande, Asst. Professor from the Department of Physical Education was invited over as the Lead National Speaker at the 'International Conference on Holistic Approach towards Performance & Safety in Sports' organized by Sri-Sri University, Cuttack (Orissa) on 20-23 December 2023 and presented a research paper on 'Decoding Athlete's Personalities: OCEAN Traits in Gender, Locus of Control and Success Orientation'.

Sports Activities

RTMNU Inter-Collegiate :

In a remarkable show of sportsmanship, 177 students from RCOEM enthusiastically took part in the RTMNU's Inter-Collegiate Tournament across various events during the period of October to December. A detailed information can be found in the table below. This strong representation not only highlights the athletic prowess of RCOEM but also emphasizes the commitment of its students to excel in diverse sporting competitions.

Sr. No	Game	Date	Venue	No. of Participants	Rank
1	Football (W)	16/10/23 - 18/10/23	IDCPE College	13	Participation
2	Football (M)	19/10/23 - 23/10/23	IDCPE College	16	Participation
3	Basketball (W)	12/10/23 - 14/10/23	RTMNU Basketball Court	12	Second
4	Table Tennis (M)	16/10/23 - 18/10/23	RTMNU TT Hall	4	Third
5	Table Tennis (W)	19/10/23 - 21/10/23	RTMNU TT Hall	3	Second
6	Chess (M)	16/10/23 - 19/10/23	St. Vincent Pallotti College	6	First
7	Chess (W)	16/10/23 - 19/10/23	St. Vincent Pallotti College	6	First
8	Basketball (M)	16/10/23 - 19/10/23	RTMNU Basketball Court	12	Participation
9	Taekwondo (M)	15/10/23 - 16/10/23	RTMNU Subhedar Hall	1	Participation
10	Taekwondo (W)	15/10/23 - 16/10/23	RTMNU Subhedar Hall	1	Participation
11	Kabaddi (M)	19/10/23 - 23/10/23	Mohata Science College	13	Participation
12	Judo (M)	30/10/23 - 1/11/23	JCPE, Hinga	1	Participation
13	Volleyball (W)	31/10/23 - 1/11/23	Mohata Science College	12	Participation
14	Athletics (M)	27/10/23 - 30/10/23	RTMNU Synthetic Track	13	Participation
15	Athletics (W)	27/10/23 - 30/10/23	RTMNU Synthetic Track	8	Participation
16	Kho Kho (M)	2/11/23 - 5/11/23	RTMNU Ground	12	Participation
17	Badminton (M)	4/11/23 - 5/11/23	DNC College	6	Participation
18	Badminton (W)	4/11/23 - 5/11/23	RTMNU Subhedar Hall	5	Participation
19	Volleyball (M)	4/11/23 - 6/11/23	RTMNU Ground	11	Participation
20	Swimming (W)	6/12/23 - 9/12/23	Dutta Meghe	5	Participation

21	Yogasana (W)	22/11/23	Nabira Mahavidyalay, Katol	4	Participation
22	Powerlifting (M)	24/11/23 - 25/11/23	Tirpude College	7	Participation
23	Lawn Tennis (M)	23/11/23 - 25/11/23	Officers Club	2	First
24	Lawn Tennis (W)	23/11/23 - 24/11/23	Officers Club	2	First
25	Shooting (M)	24/11/23	Krida Sankul, Ahuja Nagar	1	Participation
26	Fencing (W)	11/12/23	Anjuman Girls Degree College	1	Participation

All India / West Zone Inter University Tournament

08 Students of RCOEM excelled in the Inter-Collegiate Tournament and were selected in the RTMNU's Team for the West Zone Championship. The Following student's represented Nagpur University in the All India/ West Zone Inter University Tournaments.

Sr. No.	Game	Name	Branch	Year	Date	Venue
1	Lawn Tennis (M)	Anand Marathe	ECU	III	28 November - 4 December	ITM University Gwalior
2	Chess (W)	Tanya Pandey	ECU	III	21 – 24 November	HSNC University, Mumbai.
		Seeya Thakre	DS	II		
		Maithili Khuje	ECU	I		
3	Badminton (M)	Jaskaran Suri	MECH	IV	25 – 29 December	Shri. Devi Ahilya University, Indore
4	Basketball (W)	Devashree Ambegaokar	CSE	III	30 December - 3 January	ITM University Gwalior
		Arya Dongre	ECE	III		
		Preeti Sathawane	ENCS	I		



Arya Dongre & Priti Sathavne (Basketball W)



Tanaya Pandey, Seeya Thakre & Maithili Khuje (Chess W)



Basketball (W)



Chess (W)



Anand Marathe (Lawn Tennis) - Centre



Jaskaran Suri (Badminton) – Extreme Left

Invitational Inter Collegiate Tournament DNC Krida Mahotsav :

The students of RCOEM actively participated in the DNC's Krida Mahotsava which was held at Dhanwate National College from 2nd October to 6th October 2023. Student's showcased their active involvement and secured prizes across various events.

Sr. No.	Game	Date	Venue	No. of Participants	Rank
1	Football (M)	2/10/23-6/10/23	DNC College	16	Participation
2	Badminton (M)	3/10/23-6/10/23	DNC College	6	Participation
3	Badminton (W)	3/10/23-6/10/23	DNC College	5	Third
4	Table Tennis (M)	3/10/23-6/10/23	DNC College	3	Third
5	Table Tennis (W)	3/10/23-6/10/23	DNC College	4	Second
6	Chess (Mix)	3/10/23-6/10/23	DNC College	5	Second
7	Basketball (M)	3/10/23-6/10/23	DNC College	12	Third
8	Kabaddi (M)	3/10/23-6/10/23	DNC College	12	Participation
9	Volleyball (M)	3/10/23-6/10/23	DNC College	12	Fourth
10	Volleyball (W)	3/10/23-6/10/23	DNC College	12	Third
11	Cricket (M)	9/10/23 - 22/10/23	DNC College	17	Second



U-21 Youth State Volleyball Championship :

Anish Patankar, a promising athlete from B. Tech II Year (AIML Branch) RCOEM, showcased exceptional skill and sportsmanship at the U-21 Youth State Volleyball Championship held in Chandrapur from November 24-26. Representing Nagpur with enthusiasm, he demonstrated outstanding performance, contributing to the city's strong presence in the competition. Anish was also a member of the Volleyball Men's team, that participated in the Dhanwate National College's Dr. Punjabrao Deshmukh Krida Mahotsava 2023 Volleyball Championship which secured Fourth Position.

RCOEM participated in the Invitational Inter Collegaite Footsal Tournament organised by G.H.Raisoni College of Engineering & Technology, Nagpur from 04-05th November 2023.

Inter Branch Sports Cup : The Inter Branch Sports Cup was organised by the Dept. of Physical Education at RCOEM, which took place from 4th October to 3rd November 2023. The event witnessed active participation from students, making it a memorable and successful event. The students competed fiercely showcasing their talents and skills. The event not only promoted physical fitness and well-being but also emphasized the importance of sportsmanship, teamwork and healthy competition.

Sr. No.	Event	Date	No of Teams	No of Participants	I Position	II Position
1	Throwball (W)	04/10/23 -07/10/23	11	109	CSE	AIML
2	Badminton (M)	09/10/23 -12/10/23	14	62	MECH	CSE
3	Badminton (W)	09/10/23 -12/10/23	12	43	MBA	ECE
4	Basketball (W)	10/10/23 -13/10/23	9	71	CSE	ECE
5	Tag Rugby (M)	10/10/23 -14/10/23	14	110	IT	MECH
6	Cricket (W)	30/10/23 -03/11/23	14	119	EN	ECE
7	Volleyball (M)	28/10/23 -03/11/23	14	138	EC	EN



Fun Fiesta :

The vibrant students of B.Tech Sem 1 enthusiastically participated in the Fun Fiesta event organized by the Department of Physical Education in collaboration with the Sports Committee of RCOEM. The event took place at St. Mary's Ground from October 25 to October 30, featuring individual and team-based recreational games.



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 at "Prahargadh" Umrer Road, Nagpur from 9th – 10th December 2023. The camp was attended by 50 students (40 Boys and 10 Girls) of B. Tech I year under the liberal Arts Course. They were accompanied by 3 faculties of the department.



Self Defence Essentials and Basic Knowledge Of Defence Forces :

On November 26, 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 Défense Forces" (PEP 0001-22). 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 defense 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 Défense forces.



NATIONAL SERVICE SCHEME (NSS)

Disaster Management Through Adventure Sports :

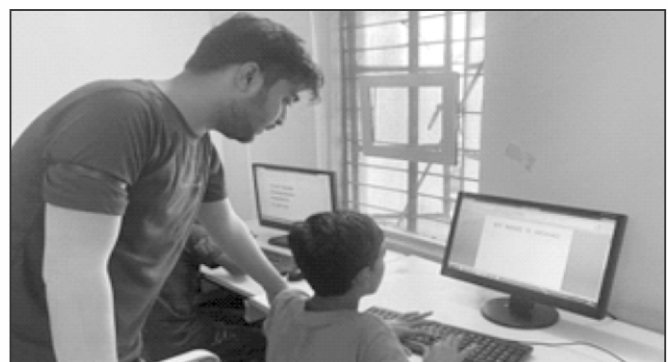
Swacchhanjali (Cleanliness Drive) : Shri Ramdeobaba College of Engineering and Management (RCOEM), Nagpur, in collaboration with Department of physical Education and various student committees including NSS (National Service Scheme), RRC (Red Ribbon Club), SWC (Student Welfare Committee), and other enthusiastic students, organized a remarkable cleanliness drive named "SWACHHANJALI."

The involvement of faculty members from various departments, including NSS Prog officer Dr. Amit Anurag and the Principal Dr. Rajesh Pande himself, in cleaning and brooming the area was a heart-warming display of solidarity and leadership. Their active participation served as an example to both students and the community, emphasizing the importance of collective effort. Total 85 volunteers including 39 girls and 46 boys exhibited exceptional enthusiasm throughout the event.

Blood Donation : The NSS Unit of Shri Ramdeobaba College of Engineering & Management (RCOEM) organized a highly successful Blood Donation Camp on October 5th, 2023, in collaboration with the Dr. Hedgewar Blood Bank. This event, held at the Main Auditorium, saw active participation from students, staff, teaching and non-teaching faculty members. A remarkable total of 406 Units of blood were collected, marking a significant contribution to the community's health and well-being.



SAHYOG : An initiative by the NSS Unit wherein the underprivileged students of the neighbouring areas are provided with Computer Literacy by the students of NSS Unit. The Sahyog Centre re-opened on 03 October 2023 which is a 10 week course which will begin from 07th of October 2023. The classes will be held every Saturday from - 3:30 -5:30 pm and every Sunday from 11-1.00 pm. The batch started with 20 registered students.



National Cadet Corps (NCC)

Aryan Dhawankar, a student of V Semester, Industrial Branch attended the All India Vayusainik Camp-2023. It is a national level camp conducted by NCC conducted in the Air Force Station, Jalhalli, Bangalore in 2023. There are 17 directorates of NCC in India, where only 38 cadets are being selected from each of the 17 directorates to attend this prestigious camp.



Department of Computer Applications

Faculty Corner

Guest Lectures taken by faculty

Prof. Satyajit Uparkar delivered a Guest Lecture on “Importance of Data Mining in Business Research” at Ahirkar Institute of Management Studies, Nagpur on 10th October 2023.

Publications

Dr. Preeti Voditel and Prof. Aparna Gurjar have published a paper titled Image Captioning - A Deep Learning Approach Using CNN and LSTM Network in IEEE Xplore in the proceedings of 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN) Conference on 04 October 2023 (Scopus)

Dr. Preeti Voditel and Prof. Aparna Gurjar have published a paper titled X-ray classification and Prediction of lung disease using Convolutional Neural Network (CNN) in IEEE Xplore in the proceedings of International Conference on Self sustainable Artificial Intelligence System (ICSSAS) Conference on 06 December 2023 (Scopus)

Dr. Preeti Voditel and Prof. Aparna Gurjar have published a paper titled Disease recognition in Plant Leaves using CNN-based Algorithm in IEEE Xplore in the proceedings of International Conference on Self sustainable Artificial Intelligence System (ICSSAS) Conference on 06 December 2023 (Scopus)

Prof. Satyajit Uparkar and et. al., published Research paper titled “ Digitalization of Supply Chain Management: Global Implications, in the proceedings of International Scientific Conference “ Innovative Technologies, Economy and Management in Industry organized by Ministry of Higher Education, Science and Innovation of the Republic of Uzbekistan, held on November 20th, 2023

Prof. Satyajit Uparkar, Prof. Aparna Gurjar Dr. Sachin Upadhye and Prof. Vishnu Vardhan presented a researcher paper “ Competitors Analytical Tool using Game Theory and Big Data Analysis”, 3rd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA 2023), Bangalore held on 21-23 December 2023

Dr. Sachin Upadhye presented a research paper “A Recent Study of Security Techniques for IoT”, in IEEE International Carnahan Conference on Security Technology (ICCST)-2023, Pune held on 11th – 15th October 2023 at CV Raman Auditorium, Defence Institute of Advanced Technology, Girinagar, Pune. The conference is focused on the research, development, testing, and systems engineering of electronic security technology, including the operational testing, life-cycle, and performance.

Dr. Sachin Upadhye presented a research paper “Methods for the Early Diagnosis of Autism Spectrum Disorder Using Machine Learning and Deep Learning”, in 3rd International E-Conference on Mechanical and Material Science Engineering: Innovation and Research 2023, Nashik held on December 12-13, 2023 at Sandip Institute of Technology & Research Centre, Nashik India.

Dr. Sachin Upadhye presented a research paper “A Survey on Green IoT and Its Opportunities for Future Directions”, in IEEE Sponsored International Conference on Advanced Computing and Communication Technologies (ICAACTech 2023), Banur, Punjab. held on December 23–24, 2023 at Swami Vivekanand Institute of Engineering and Technology Banur, Punjab, India. He also got the Best Research Paper award for this paper.

STTP/FDP/other Training Attended by Faculty

Prof. Yoginee Pethe has attended a FDP on Integrating Excel and Python for Advanced Technical Analysis of Stock Market Data from 16/10/2023 to 20/10/2023 organized by IIIT, Nagpur.

Prof. Satyajit Uparkar successfully completed Faculty Development Program on Introduction to Internet of Things under NPTEL Online Certification of July–October 2023.

Prof. Aparna Gurjar has successfully completed Faculty Development Program on Deep Learning conducted by AICTE and NPTEL Online Certification of July–October 2023.

Dr. Sachin Upadhye successfully completed a 12 week Faculty Development Program on Introduction to Internet of Things with a score of 80 % under NPTEL Online Certification of July–October 2023.

Departmental Activities

Parents Meet, Alumni Meet and Departmental Installations or Events

Parents-Teachers meet was conducted by the Department of Computer Applications on 21st October 2023 for Semester-1 and Semester-3 students, 11:00 am onward. The main objective of this meet was to get the feedback from parents regarding the teaching learning process being followed by the Computer Application Department and also get useful suggestions from them. The parents interacted with the Head of the Department, Dr. P. S. Voditel and appreciated the MCA Faculty members of the concerned courses for their innovative teaching efforts as well as guidance provided to their ward and expressed deep satisfaction about the Department.



*Head, Dept. of Computer Applications
interacting with a parent*



Class Teachers interacting with parents

Conference, STTP and Guest Lectures organized in Department.

Mr. Rajdeep Nagwani, Entrepreneur and Consultant of RajPedia, delivered a Guest Lecture on Artificial Intelligence Tools on 28th Nov., 2023. Total 79 MCA Students attended this session along with the faculty coordinator Prof. Aparna Gurjar.

Two mental health awareness programs "Mind your Mind" were conducted for first year MCA students of division-I and 2 on 7th Oct 2023 and 23rd Nov 2023. The sessions were conducted by Ms. Deoyani Shrikhedkar, a renowned soft skills trainer along with her team. The sessions were very interactive and useful. Prof. Yoginee Pethe and Prof. Manda Ukey coordinated this event for their respective divisions. Around 100 students participated and benefited from the sessions. (Attach the below pasted photograph)



Guest Lecture Mind your Mind conducted at Dept. of Computer Applications

Any other activity (s) :

Dr. Preeti Voditel, Head MCA, has been invited for the India International Science Festival (IISF), an initiative of the Ministry of Science and Technology and Ministry of Earth Sciences, Government of India, in association with Vijnana Bharati, as an Expert for the Space Hackathon.

Dr. Preeti Voditel has been appointed as member of the RTMNU Nagpur University committee for evaluating the increase in intake for new courses for the session 2024-25.

Prof. Satyajit Uparkar was appointed By RTM Nagpur University, Nagpur as Committee Member for New Courses session 2024 -25 onwards at SFS College Nagpur and Vidya Niketan College.

Total 32 students of MCA Semester-III, successfully completed Phase –I of One Year Internship at various IT companies including Siemens, Tec-walnut, Great Place IT, Ellite Back Office. According to MCA Placement Statistics till 31st December 2023 total 45 Out of 124 MCA Summer 2024 passing batch have received Pre-Placement offers from IT Companies including Siemens, Fendhal Technology , IBM, Accenture, Tec-walnut, Great Place IT, Ellite Back Office. The highest Package of 7.5 LPA is offered by Fendhal Technology and the median salary marks 3.6 LPA.

Department of Management Technology Management Development Program Drivers for Business Success

Department of Management Technology, Shri Ramdeobaba College of Engineering and Management, Nagpur, organized the Management Development Program 'Drivers for Business Success' on Saturday, October 28, 2023.

The speaker for the session-Mr. Pramod Deshpande, Alumnus IIT Powai, Founder Forum System, Huntington Beach CA, Founder Eforum Systems, Nagpur, India, and Cofounder of PowerPlan Corporation Huntington Beach CA shared valuable insights on relevance and role of OKR and KPI for business growth.

The event was marked by the presence of Dr. Rajesh Pande, Principal, RCOEM, and Dr. Rupesh. Pais, Head, DMT, RCOEM, and participants from industries. Dr. Kanak Wadhvani, Coordinator, MDP expressed gratitude towards speaker and the industry participants on successful completion of the event.



Brief Report on Training Consultancy at VANAMATI, Nagpur during October-November 2023

Department of Management Technology conducted the training program for MPSC Probationary Officers at VANAMATI, Nagpur during October – November 2023. 240 newly recruited officers who passed MPSC examination and appointed in varied departments of government were the participants. The training module offered to MPSC Probationary Officer was based on the various topics of General Management and Organizational Behaviour. The training program was coordinated by Dr. Vikram K. Joshi. The following faculty members from DMT contributed as resource person in the training program.

- | | |
|------------------------|---------------------------|
| 1. Dr. Vikram K. Joshi | 6. Dr. Kanak Wadhvani |
| 2. Dr. Parihar Dahake | 7. Prof. Rijuta Joshi |
| 3. Dr. Sunita Dhote | 8. Dr. Vishal Mehta |
| 4. Dr. Abhijeet Agashe | 9. Dr. Prashant Chajjer |
| 5. Dr. Rajiv Khair | 10. Prof. Himanshu Shukla |

The training program was a great success and was highly applauded by the participants and organizers.

TEMPLE REPORT

DATE	EVENT	ACTIVITY
01-10-2023	Bhajan Sandhya	Bhajan By Shri Ramdeobaba Bhakt Kirtan Mandal
03-10-2023	Sunderkand	Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal
04-10-2023	Bhagwath Katha	Bhagwath Katha By Krishna Medha Das Ji Maharaj
05-10-2023	Bhagwath Katha	Bhagwath Katha By Krishna Medha Das Ji Maharaj
06-10-2023	Bhagwath Katha	Bhagwath Katha By Krishna Medha Das Ji Maharaj
07-10-2023	Bhagwath Katha	Bhagwath Katha By Krishna Medha Das Ji Maharaj
08-10-2023	Bhagwath Katha	Bhagwath Katha By Krishna Medha Das Ji Maharaj
09-10-2023	Bhagwath Katha	Bhagwath Katha By Krishna Medha Das Ji Maharaj
10-10-2023	Bhagwath Katha	Bhagwath Katha By Krishna Medha Das Ji Maharaj
15-10-2023	Bhajan Sandhya	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal
22-10-2023	Bhajan Sandhya	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal
24-10-2023	Dashmi/dasera	Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal
29-10-2023	Bhajan Sandhya	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal
31-10-2023	Sunderkand	Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal
05-11-2023	Bhajan Sandhya	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal
07-11-2023	Sunderkand	Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal
12-11-2023	Deeputsav	Deeputsav Celebrated
14-11-2023	Duj	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal
19-11-2023	Bhajan Sandhya	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal
22-11-2023	Annkoot	Decoration With Flowers Chhapan Bhog And Prasad Distribution
26-11-2023	Bhajan Sandhya	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal
28-11-2023	Sunderkand	Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal
03-12-2023	Bhajan Sandhya	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal
05-12-2023	Sunderkand	Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal
10-12-2023	Bhajan Sandhya	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal
12-12-2023	Sunderkand	Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal
14-12-2023	Duj	Flower Decoration And Bhajan Sandhya
17-12-2023	Bhajan Sandhya	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal
19-12-2023	Sunderkand	Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal
24-12-2023	Bhajan Sandhya	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal
25-12-2023	Dutt Jayanti	Flower Decoration Of Dutt Bhagwan Idol
26-12-2023	Sunderkand	Sunderkand By Shri Ramdeobaba Bhakt Kirtan Mandal
31-12-2023	Bhajan Sandhya	Bhajan Sandhya By Shri Ramdeobaba Bhakt Kirtan Mandal



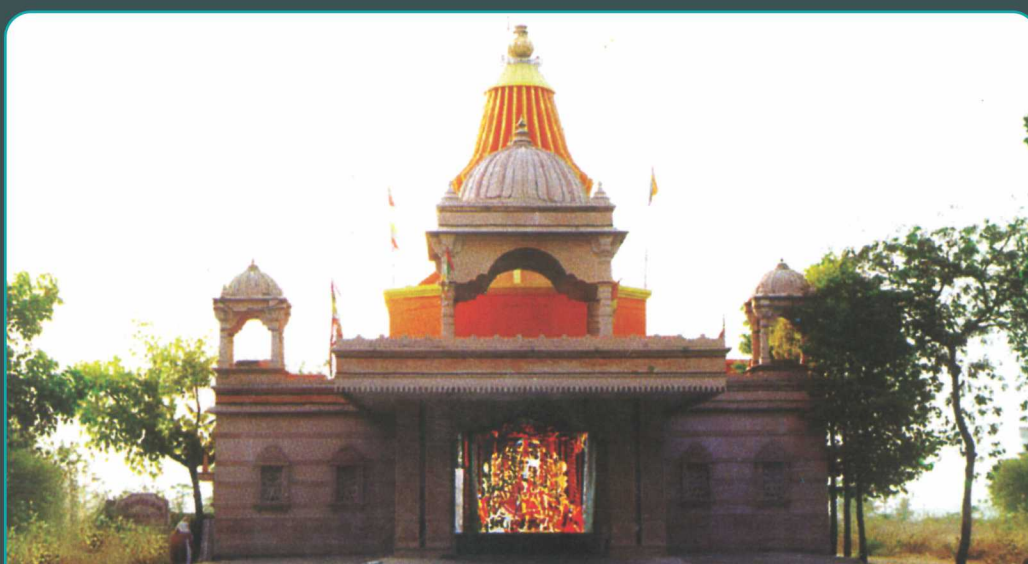
Reflection

NEWSLETTER

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