

IEI

Students' Chapters

EXPLOTECH 2023-24

About Institute

“Education is the passport to the future, for tomorrow belongs to those who prepare for it today.”

Dr. Mohan Gaikwad-Patil, with more than 35 years of experience in the education system to his credit, established the Gaikwad-Patil Group of Institutions in Nagpur to cater to the quality education needs of the youth in Vidarbha. His early experience teaching in an engineering college made him acutely aware of the dissonance between engineering education in the country and the requirements of the industry. He therefore began with the dream of starting an engineering college that equips students with knowledge, skills, and attitudes relevant to the industry. That dream has manifested today in the form of an educational group well known in the region for its constant striving to impart quality and industry-relevant education to the students by teaching courses like B.Tech, M.Tech, Architecture, Polytechnic, MBA, MCA, Pharmacy, BAMS, Physiotherapy and Nursing. Hardly in his early forties, Dr. Mohan Gaikwad-Patil is the young and dynamic face of the group. His contagious enthusiasm and unflagging drive are truly inspiring.



Our Inspiration



Late Shri. Tulsiramji Gaikwad-Patil
(1st April 1915 - 18th July 1986)

The Gaikwad-Patil Group derives its inspiration from Late Shri. Tulsiramji Gaikwad-Patil, the grandfather of the Chairman of the Group, Dr. Mohan Gaikwad-Patil. A man far ahead of his times, Shri. Tulsiramji Gaikwad Patil was primarily an agriculturist, but also a true connoisseur with many varied interests. One of his passions was education. This visionary bucked the trend of sending sons into agriculture and ensured excellent education for his children and grandchildren. It was his foresight that took the family from being rural landlords to urban, uber-class professionals and entrepreneurs. It would not be far wrong to say that the real foundation of the Gaikwad-Patil Group was laid by Shri. Tulsiramji Gaikwad-Patil ability to look into the future.

FROM MANAGEMENT DESK



Dr. Mohan Gaikwad-Patil
Chairman, Gaikwad-Patil Group

“EDUCATION IS THE PASSPORT TO THE FUTURE, FOR TOMORROW BELONGS TO THOSE WHO PREPARE FOR IT TODAY.”

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Mr. Akash Gaikwad-Patil
Vice Chairman, GPG

“EDUCATION IS NOT PREPARATION FOR LIFE, EDUCATION IS LIFE ITSELF.”

In a world brimming with challenges, the need for brilliant engineers who can think critically, solve problems creatively, and adapt to a rapidly evolving technological landscape has never been greater. At TGPCET, we are committed to providing an education that goes beyond textbooks. Our curriculum is meticulously crafted to equip students with the technical expertise, soft skills, and design thinking abilities necessary to thrive in the ever-changing engineering landscape. We believe in nurturing well-rounded individuals with a strong foundation in ethics, social responsibility, and a passion for making a positive impact on the world. Our state-of-the-art facilities, coupled with a dedicated and experienced faculty, provide a stimulating learning environment that ignites curiosity and encourages exploration. We don't just produce engineers; we empower future leaders, innovators, and entrepreneurs who will shape the world of tomorrow. We are confident that our graduates will be at the forefront of technological advancements, tackling global challenges, and building a future brimming with possibilities.



Dr. Anjali Patil-Gaikwad
President, GPGI

With first class post graduate degrees in English Literature, Mass Communication and Sociology, plus M. Phil. in English Literature and Ph. D. in English, Dr. Anjali Patil-Gaikwad is an academician of repute. In addition to regular participation and paper presentation in national and international seminars, she has also been organizing international seminars on teaching and learning of English as a Second Language every year. Formerly associated with the Indian Liberal Group, she was the Secretary General of Liberal Youth South Asia, and has extensively toured various countries such as U. S., Germany, Belgium, Nepal, Sri Lanka, UAE, Mauritius, Thailand etc. She was also elected to the Senate of RTM Nagpur University.



Dr. Sandeep Gaikwad
Treasurer, GPGI

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) is one of the most prestigious college of central India. The institute was established in the year 2007-2008, the college has made tremendous progress in diversified fields, thanks to the contributions from philanthropists, Technology experts, dedicated staff and the continuous support of the Board members. The essence of the life is to live a life for others and die for a noble cause. We express our gratitude for receiving an opportunity to serve the nation. We have a crystal clear vision of enlightening the student brain with sound and technology-rich academic curriculum. We pledge to ensure that the students will not only progress in their respective fields but will also become the responsible citizen by abiding to the rules and will live a disciplined life. Our college has state of the art facilities for teaching, research and development. The students who have passed out of our college have already proved their mettle in various fields. I personally appeal to all the students to make use of the facilities here and improve their skills so as to have a glorious career ahead.

ACADEMIC PATRONS



Dr. P. L. Naktode

Principal



Dr. Pragati Patil
Vice-Principal



Dr. Geeta Padole-Gaikwad
Director, Admission Cell

It is my privilege to warmly welcome you to the college, which is an autonomous institution, having a commitment towards quality education. We work on the principle of “Learn to Grow” With this very inspiring thought, Vidarbha Bahu Uddeshiya Shikshan Sanstha Nagpur has laid a foundation to provide education in the field of engineering to the students to enable them to become good practicing engineer, capable manager and above all a good human being to build a stronger, vibrant and skilled India. Our dream is that TGPCET should play a definite role in shaping the careers of tomorrow's leaders and developing individuals to have their impact on global development.

Looking at our track records, TGPCET has achieved many feathers in terms of consistent good results, placements and extracurricular activities too. We are continuously in the process of imparting quality education to our budding engineers. This journey is succeeding more gloriously year after year making our Engineers to rule the world. Success depends on opportunity. Try to get maximum from the available resources. I wish best luck in all your endeavors.

Welcome to Tulsiramji Gaikwad Patil College of Engineering and Technology (TGPCET) in Nagpur, Maharashtra, a leading educational institution. Inspired by the words of Shri APJ Abdul Kalam, **"Dreams are not those which we see while sleeping, but dreams are those which do not let us sleep,"** TGPCET strives for ambitious goals through knowledge acquisition, hard work, and perseverance. Our institution has quickly emerged as one of Maharashtra's premier technical education institutions. We emphasize academic excellence and technical skill development to meet industry demands while instilling values of integrity, morality, and sustainability.

At TGPCET, we leverage cutting-edge technology to foster an innovative learning environment, encouraging students to think critically and explore new ideas. Our students engage in national and international competitions to tackle real-world challenges, supported by faculty who stay updated with the latest technologies. Professional organizations like IEEE, CSI, ISTE, SAE-India, and SESI enhance skills through robust platforms. Beyond academics, we promote holistic development through sports, cultural activities, and social initiatives, nurturing responsible citizens. Join TGPCET to excel, innovate, and lead in a supportive environment where growth and transformation are limitless.

Tulsiramji Gaikwad–Patil College of Engineering and Technology is one of the finest college of Central India. The college has the privilege of having a healthy, harmonious ambience and rich values which have played pivotal role in shaping the future of innumerable students. The College offers a wide range of courses for disciplines encompassing Engineering and Technology, Computer Application and Business Administration. We believe in providing our students an environment, rich in knowledge and supportive for their extracurricular interests. We are firmly focused on earning for the college a national reputation for excellence, and developing it into a choice destination for engineering education in the country.

Committee Members of IE (I)



Prof. Ritesh Banpurkar
IE(I) Convenor
TGPCET Students' Chapter
The Institution of Engineers (India)

Faculty Advisor of Division



Prof. Praful Ghadge
IE(I) Coordinator & Faculty Advisor
TGPCET Students' Chapter
The Institution of Engineers (India)



Prof. Priyanka Kamble
IE(I) Co-Coordinator & Faculty Advisor
TGPCET Students' Chapter
The Institution of Engineers (India)



Prof. Sandip Thakre
Faculty Advisor
Department of Electronics
& Communication Engineering



Prof. Sonali Mohod
Faculty Advisor
Department of
Computer Science & Engineering



Prof. Aarti Sondawale
Faculty Advisor
Department of
Information Technology



Prof. Praful Ranadive
Faculty Advisor
Department of Mechanical Engineering

IE(I) Students Committee Session:2023-24

| Sr.No. | Name | Designation |
|--------|--|----------------|
| 1 | Mr. Rohit Bhoyar Student of EE | President |
| 2 | Mr.Disha Wath,Studentof BT | Vice-President |
| 3 | Ms.DevanshiShingare,StudentofDataScience | Secretary |
| 4 | Mr. Atharva Chitnis,StudentofECE | Treasurer |
| 5 | Mr.PratikTaywade,StudentofME | StudentMember |
| 6 | Mr.Navin Pathak, Student of CSE | StudentMember |
| 7 | Mr.Sanket Nagulwar,student ofCE | StudentMember |

About The Institution of Engineers(India):

The Institution of Engineers (India) [IEI] is the largest multi-disciplinary professional body of engineers, established in 1920 with its Headquarters located in Kolkata and incorporated under Royal Charter on 9th September, 1935 by the then His Majesty of King George V. The Royal Charter endowed the Institution with the responsibility to promote the general advancement of engineering amongst its members and persons attached to the Institution. After Independence, the Institution is a —Body Corporate protected under Article 372 of the Constitution of India. The Institution of Engineers (India) is administered by a National Council with the President as its Head.

IEI issues membership certification to the eligible engineers, technologists and scientists. Chartered \ Engineer, Professional Engineer and International Professional Engineer certifications in various disciplines of engineering are also issued by this Institution.

The State / Local Centres of IEI spread across the country do organise technical activities and provide platform to the stakeholders, technocrats, policy makers and others to share their expertise to benefit the engineering fraternity.

Tulsiramji Gaikwad-Patil College of Engineering and technology, Nagpur has started students' chapter of The Institution of Engineers (India) in the year 2010-11. The Institution of Engineers (India) is an established professional association of India for the advancement of technology. The students' chapters organizes various activities like Expert lectures, Seminars, Webinars, Workshops, International Conferences, Quiz competitions, Group Discussions, Symposia, etc. for the development of socio-technointellectual qualities in the students as well as for encouraging their quest for knowledge in a disciplined manner. Objective

Objective

- The objectives of IE(I) are to promote the advancement of Engineering and Technology and their applications.
- To facilitate the exchange of information and ideas on those subjects, amongst the members and the persons attached to the Institution.
- Faculty Members can participate in research activities organized by Institution of Engineers (India)
- To grow the interaction between students and industry people and increase the knowledge required by the students to face the challenges.

INSTITUTIONAL HIGHLIGHTS



Receiving Excellence Award by hands of Hon. Dr. Shashi Tharoor Former Union Minister Gov. of India



Dr. Sandeep Gaikwad felicitated in the "Guruvandana Satkar Samaroh" by Hon'ble Nitin Gadkari Minister of Road Transport and Highways of India



Best Student Chapter ISTE Maharashtra-Goa Section Award - 2023 hands of Dr. V.M. Mohitkar & Dr. K.V. Kale



Institute signing MoU with EduSkill



Education Leadership Award Presented by Dewang Mehta



Prof. Sandeep Gaikwad elected as SENATE Member RTMNU, Nagpur



ISTE Award for Best Knowledge Center (Library) Award 2022 by Hon'ble Pratapsinh Desai President, ISTE



Confronted Autonomous Status From AY 2021-22 & Accredited with NAAC A+ Grade (3.32 CGPA)



Mechanical & Electrical Engineering Receives NBA Accreditation





Receiving India's best
Engineering Institutes
2023 by
CAREERS 360



Receiving IEI Paryavaran
Saathi Award - 2023 by
IEI, Nagpur, Local Centre



Best Women Teaching
Faculty Award - 2022
by ISTE, Maharashtra
- Goa Section



Receiving Maximum number
of Domain Scholars



Receiving adjudged as the
Naturing Campus in Nagpur
in Patent & Idea Fest 2023
by the hands of
Shri. Devendra Fadanavis,
Deputy Chief Minister,
Maharashtra



Best ISTE Student Chapter
Award 2021



Best ISTE Faculty
Chapter Award 2019



TGPCET Ranked 192nd position
among 200 Engg. Institute in
the Country



Winners of
OUTSTANDING ENGINEERING
INSTITUTE
Presented by ABP NEWS



Students Achievements / Awards

1st Prize winners at Workshop on Energy Conservation organized by IEI Nagpur Local Centre



Ms. Bhagyashree Gurbhele
receiving the award from the Guest



Ms. Pranju Upare receiving
the award from the Guest



Mr. Sharad Dhotre & group receiving
the 1st Prize in Poster Competition Category



Ms. Lipakshi Banpurkar receiving the
2nd Prize in Python Champ at National Level Techfest
“TECHNORION 2024”

Prize winners at IEI third regional Conclave of Students Chapter



3rd prize Winner Project/Model Exhibition
competition in IEI 3rd Regional Conclave on
“Cyber Security & Digital Forensics”



Prize winners with Faculty members

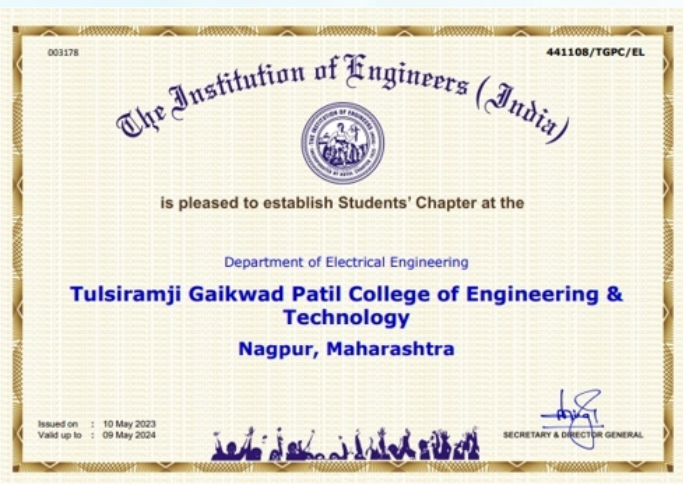
IE(I) Students' Chapter Certificate



Department of Civil Engineering



Department of Civil Aeronautical



Department of Electrical Engineering

Department of Biotechnology

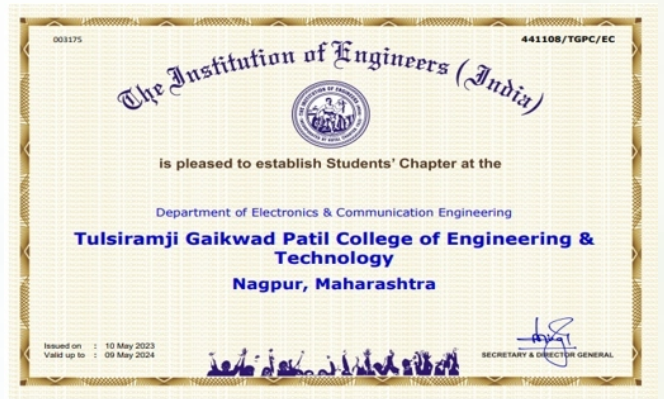


IE(I) Students' Chapter Certificate



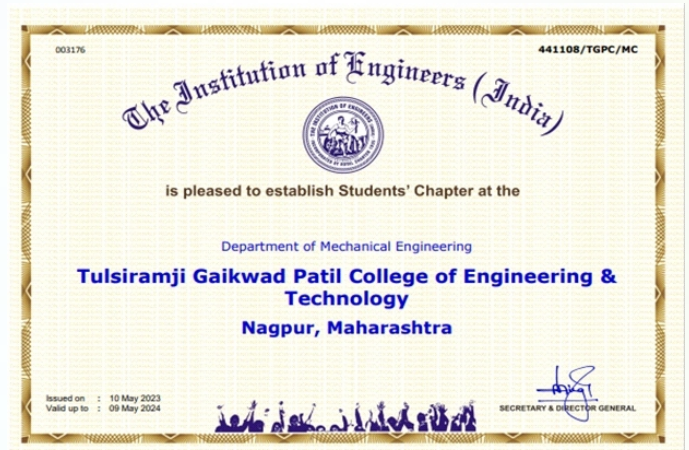
Department of Computer Science & Engineering

Department of Electronics & Communication Engineering



Department of Information Technology

Department of Mechanical Engineering



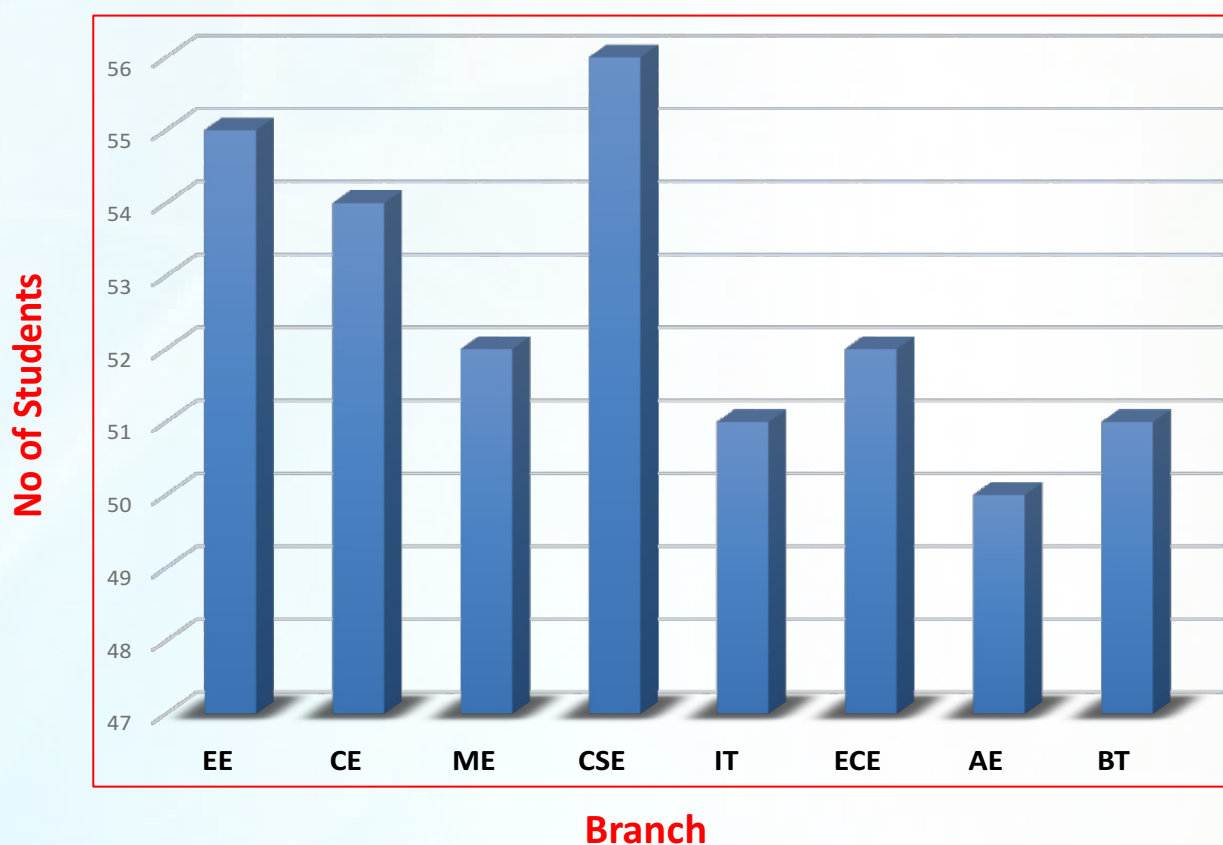
Members of IE(I) Chapter (Faculty Members)

| Sr. No. | Name of Faculty | Designation | Member Code |
|---------|----------------------------|-------------|--------------|
| 1 | Dr. Sandeep Gaikwad | FIE | A 528868-2 |
| 2 | Dr. Sanjay Asutkar | FIE | F-124538-0 |
| 3 | Prof. Anup Gade | AM to M | M-1674573 |
| 4 | Prof. Jayant Adhikari | AM | AM1907738 |
| 5 | Prof. Abhimanyu Dutonde | AM | AM-1908742 |
| 6 | Prof. Deepak Bhoyar | AM | AM1908335 |
| 7 | Prof. Tapas Pramanik | AM | AM1908629 |
| 8 | Prof. Ganesh Wakte | AM | AM1907959 |
| 9 | Prof. Vaishali Malekar | AM | AM1908055 |
| 10 | Prof. Pradnya Parate | AM | AM1908130 |
| 11 | Prof. Chetan Jambhulkar | AM | AM 1907975 |
| 12 | Prof. Ashwini Admane | AM | AM1908424 |
| 13 | Prof. Vidyadhar Kshirsagar | AM | AM1908319 |
| 14 | Prof. Sandeep Barkamkar | AM | AM1908635 |
| 15 | Prof. Ravindra Shende | AM | AM1908675 |
| 16 | Prof. Yogesh Ramteke | AM | AM1908688 |
| 17 | Prof. Ritesh Banpurkar | AM | AM1908696 |
| 18 | Prof. Deepali Bhoyar | AM | AM1907924 |
| 19 | Prof. Gaurav Nagdeve | AM | AM1907878 |
| 20 | Prof. Vivek Patil | AM | AM1908068 |
| 21 | Prof. Sanjay Bhadke | AM | AM-1513683 |
| 22 | Prof. Vishwajeet Ambade | AM | AM-1513772 |
| 23 | Dr. Vijay Talodikar | AM | AM-1513551 |
| 24 | Dr. Amey Khedikar | AM | AM-1516518 |
| 25 | Prof. Jayant Rohankar | AM | AM-158355-5 |
| 26 | Prof. Rohini Pochhi | AM | AM-1583359-2 |
| 27 | Prof. Abhay Rewatkar | AM | AM-151653-4 |
| 28 | Dr. Pratik Ghutke | AM | AM-1678127 |
| 29 | Dr. Shubhangi Gondane | AM | AM-158374-6 |
| 30 | Prof. Praful Ghadge | AM | AM159602-3 |
| 31 | Dr. Aasif M Baig | AM | AM1740405 |
| 32 | Mr. Rahul Dhutur | AM | AM 158984-1 |
| 33 | Mr. Sandeep Thakre | AM | AM-158982-5 |
| 34 | Prof. Darshika Khawase | AM | AM-151377-2 |
| 35 | Prof. Priyanka Petkar | AM | AM 1678151 |

Members of IE(I) Students' Chapter

Student Members for IE(I) Students' Chapter (Branchwise)

| Sr. No | Branch | No. of Students |
|-------------|--------|-----------------|
| 1 | EE | 55 |
| 2 | CE | 54 |
| 3 | ME | 52 |
| 4 | CSE | 56 |
| 5 | IT | 51 |
| 6 | ECE | 52 |
| 7 | AE | 50 |
| 8 | BT | 51 |
| Grand Total | | 421 |



Activities Conducted under IE(I)

Centralized Events

| Sr. No. | Title of Activity | Type of Activity |
|---------|---|---|
| 1 | Two Days Project Exhibition at 38th National Convention on “Emerging Trends and Developments on Smart Manufacturing, Renewable Energy and Mechanical System Diagnostics/Design” | Project Exhibition |
| 2 | Celebration of Engineers Day & Project Exhibition | Project Exhibition |
| 3 | Energy Conservation workshop at IEI Nagpur Local Centre | Poster Presentation Competition |
| 4 | Third regional conclave of student’s chapter (WR) on “Cyber security and Digital Forensics” | Poster Presentation & Project Competition |
| 5 | workshop on “Experimental learning for students using case study Approach” | Workshop |

Activities Conducted under IE(I)

Two Days Exhibition at 38th National Convention on “Emerging Trends and Developments on Smart Manufacturing, Renewable Energy and Mechanical System Diagnostics/Design”

Objective

To aware students about the recent advances in new technologies and provide platform to the students for getting practical exposure.

About Event

The Institution of Engineers IE(I) Cell of Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur (An Autonomous Institution Affiliated to RTM Nagpur University) has participated in exhibition organized on 8th September 2023 (Day-1) in 38th National Convention of Mechanical Engineers(NCMC) & National Seminar on —Emerging Trends and Development on Smart Manufacturing, Renewable Energy, System Diagnostics/design at VNIT organized by The Institution of Engineers (India) Nagpur Local Centre in Association with Visvesvaraya National Institute of Technology, Nagpur

Outcome

All the students would able to apply appropriate techniques to assess societal and safety issues and ethically understand the impact of the solution in environmental context.



**Visit of Dr. P.M. Padole, Director
VNIT Nagpur to institutes exhibition stall**



**Visit of Dr. G.K. Awari ,
Organizing Secretary of 38th NCMC with other delegates**

Celebration of Engineers Day& Project Exhibition

Objective

To encourage innovative thinking and problem-solving among participants& showcase the project work

About Event

The Engineers Day is celebrated on 15th of September 2023 under the banner of IEI in which Dr. J.F. Agrawal, Secretary IEI Nagpur Local Centre was invited as a chief Guest for the function. Show casing the student's projects was the main objective and thereby enhancing the project quality as per the need of industry, with this in mind the IEI cell of institute had initiated the concept of project presentation. Dr. J.F. Agrawal addressed the session with very knowledgeable insights and well encouraging words that gave an exposure to students how to learn outcomes of the projects and striving hard to reach end user and how projects should impact the society

Outcome

Participants and visitors gain new insights and knowledge about various projects and innovations.



Dr. J. F. Agrawal Assessing the students Project during project exhibition on Engineers Day

Energy Conservation workshop at IEI Nagpur Local Centre

Objective

To Encourage participants to express their creativity and artistic skills.

About Event

Two groups of third semester students of Electrical Engineering department Miss. Chahul Tembhare & group and Miss. Pranju Upare & group combinedly bagged 1st prize in poster competition in —One day workshop on Energy conservation held at Institution of Engineers (India) Nagpur local centre. More than 40 students from Electrical Engineering, Mechanical Engineering and Electronics & communication Engineering department have participated in the event.

Outcome

Students have got an educational experience by participating into the workshop based on research and innovative ideas by presenting an information on a given topic.



Faculty with participants during workshop on Energy Conservation



Judgement of participants during workshop on Energy Conservation

Third regional conclave of student's chapter (WR) on "Cyber security and Digital Forensics"

Objective

To give an opportunity to the students to highlight their creativity, problem-solving skills, and technical expertise and to demonstrate the practical application of their ideas.

About Event

Students from Tulsiramji Gaikwad Patil College of Engineering & Technology, Mohgaon Nagpur under the banner of IE(I) has participated in third regional conclave of student's chapter (WR) on —Cyber security and Digital Forensics organized by The Institution of Engineers (India) and hosted by GH Rasoni Institute of Engineering and Business Management, Jalgaon in collaboration with Maharashtra state Centre, IEI & Nashik Local Centre, IEI.

They emerged in a victorious competition by securing the first prize by Sharad Dhotre & group from IT department in the poster preparation competition and 2nd Prize in Python Champ and third prize in Project/Model Exhibition competition by Lipakshi Banpurkar & Saurabh Satpute from computer science & Engineering department.

Outcome

Students were able to understand the various ideas through the projects in exhibition with industry needs, students understand how their work impacts society and end-users



3rd prize Winner Project/Model Exhibition competition in IEI 3rd Regional Conclave on "Cyber Security & Digital Forensics"



Prize winners with Faculty members

Students Achievements / Awards

workshop on “Experimental learning for students using case study Approach”



Students of the institute with faculties during the workshop



Mr. Pawan Rinait receiving the certificate for the workshop on
“Experimental based learning using case study Approach”

Events Conducted Under IE (I) Students' Chapter

(Expert Lecture / Industrial Visit / Workshops)

| Sr. No. | Title of Activity | Type of Activity |
|---------|---|------------------|
| 1 | Industrial Visit at Mahindra & Mahindra, Nagpur | Industrial Visit |
| 2 | Industrial Visit at Saini Electrical & Engg. works. Nagpur | Expert Lecture |
| 3 | Guest Lecture on "Experimental Learning for Students using Case Study approach" | Expert Lecture |
| 4 | Hands On Workshop on "Aurdino Programming" | Workshop |
| 5 | Industrial Visit at "NU Intelligence Pvt. Ltd. Nagpur" | Industrial Visit |
| 6 | Guest Lecture on "Computer Network and NS2 Software's" | Expert Lecture |
| 7 | Guest Lecture on "Generative AI" | Expert Lecture |
| 8 | Two Days Workshop on "Python For AI" | Workshop |
| 9 | Guest lecture on "Python and AIML Technologies." | Expert Lecture |
| 10 | Guest lecture on "MERN Stack development" | Expert Lecture |
| 11 | Guest lecture on "Data Analysis & Power BI" | Expert Lecture |
| 12 | "Two Days Hands-on Workshop on Real Time Industrial Oracle Database Administration" | Workshop |
| 13 | Two days workshop of 'Hands on training on BMW Engine | Workshop |
| 14 | Two days workshop on Hands on training on CREO and Ansys | Workshop |
| 15 | Industrial Visit at Indo Rama Synthetics India Limited | Industrial Visit |
| 16 | Industrial Visit at Br. Sheshrao Wankhede Shetkari Soot Girmi Ltd, Nagpur | Industrial Visit |
| 17 | Industrial Visit at RCOEM - Tata Technologies Ltd. CIIT Nagpur | Industrial Visit |
| 18 | 2-days Workshop on "Technical Book Writing" | Workshop |
| 19 | 3-days Workshop on "Total Station" | Workshop |

| | | |
|-----------|--|------------------|
| 20 | “Site visit at Bhandewadi Sewage Treatment Plant” | Industrial Visit |
| 21 | “Site visit at Vidarbha RMC plant, Butibori” | Industrial Visit |
| 22 | Industrial Visit at “Metro Bhavan, Nagpur” | Industrial Visit |
| 23 | Two days hands on workshop on Internet of Things (IOT) | Workshop |
| 24 | Industrial Visit at “Maharashtra Remote Sensing Application Center, Nagpur” | Industrial Visit |
| 25 | Industrial Visit at “HORIBA India Pvt. Ltd.” | Industrial Visit |
| 26 | Industrial Visit at “Air Traffic Control (ATC) Airport Authority of India, Nagpur” | Industrial Visit |
| 27 | Expert Lecture on “Industrial Automation” | Expert Lecture |

Industrial Visit at Mahindra & Mahindra, Nagpur

Objective

To educate students on industry practices, technical skills, and career opportunities in automobile manufacturing enhancing their understanding and preparation for careers in manufacturing industries.

About Event

Department of Electrical Engineering of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur (TGPCET) has organized an Industrial Visit at Mahindra & Mahindra Ltd. Hingna Road, Nagpur on 1st July 2023. Of all the participated students of Second year of engineering. The visit was coordinated by Mr. Suhas Patil On the topic —Mahindra Tractor Manufacturing. He briefed students about Industry and Industry revolution.. The demand for Tractor will be led by industrial consumers. Further, he gave the guidance that Importance of Tractor in agricultural field for

Outcome

All the students have got opportunity to interact with the —On Field Engineers and different sections of Mahindra plant and they got the platform of industrial exposure with help of which they get aware about the latest tools and technology used in the industry.



Faculty Co-ordinator with students during the industrial visit at Mahindra & Mahindra

Industrial Visit at Saini Electrical & Engg. works. Nagpur

Objective

To enhance the technical knowledge domain and to understand Industrial Safety Rules by the students

About Event

Department of Electrical Engineering of Tulsiramji Gaikwad Patil College of Engineering and Technology, Nagpur (TGPCET) have organized a Industrial Visit at Saini Electrical & Engineering works on 8th Dec 2023. Total 75 Students of third semester have come for the visit. The visit was coordinated by Mr. Gurav Sambhe, Plant Engineer who has provided the detail insights about the company and its manufacturing processes He briefed students about Industry and Industry revolution with Government of India driving focus on domestic manufacturing that Saini's portfolio includes powertrain technology for electric vehicles in passenger cars, sports utility vehicles (SUVs), and light commercial vehicles (LCVs).

Outcome

Students have got awareness about the methodology of erection & commissioning of motorized bogie overhauling & motor suspension unit.



Industrial Visit at Saini Electrical Works



Students during the industrial visit getting information about the manufacturing process

Guest Lecture on “Experimental Learning for Students using Case Study approach”

Objective

To enhance participants' understanding of case study-based learning through structured approaches, including selecting case studies, defining survey forms, and preparing detailed reports, enriching their learning experiences with practical applications,

About the Program

The guest lecture was organized to make students aware and get involved in Case study-based problem-solving. The Experimental learning approach is designed by IIT, Bombay, and in association with MSFDA they are conducting training of students from multidisciplinary branches. The Expert Ms. Rijyuta Kaabaadee, who is Project Research Assistant, IIT, Bombay. The expert explained about selection of case study, what could be the possible topics of case study that a batch of students can study. How to prepare survey form for case study and how to prepare report based on case study.

Outcome

Improved participants' understanding of how case study-based learning can be used to enrich their educational experiences. Provided guidance on selecting relevant and impactful case studies.



Expert Ms. Rijyuta Kaabaadee delivering the session during Guest lecture on experimental Learning

Hands On Workshop on “Aurdino Programming”

Objective

To enhance students' skills in automation systems through practical Arduino programming sessions and certificate distribution.

About Event The two days workshop on “Arduino Programming” was organized by electrical department for fourth & sixth semester students. The workshop was coordinated by Mr. Chetan Jambhulkar, Asst. Professor, Dept. of EE. The session experts of the workshop were Mrs. Neema Ukhani, Director, NU Intelligence Pvt. Ltd., Nagpur. & Ms. Swapnali Tagde, Arduino Mentor During the workshop, the students have gained knowledge about Arduino and Arduino Programming. The workshop was ended up with certificate distribution. Hence, students got also practical exposure in regard of Arduino Programming. The main goal of this workshop was to convey advancement in automation system that will enhance their domain knowledge.

Outcome

1. Practical Skills: Students acquired practical skills in Arduino programming and its applications in automation.
2. Expert Insights: Guidance from Mrs. Neema Ukani and Ms. Swapnali Tagde enhanced understanding of Arduino systems



Guest speaker & Ms. Swapnali Tagde delivering the session during two days workshop on “Arduino Programming”

Industrial Visit at “NU Intelligence Pvt. Ltd, Nagpur”

Objective

To understand the integration of IoT devices and sensors for industrial data monitoring.

About the Program

The program was organized as an industrial visit to NU Intelligence Pvt. Ltd., a renowned technology company specializing in Industrial Robotics, Automation, Embedded Systems, and IoT. This visit served as an opportunity for students to witness and interact with cutting-edge technologies in an industrial setting, gaining valuable insights into real-world applications.

The program included the following key activities:

- Visiting the Industrial Robotics and Automation Lab to observe the operation of robotic systems, including robotic arms and AGVs.
- Touring the Embedded and IoT Lab to understand the integration of IoT devices and sensors for industrial data monitoring.
- Participating in hands-on sessions where students had the opportunity to operate robotic arms and work on a simple IoT project.

Outcome

Students were able to interact with experts from NU Intelligence Pvt. Ltd. & shared their experiences and knowledge.



Industrial Visit at “NU Intelligence Pvt. Ltd. Nagpur”

Guest Lecture on “Computer Network and NS2 Software’s”

Objective

To Provide students with practical exposure to configuring network simulations using NS2.

About the Program

The aim of the guest lecture was to provide students with comprehensive insights into the field of computer networks and NS2 software. It aimed to bridge the gap between theoretical knowledge and practical application, empowering students to enhance their understanding of networking principles and simulation techniques.

The primary objectives of the program were to:

- Familiarize students with the fundamental concepts of computer networks.
- Introduce students to the NS2 software and its applications in network simulation.
- Foster an interactive learning environment conducive to knowledge exchange and clarification of doubts.

Outcome

Students were able to understand the comprehensive insights into the field of computer networks and NS2 software.



**Expert Mr. Mayur Kirtane delivering the Guest Lecture
on “Computer Network and NS2 Software’s”**

Guest Lecture on “Generative AI”

Objective

To provide students with insights into advanced AI concepts, particularly focusing on Generative AI techniques, and enhance their understanding and preparation for careers in data science by bridging the gap between theory and practical application in artificial intelligence.

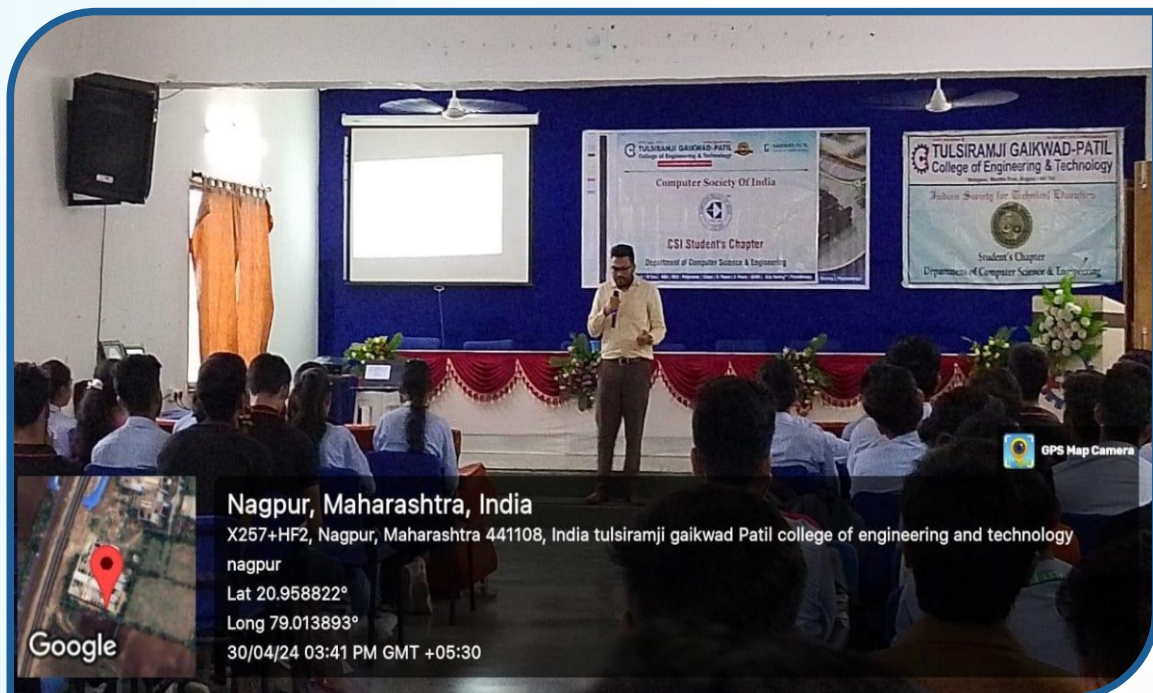
About the Program

The Department of Computer Science and Engineering successfully organized a guest lecture on Generative AI. Mr. Aniruddha Kalbande, the esteemed Founder of Fire blazer Pvt. Ltd., was invited to share his expertise with the students. The lecture aimed to bridge the gap between theoretical knowledge and practical applications in the field of artificial intelligence.

- To acquaint students with the principles and applications of Generative AI.
- To inspire students to explore career opportunities in data science.
- To facilitate interaction between students and industry experts.
- To enhance students' understanding of emerging technologies in the field of computer science.
- Enhanced Understanding: Students gained insights into the principles and applications of Generative AI.
- Skill Development: Attendees acquired practical knowledge and problem-solving skills in the field of data science.

Outcome

Participants gained a comprehensive understanding of Generative AI techniques and their applications. The lecture provided valuable insights and knowledge to help students prepare for careers in data science and artificial intelligence.



Expert Mr. Aniruddha Kalbande delivering the Guest Lecture on “Generative AI”

Two Days Workshop on “Python for AI”

Objective

To give basic Hands-on exercises & training to students so as they can execute basic Python programs.

About the Program

The Python for AI workshop, organized under the IEI and CSI student chapters in collaboration with MSIT Services-CMS Nagpur, provided participants with a comprehensive learning experience. It equipped them with valuable skills and knowledge essential for AI development, reaffirming the commitment of the organizing bodies to fostering innovation and excellence in technology education.

● Day 1:

- Introduction to Python: History, applications, and importance.
- Setting up Python environment: Installation and IDE setup.
- Basic Python commands and fundamentals: Syntax, variables, data types, operators, and control structures.
- Hands-on exercises: Writing and executing basic Python programs.

● Day 2:

- Introduction to Artificial Intelligence: Definition, history, types, applications, and importance.
- Creating AI voice assistants: Understanding Natural Language Processing (NLP), Text-to-Speech (TTS), and Speech-to-Text (STT) technologies.
- Building a simple voice assistant using Python: Integrating TTS and STT libraries, implementing basic commands and responses, testing, and refining.

Outcome

Students were able to get comprehensive learning experience in the field of Python Programming.



Hands on training of students during the workshop on “Python for AI”

Guest lecture on “Python and AIML Technologies”

Objective

To give Hands-on exercises & training to the students on Python & AIML programs.

About the Program

Department of Information Technology had organized a guest lecture on “Python and AIML Technologies.” under IEI (Institute of Engineer’s, India) and the expert for the session was Mr. Rushikesh Moon, Industrial expert and trainer and Ms. Shruti Raut, Data Analytics and trainer, Coder Fuel Infotech , Pvt. Ltd., Nagpur. The purpose is to provide students with the idea about industry working culture and what are the Recent Trends and Carrier Opportunities in IT Industry. They listed out the basic skills like Communication skills, and important key points like knowledge of the python, application of the knowledge , Information Literacy, Analytical & Creative thinking, Multi-disciplinary exposure, Updated with Latest in Technology, Ability to Lead, good in programming. Students understood through this session about to work in IT industries what abilities are necessary to be acquired and modes to develop ML models.

Outcome

Students were engaged in hands-on sessions and gained conceptual knowledge about various AI/ML techniques and its applications.



Expert Mr. Rushikesh Moon Speaker and students during the guest lecture on “Python and AIML”

Guest lecture on “MERN Stack development”

Objective

To provide insights into industry working culture, recent trends, and technical skills required for building web applications using MERN Stack technologies.

About the Program

Department of Information Technology had organized a guest lecture on “MERN Stack development” under IEI (Institute of Engineer’s, India) and the expert for the session was Mr. Manis Sinha, Co-founder and CTO, The Space Element Pvt LTD, Nagpur. The expert of the session was Mr. Manish Sinha, interact with all students. They discussed reasons of Recession and unemployment, where students lacking that prevent getting the right jobs. They listed out the basic skills like Communication skills, and important key points like knowledge of the MERN Stack, Updated with Latest in Technology, Ability to Lead, good in programming. Students understood through this session about to work in IT industries what abilities are necessary to be acquired and modes to develop technical skills in building web applications using these technologies and Carrier Opportunities in IT Industry.

Outcome

Students have gained comprehensive knowledge about MERN Stack technologies and their use in web application development. The session provided detail insights into industry working culture and recent trends in web development.



Faculty & students with Expert during the guest lecture on “MERN Stack development”

Guest lecture on “Data Analysis & Power BI”

Objective

To aware the students about recent Trends and technical skills in building web applications using these technologies and Carrier Opportunities in IT Industry.

About the Program

Department of Information Technology had organized a guest lecture on “Data Analysis & Power BI” under IEI (Institute of Engineer’s, India) and the expert for the session was Ms. Pratiksha Meshram, Senior Data Analyst, The SS Infotech Pvt LTD, Nagpur. The purpose is to provide students with the idea about industry working culture and what are the Recent Trends and technical skills in building web applications using these technologies and Carrier Opportunities in IT Industry. Ability to Lead, good in programming. Students understood through this session about to work in IT industries what abilities are necessary to be acquired and modes to develop technical skills in building web applications using these technologies and Carrier Opportunities in IT Industry.

Outcome

Students have learned how to use Power BI to connect to various data sources, transform data, and create meaningful visualizations and reports.



Faculty & students with the Expert speaker during guest lecture on “Data Analysis & Power BI”.

Two Days Hands-on Workshop on Real Time Industrial Oracle Database Administration”

Objective

To provide students with practical knowledge and hands-on experience in real-time industrial Oracle database administration

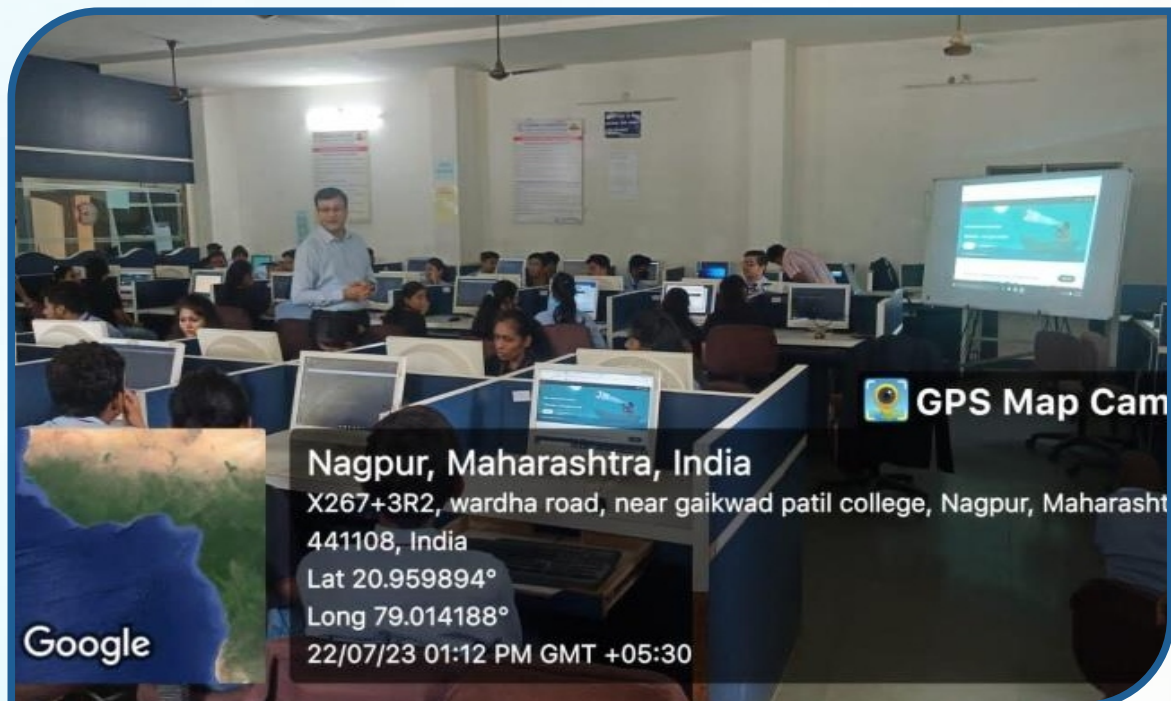
About the Program

TULSIRAMJI GAIKWAD PATIL College of Engineering and Technology is always striving hard for academic excellence. In this regard, on behalf of TGPCET and Department of Information Technology organized “Two Days Hands-on Workshop on Real Time Industrial Oracle Database Administration”. Expert faculty name is Mr. Nikhil Agrawal, He is Project Manager, Perficient Pvt. Ltd. Nagpur.

A database administrator (DBA) is the information technician responsible for directing and performing all activities related to maintaining a successful database environment. The DBA is responsible for understanding and managing the overall database environment. By developing and implementing a strategic blueprint to follow when deploying databases within their organization, DBAs are instrumental in the ongoing efficacy of applications that rely on databases for data storage and access. Without the DBA's oversight, application and system outages, downtime, and slowdowns will inevitably occur.

Outcomes

1. Hands-On Experience: Students engaged in practical sessions on Oracle database administration.
2. Expert Guidance: Benefited from Mr. Nikhil Agrawal's expertise and insights into real-time industrial applications.
3. Enhanced Skills: Gained valuable skills in database management and implementation relevant to the IT industry.



Expert Mr. Nikhil Agrawal, “Two Days Hands-on Workshop on
Real Time Industrial Oracle Database Administration”

Two days workshop of 'Hands on training on BMW Engine'

Objective

To provide aspiring BMW technicians with the skills and knowledge needed to work on BMW vehicles.

About the Event

The Mechanical department organized Two days' workshop of "Hands on Training on BMW Engine" in Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur in offline mode. The Institute is pleased to accept the opportunity given by SAE, ISTE and IE(I) local Nagpur to organize the said workshop. The workshop was organized from 28-07-2023 to 29-07-2023 as submitted in the proposal by abiding all the guidelines given by SAE, ISTE and IE(I) local Nagpur.

Two days' workshop of "Hands on Training on BMW Engine" was organized at Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur campus in Online Mode. The workshop was organized under Mechanical Engineering Department. The main aim of the workshop was to improve ISTE members in the participant's Institute and Awareness about BMW Engine and its benefits to Higher Education Institute (HEIs). The other objective of the workshop was to identify best practices that will help in enhancing knowledge of BMW Engine and use of knowledge about engine for educational purpose.

Outcome

Students have gain extensive hands-on experience with BMW engines, learning to diagnose, repair, and maintain various engine components and systems.



Training of students during the two days workshop of 'Hands on training on BMW Engine'

Two days workshop on Hands on training on CREO and Ansys

Objective

To provide participants with a comprehensive understanding of CREO and Ansys, including their interfaces, functionalities, and applications

About the Event

Workshop can be an excellent way to "try out" a certain career and in the view of that the Department of Mechanical Engineering of Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) has conducted workshop on 4th and 5th August, 2023. Workshop offer students a hands-on opportunity to work in their desired field. They learn how their course of study applies to the real world and build a valuable experience that makes them stronger candidates for jobs after graduation.

The workshop has been started with the welcoming of the guest Mr. Piyush Piprikar, Senior Trainer, CADD Centre, Nagpur. The coordinator of the program has given an introduction about Mr. Piyush Piprikar and then Mr. Piyush started his session on Hands on Training on CREO and ANSYS.

Outcome

Students have gained practical skills in using CREO for 3D modeling and Ansys for simulation and analysis, making them proficient in these tools.



Students & faculties during two days workshop on Hands on training on CREO and Ansys

Industrial Visit at Indo Rama Synthetics India Limited

Objective

To provide participants with a comprehensive understanding of manufacturing process of synthetics.

About the Program

Industrial Visit was organized for third Semester students of Mechanical Engineering of Tulsiramji Gaikwad Patil College of Engineering and Technology Nagpur at Indo-Rama Synthetics in Industrial Area Butibori (dated 02-12-2023)

Outcome

Students witnessed various raw material namely -

- a. Standard bottle grade with various IV, reheat and non-reheat process.
- b. Special grades such as for refillable, hot fillable and barrier bottles.
- c. Oxyclear range of resin and master batches for oxygen and CO2 barrier applications (NA and SA)
- d. Low IV grades for injection molding
- e. High IV grades for large containers, strapping, tire cord and C-PET



Students during the industrial Visit at Indo Rama Synthetics India Limited

Industrial Visit at Br. Sheshrao Wankhede Shetkari Soot Girni Ltd

Objective

To make the students aware about yarn conform to the highest quality standards with respect to Uster Evenness, Neps and Classmate Faults

About the Program

It is observed by the faculty co-ordinator that the students utilized the travel time to reach the destination in searching the details of the event and know about the history of the place. Students of Second year get highly motivated after the session of visit in soot girni and find out the session very useful for their future career perspective. Performance of yarn during Warping, Weaving & knitting is of paramount importance and care is taken in achieving industries best performance. Product is checked and Re-Checked at every stage of production process to ensure Fault-Free product performance.

Outcome

This trip brush up the knowledge of students and also know that what industry is expecting from future engineers.



Industrial Visit at Br. Sheshrao Wankhede Shetkari Soot Girni Ltd, Nagpur

Industrial Visit at RCOEM - Tata Technologies Ltd. CIIT Nagpur

Objective

To enhance students' professional skills by providing practical exposure to advanced manufacturing and automation technologies, including robotics, CNC machines, and various engineering systems.

About the Program

Department of Mechanical Engineering has organized industrial visit at RCOEM-TATA CIIT With modern equipment's and the state-of art technologies, ensures employability of the trained-students industry specific domain. The technical facility and skill-development training comprises of most of the perquisites that are essentially required for under graduate students for employability and placement in multi-national companies.

Students of second year and third year get highly motivated after the session of visit in RCOEM - Tata Technologies Ltd. CIIT Nagpur and find out the session very useful for their future career perspective. Students got aware about RCOEM CIIT Center. CIIT provided practical exposure on following machine

1. Arc Welding Robot
2. Pick -n-Place Robot
3. CNC-VMC Machine
4. Manufacturing Execution System
5. 3D Printing & 3D Scanning.
6. Machine Learning (IOT)
7. MSC Mastram
8. MSC Patran
9. Parabolic Collector.
10. Professionals software.

Students understand fundamental components of automation and students analyses concentrated Solar Thermal facility at RCOEM Nagpur.

Outcome

Visit Provided students with hands-on experience with cutting-edge manufacturing and automation technologies. This Offered insights into practical applications and the integration of advanced technologies in industrial settings.



Industrial Visit at RCOEM - Tata Technologies Ltd. CIIT Nagpur

“Three Days Workshop on “Total Station”

Objective

To provide practical training and hands-on experience in using Total Stations for accurate surveying and coordinate location

About the Program

Department of Civil Engineering in association with Institution of Engineers (India) have organized Three Days Workshop on “Total Station” for 2ndyear/4th semester Autonomous Civil Engineering student on dated 18th,19th and 20th March 2024 at Football Ground TGPCET Campus Nagpur. Students will learn about total station (TS) and operate the instrument (TS) and to locate the coordinates of any point. Various points are measured coordinate of building, road and ground. The horizontal distance measured by TS with compare to tape and find the accurate distance of area of field

Outcomes

1. Practical Training: Students gained hands-on experience in operating Total Stations.
2. Technical Knowledge: Enhanced understanding of accurate surveying techniques and coordinate location.
3. Application Skills: Acquired skills in using advanced surveying equipment for real-world applications.



Guest with students during the “Three Days Workshop on “Total Station”

Site visit at Bhandewadi Sewage Treatment Plant

Objective

To give practical learning opportunities and bridge the gap between theoretical knowledge and real-world Implementation

About the Program

Department of Civil Engineering under ARTEX Forum in association with Indian Engineering Institution (IEI) have organized Site visit for 5th and 7th semester Civil Engineering student on date 14th August 2023 at Bhandewadi Sewage Treatment Plant Nagpur (200 MLD). The visit provides students with practical learning opportunities and bridge the gap between theoretical knowledge and real-world implementation. Students observed the equipment and processes used in sewage treatment, gaining insights into techniques used.

Outcome

Students were able to understand the equipment and processes used in sewage treatment, gaining insights into techniques used.



“Site visit at Bhandewadi Sewage Treatment Plant”

“Site visit at Vidarbha RMC plant, Butibori”

Objective

To give the practical learning opportunities and bridge the gap between theoretical knowledge and real-world implementation.

About the Program

Department of Civil Engineering in association with Indian Engineering Institution (IEI), have organized a site visit for 4th, 6th and 8th semester Civil Engineering student on 17th February, 2024 at Vidarbha RMC plant, Butibori. The visit provided students with practical learning opportunities and bridge the gap between theoretical knowledge and real-world implementation. Students observed the equipment and process used in production of concrete, gaining insights into technique/ software used.

Outcome

Students were able to understand about equipment and process used in production of concrete, gaining insights into technique/ software used.



“Site visit at Vidarbha RMC plant, Butibori”

Industrial Visit : “Metro Bhavan, Nagpur”

Objective

To make students aware about Infrastructure and technical functionality of Metro Bhavan

About the Program

Department of Electronics and Communication of Tulsiramji Gaikwad Patil College of Engineering and Technology, students visited Metro Bhavan, VIP Road Nagpur. Maha Metro PR Manager Akhilesh Halve and Mrs Rashmi Madankar gave detailed information regarding Infrastructure and technical functionality of Metro Bhavan . 47 students of fourth and seventh semester Electronics and Communication Engineering attended this industrial visit on Friday 7 July 2023. Employees discussed about Double Decker Bridge, Manish Nagar Underpass, Four level Transportation Corridor and metro stations locations and Facilities provided. Maha metro is the first green metro project, maximum tasks use solar energy as power source

Outcome

Students were able to understand about the Double Decker Bridge, Manish Nagar Underpass, Four level Transportation Corridor and metro stations locations and Facilities



Faculty & students during the Industrial Visit : “Metro Bhavan, Nagpur”

Two days hands on workshop on Internet of Things (IOT)

Objective

To provide the students with comprehensive knowledge and practical skills on integrating Internet of Things (IoT) technologies with renewable energy systems.

About the Program

The Department of Electronics & Communication Engineering, Tulsiramji Gaikwad Patil College of Engineering and Technology organized two days Workshop on “INTERNET OF THINGS” on 21/07/2023 and 22/07/2023. Workshop began with traditional lamp lightening and a prayer and Felicitation giving sapling of Guests Mrs. Neema Ukani Director, NU Intelligence Pvt. Ltd. Nagpur, Mr. Sandeep Sonaskar, Expert in IOT & Embedded System and Ms. Swapnali Tagde, Expert in IoT & Embedded System Mrs Neema cleared all the doubts regarding IoT its advance courses and opportunities for research in the field of IoT. This session was very interactive with students trying out a diverse set of applications in IoT. The session ended with distribution of Certificate to participated students.

Outcome

Participants have gained a comprehensive understanding of IoT technologies and their integration with renewable energy systems



Two days hands on workshop on Internet of Things (IOT)

Industrial Visit: “Maharashtra Remote Sensing Application Center, Nagpur”

Objective

To make students aware about utilizing remote sensing techniques to survey and map natural resources.

About the Program

Maharashtra Remote Sensing Application Centre (MRSAC), It was established in September 1988 at Nagpur as an autonomous Organization under the administrative control of Department of Planning, Government of Maharashtra. Today, MRSAC is one of the well-established centres. With full support of Govt. of Maharashtra, MRSAC is recognized as a premier institution to offer benefits of Remote Sensing and Geographic Information System (GIS) Technologies to the State. With its experience about two and a half decades MRSAC has promoted technology to Government departments and academic institutions for various applications. Centre is contributing significantly in generating voluminous spatial databases on various themes from urban, industries, ecology and forest, rivers, drainages, waterbodies, agriculture, geology, geomorphology etc. for Maharashtra, from small scale through to very large scale. MRSAC guides users and user departments, with geospatial solution through the use of remote sensing datasets and GIS, and decision support system

Outcome

Students were able to understand about spatial databases on various themes from urban, industries, ecology and forest, rivers, drainages, waterbodies, agriculture



Faculty & students during the Industrial Visit: “Maharashtra Remote Sensing Application Center, Nagpur”

Industrial Visit: “HORIBA India Pvt. Ltd.”

Objective

To Provide insights into the day-to-day operations and workflows within HORIBA’s various departments, such as automotive, medical, and environmental sectors

About the Program

Department of Electronics and Communication of Tulsiramji Gaikwad Patil College of Engineering and Technology, students visited HORIBA India Pvt. Ltd., Mr. Aniket Khandaitkar and his team enlightened our students about HORIBA's history, vision, mission, and operations and gave detailed information regarding Infrastructure, manufacturing process, automation process in production and technical functionality of HORIBA India Pvt. Ltd. 33 students of third semester(2nd year) Electronics and Communication Engineering attended this industrial visit on Friday 1 December 2023 . Employees discussed about Witnessed firsthand the intricate processes behind the creation of various Biomedical products.

Outcome

This visit helps the participants to gain valuable insights into the workings of a leading technology company and understand the practical applications of their academic knowledge



Industrial Visit: “HORIBA India Pvt. Ltd.”

Industrial Visit: “Air Traffic Control (ATC) Airport Authority of India, Nagpur”

Objective

To provide Electronics and Communication Engineering students with practical insights into Air Traffic Control (ATC) operations, including radar systems, communication technologies, and safety measures in air traffic management.

About the Program

Air Traffic Control (ATC) Airport Authority of India Dr. Babasaheb Ambedkar International Airport Nagpur. Mr. G. H. Khare gave detailed information regarding technical functionality of Air Traffic Control. Total 54 students of fourth semester Electronics and Communication Engineering attended this industrial visit on Thursday 29th December 2023. "Air traffic controllers that work from air traffic control (ATC) towers are responsible for ensuring a safe distance between all aircraft, both in the air and on the ground, to prevent accidents. Air traffic management and control include: Surface movement and surveillance radars, Holographic radar, Navigation and surveillance systems, Voice communication control systems, Ultra-high frequency (UHF) and very high frequency (VHF) communication systems, Flight data information display equipment, Radio modems and transceivers.

Outcome

Visit provided students with firsthand experience of ATC operations and technology. Connected theoretical concepts with real world applications in aviation technology and safe



Faculty & students during the Industrial Visit: “Air Traffic Control (ATC) Airport Authority of India, Nagpur”

Expert Lecture: “Industrial Automation”

Objective

To familiarize students with the fundamental concepts and significance of industrial automation, highlighting its role in enhancing efficiency, productivity, and quality across various industries.

About the Program

The Department of Electronics & Communication Engineering, Tulsiramji Gaikwad Patil College of Engineering and Technology in association with Institution of Engineers IE(I) has organized a guest lecture on Industrial Automation. Mr. Pranav Mehar sir explained in this session about Industrial automation is the use of robotics, machines and control systems to perform tasks that were traditionally carried out by human workers. Automation can improve productivity, quality and safety in manufacturing and other industrial applications. Automation technology includes a wide range of tools and technologies, such as robots, numerical control (NC) machine tools, programmable logic controllers (PLCs), computer numerical control (CNC) systems and industrial sensors. Automation systems can be integrated into existing production lines or stand-alone and can be used to collect data for preventative maintenance of the equipment.

Outcome

Students gained a foundational understanding of industrial automation and its relevance in various industries



Expert delivering the Lecture on “Industrial Automation”

IE(I) Achievements

Prize winners at Various Events

| Sr. No. | Name of Students | Name of Activity/Event | Prize |
|---------|---------------------|---|------------------------------------|
| 1 | Bhagyashri Gurbhele | Workshop on Energy Conservation – 2023 at IEI Nagpur Local Centre | 1st Prize Winner |
| | Chahul Tembhare | | |
| | Akshata Khobragade | | |
| | Ruchita Lokhande | | |
| 2 | Pranju Upare | Workshop on Energy Conservation - 2023 at IEI Nagpur Local Centre | 1st Prize Winner |
| | Vedanti Kondhalkar | | |
| 3 | ३३३rd ३३३३r३ | Poster Presentation in IEI 3rd Reginal Conclave on “Cyber Security & Digital Forensics” | 1st Prize Winner |
| | Sagar Nandanwar | | |
| | Jay Mahatme | | |
| | Durga Bavane | | |
| 4 | Lipakshi Banpurkar | Project/Model Exhibition competition in IEI 3rd Reginal Conclave on “Cyber Security & Digital Forensics” | 3rd prize Winner |
| | Saurabh Satpute | | |
| 5 | Lipakshi Banpurkar | Python Champ Competition in IEI 3rd Reginal Conclave on “Cyber Security & Digital Forensics” | 2nd Prize Winner |

Certificate of Participation at 38th National Convention of Mechanical Engineers

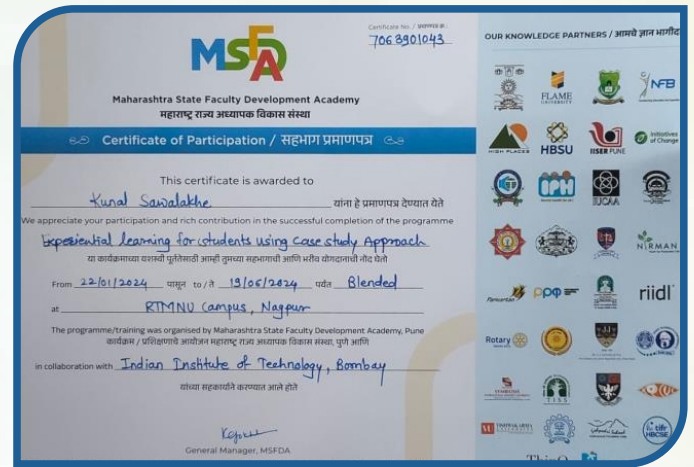
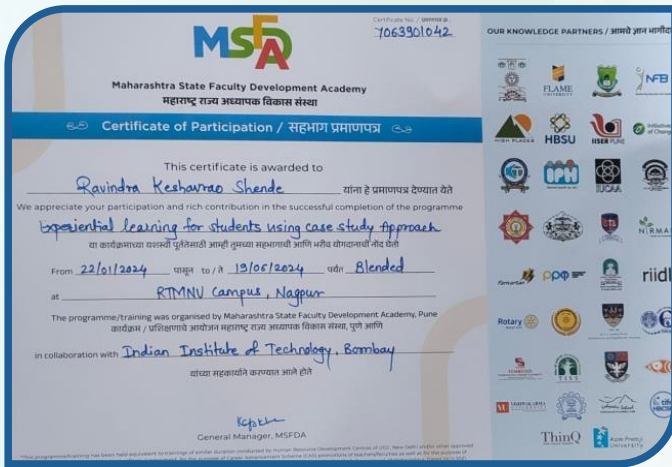
The Institution of Engineers IE(I) Cell of Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur (An Autonomous Institution Affiliated to RTM Nagpur University) has participated in exhibition organized on 8th September 2023 (Day-1) in 38th National Convention of Mechanical Engineers(NCMC) & National Seminar on “Emerging Trends and Development on Smart Manufacturing, Renewable Energy, System Diagnostics/design” at VNIT organized by The Institution of Engineers (India) Nagpur Local Centre in Association with Visvesvaraya National Institute of Technology, Nagpur .



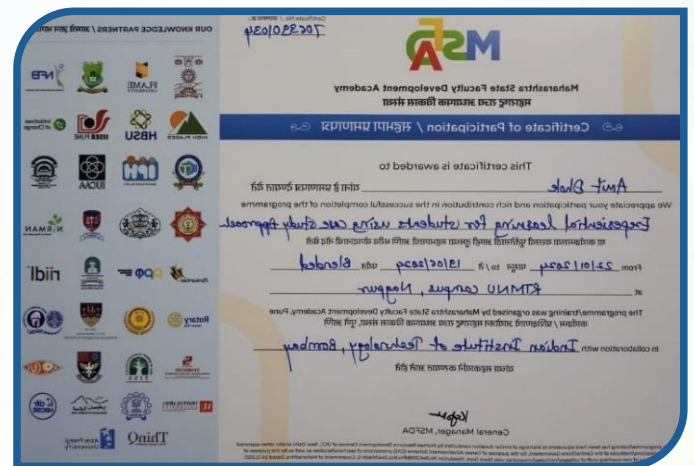
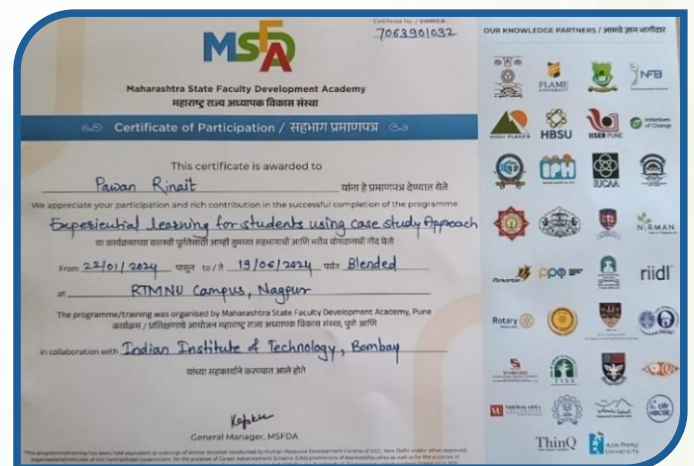
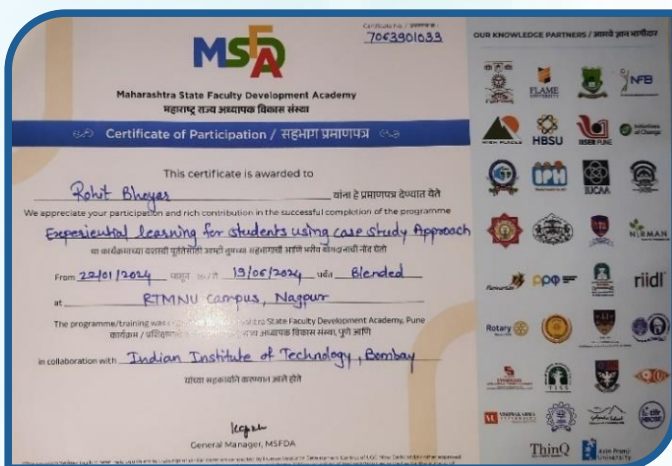


3) 1st Prize & 2nd Prize winners at IEI third regional Conclave of Students Chapter





Certificates of Faculty Co-Ordinator's



Certificates of Students Participants

Proposals sent under IE(I)

**Proposals Sent Under Institution of Engineers (India)
Session: 2023-24**

| Sr. No. | Name of Proposal | Date | Proposal Sent To | Reference Letter No. |
|----------------|---|-------------|--|-----------------------------|
| 1 | Best Students Chapter Award 2023-24 | 27/7/2023 | The Director Membership Institution of Engineers (India), Kolkata | TGPCET2023-24/144 |
| 2 | Third Students Regional Conclave and international conference of Students Chapter 2023-24 | 14/9/2023 | The Director Institution of Engineers (India), Kolkata | TGPCET2023-24/437 |
| 3 | Award of Scholarship for Financial Year 2023-24 | 28/10/2023 | The Director Institution of Engineers (India), Kolkata | TGPCET2023-24/538 |

LOKMAT TIMES

TGPCET students take part in mechanical engineers' meet



The students of Tulsiramji Gaikwad-Patil College of Engineering and Technology during national seminar.

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) participated in exhibition organized in 38th National Convention of Mechanical Engineers (NCME) and National Seminar on 'Emerging Trends and Development on Smart Manufacturing, Renewable Energy, System Diagnostics/Design' at VNIT by The Institution of Engineers (India), Nagpur local centre

in association with VNIT. During the exhibition, students from electrical, civil, electronics and communication and information technology showcased their projects and explained the technical aspects of their research work to director of VNIT Dr P M Padole and organising secretary Dr G K Awari along with more than other 100 delegates who visited the exhibition.

Nagpur First
Page No. 4 Nov 03, 2023
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Lokmat Times

Power of stable mind helps in difficult times: Swaminathan

LOKMAT NEWS NETWORK
NAGPUR, SEPT 26

The Institution of Engineers (India) Chapter of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur recently organised a webinar on 'Stability and Success in Challenging Times' recently through Webex Online Application and also Live streaming on Facebook Page of College.

The objective of organising the webinar was to ensure that education is not obstructed during the Covid-19 pandemic as the Corona pandemic has made a global impact in the past weeks and continues to hit most of the sectors, with education being one of the most affected.

Trainer and counsellor, Brahmakumaris Vidyalaya Dr E V Swaminathan and Raja Yoga Meditation teacher B K Kiran addressed the webinar.

The this webinar dis-

Various techniques like exercise focusing on spiritual life will be useful in dealing with the tough times, he said. The session was really fruitful and very interactive.

cussed ways to manage stress and anxiety, utilise strategies to motivate during challenging times.

Dr E V Swaminathan addressed the students about power of stability in difficult times by sharing many real examples and inspiring stories with students. In his address he also delivered a talk on how to make mind your best friend.

Various techniques like exercise focusing on spiritual life will be useful in dealing with the tough times, he said.

The session was really fruitful and very interactive.

He answered all the questions from participants. Later on programme continued with meditation which was demonstrated by Brahma Kumaris Kiran who effectively guided for mental peace.

Webinar received good response, more than 1000 participants were registered and attended this webinar. Participants enjoyed this energetic, knowledgeable, well informative and positive session by both the experts.

Participants said organising such webinar would be really helpful for them.

E-certificate were given away to all participants. Management appreciated the initiative taken by program co-ordinator, Prof Neha Mogre, co-ordinator Prof Vishwjeet Ambade and Sushil Bhise who took the great efforts to deliberate this idea into execution.

Prof Neha Mogre ended the program by proposing vote of thanks.

TGPCET students shine in regional meet

Students of Tulsiramji Gaikwad Patil College of Engineering & Technology (TGPCET), under the banner of IE(I), participated in the 3rd regional conclave of student's chapter (WR) on 'Cyber security and digital forensics'. The event was held by

Engineering and Business Management, Jalgaon, in collaboration with IE(I)'s Maharashtra state centre and Nashik centre. Students Sharad Dhotre and the group from the IT department won the poster competition, bagged the 2nd position in Python Champ. The third prize in model exhibition was won by Lipakshi Banpurkar and Saurabh Satpute from the computer science and engineering department. A total of 17 students participated in the event. The activity was coordinated by IEI coordinator Prof Praful Ghadge.

CENTRAL RAILWAY

Nagpur Division

E-TENDER NOTICE

OPEN TENDER NOTICE No.

DRM/NWP-40-2024 OF 06/05/2024

1) Name of work: Hiring of pumps for pumping out rainwater from LHS under



'गायकवाड'मध्ये सोलर तंत्र ज्ञानावर कार्यशाळा

नागपूर : दि तुळशीराम गायकवाड पाटील कॉलेज ऑफ इंजिनीअरिंग अँड टेक्नॉलॉजी येथे द्वितीय आणि अंतिम वर्षाच्या विद्यार्थ्यांकरिता 'सोलर फोटोव्होल्टॅक सिस्टीममधील आधुनिक बदल' या विषयावरील कार्यशाळेचे आयोजन करण्यात आले होते. सोलर तंत्रज्ञानाशी संबंधित विविध विषयांवर निरनिराळ्या तज्ज्ञांनी मार्गदर्शन केले. यामध्ये समीर पाठक, प्रशांत ठाकरे, विपीन चौधरी, आशिष पहरकर यांचा समावेश होता. सोलर तंत्रज्ञानातील नवे प्रयोग आणि आधुनिकीकरण यांची गरज मान्यवर वक्त्यांनी व्यक्त केली. यावेळी, कॉलेजमधील प्राध्यापक आणि विद्यार्थी मोठ्या प्रमाणावर उपस्थित होते.

लोकमत

आय विटनेस

लोकमत प्रिंटिंग प्लांटला विद्यार्थ्यांची भेट



लोकमत मीडिया ग्रुपच्या बुटीबोरी येथील अत्याधुनिक प्रिंटिंग प्लांटला तुळशीरामजी गायकवाड-पाटील कॉलेज ऑफ इंजिनिअरिंग अँड टेक्नॉलॉजीच्या इलेक्ट्रिकल शाखेचे शिक्षक व विद्यार्थ्यांनी शुक्रवारी भेट दिली. दरम्यान, त्यांनी प्रिंटिंग प्लांटमधील जगातक दजचे प्रिंटिंग तंत्रज्ञान व व्यवस्थापनाविषयी विस्तृत माहिती जाणून घेतली. या शैक्षणिक दौऱ्यात २ शिक्षक व ३८ विद्यार्थ्यांचा समावेश होता. हा दौरा त्यांच्यासाठी संस्मरणीय ठरला.



Community News

Three-day mobile robotics workshop held at TGPCET



The students during a mobile robotics workshop at TGPCET.

The Department of Electronics and Communication Engineering, Tulsiramji Gaikwad-Patil College of Engineering & Technology (TGPCET) organised a 3-day mobile robotics workshop for developing the additional academic skills of the students. NU Intelligence Pvt Ltd Nagpur provided the technical know-how. Amesh Ukani and

Swapnali introduced open source microcontroller boards and C++ programming language to the students. Total 62 students attended the event. Valedictory programme was attended by NU Intelligence director Neema Ukani, Dr Sanjay Asutkar, Dr Pravin Tajane, Rahul Dhutur, Sandeep Thakare and others.

तुळशीरामजी गायकवाड-पाटील कॉलेज ऑफ इंजिनिअरिंग अँड टेक्नॉलॉजी, नागपूर

श्री मिथिलेश कापसे, संचालक, लेव्हल अप स्ट्रक्चर्स, नागपूर यांचे द्वितीय आणि तृतीय वर्षाच्या विद्यार्थ्यांसाठी अतिथी व्याख्यान

नागपूर : तुळशीरामजी गायकवाड-पाटील कॉलेज ऑफ इंजिनिअरिंग अँड टेक्नॉलॉजी, नागपूर (एक स्वायत्त संस्था) चा स्थापत्य अभियांत्रिकी विभाग इंडियन कॉन्क्रीट इन्स्टिट्यूट (ICI), इन्स्टिट्यूट ऑफ इंजिनियर्स (इंडिया) आणि इंडियन स्ट्रुट ट्रेनिंग एन्ड एज्युकेशन (ISTE) यांच्या संयुक्त विद्यमाने -ठळक फोरम अंतर्गत ०२.०३.२०२४ (शनिवार) रोजी दुपारी १२:०० वाजता आयोजित केले.

आपल्या सत्रादरम्यान, श्री मिथिलेश कापसे यांनी आर्किटेक्चर इंजिनिअरिंग कन्स्ट्रक्शन (-EC), इखचू - नियोजनाची प्रक्रिया, डिझाइन, बांधकाम, इमारतीची देखभाल, REVIT, Civil 3D, TEK-संरचना (स्टील स्ट्रक्चर्स डिझाइन करणे), Benteley system Mo MicroStation, यांसारख्या सॉफ्टवेअर्सबद्दल स्पष्टीकरण दिले. -rchiC-P, Infraward, Vectaworks लँडमार्क (लँडस्केप डिझाइन), आणि Navisworks, तपशील पातळी (LOD), REVIT चे एंक्लिकेशन, फायदे आणि मर्यादा यासह ऑगमेंटेड रिलिटी (-उ)



आणि व्हर्चुअल रिलिटी (VR) एक्झीक्युशन आणि ठरलेखद मध्ये भविष्यातील ट्रेंड आणि नवकल्पना आणि इखचू तंत्रज्ञान. प्रात्यक्षिक सत्रात, त्यांनी ठरलेखद च्या कार्यक्षमतेचे प्रदर्शन केले, सॉफ्टवेअरमधील आर्किटेक्चरल भाग आणि

स्थापत्य अभियांत्रिकी भाग आणि बांधकाम क्षेत्रातील त्यांचे अनुप्रयोग आणि त्यांच्या वास्तविक जीवनातील अनुप्रयोगांमधील फरक ठळकपणे दाखविला. डॉ. आसिफ बेग आणि डॉ. स्नेहल अभ्यंकर यांच्या मार्गदर्शनाखाली प्रा.

मोहितसिंग कटोच यांनी यशस्वीपणे सूत्रसंचालन केलेल्या या अभ्यासपूर्ण, संसाधनात्मक आणि मनोरंजक व्याख्यानाचा चौथ्या आणि सहाव्या सेमिस्टरच्या सिव्हिल इंजिनिअरिंगच्या एकूण ८५ विद्यार्थ्यांनी लाभ घेतला.

डॉ. मोहन गायकवाड-पाटील, अध्यक्ष GPG, श्री. आकाश गायकवाड-पाटील, उपाध्यक्ष GPG, डॉ.संदीप गायकवाड, खजिनदार, GPGI, डॉ. पी.एल. नाकतोडे, प्राचार्य, आणि प्रा. प्रगती पाटील, उप-प्राचार्य यांनी शिक्षकांचे कौतुक केले. सदस्यांनी त्यांच्या प्रयत्नांसाठी आणि या अतिथी व्याख्यानात सक्रिय सहभाग घेतल्याबद्दल विद्यार्थ्यांचे अभिनंदन केले. स्थापत्य अभियांत्रिकी विभागाचे प्रमुख डॉ.स्नेहल अभ्यंकर, डॉ.आसिफ बेग, डॉ.अमेय खेडीकर, प्रा.संजय भडके, प्रा.मोहितसिंग कटोच, प्रा.प्रियांका पेटकर, प्रा.दिव्यानी हरपाल, प्रा.कोमल मेश्राम, प्रा. नयना सांगले प्रा.गायत्री बडोले, प्रा.मृणाली माकोडे, प्रा.ऋषभ माहुरे यांनी या अतिथी व्याख्यानाच्या आयोजनात मोलाची कामगिरी बजावली.



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TULSIRAMJI GAIKWAD-PATIL
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