

TULSIRAMJI GAIKWAD-PATIL College of Engineering & Technology



An Autonomous Institute

NAAC Accredited

www.tgpcet.com

Department of Science and Humanities

KSHITIJ NEWSLETTER 2024-25

Semester-II Volumn:2 Issue:4



B.Tech | B.Arch | M.tech | MBA | MCA | Polytechnic | BAMS | D.Pharm | B.Sc | Nursing | Physiotherapy

Vision Mission of the Institute



"To emerge as a learning Center of Excellence in the National Ethos in domains of Science, Technology and Management"



- To strive for rearing standard and stature of the students by practicing high standards of professional ethics, transparency and accountability
- To provide facilities and services to meet the challenges of Industry and Society.
- To facilitate socially responsive research, innovation and entrepreneurship.
- To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices.



POs

- 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



ABOUT TGPCET & ABOUT DEPARTMENT

ABOUT TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was established in the year 2007 by Vidarbha Bahu-uddeshiya Shikshan Sanstha (VBSS), a registered society. It is a self financed Private Engineering College, which is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) Nagpur and is approved by All India Council for Technical Education, New Delhi. Also college is approved by Directorate of Technical Education (DTE), Mumbai, Maharashtra State. The Institute is Accredited with A+ (3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC). An Autonomous Institute affiliated to RTM Nagpur University, Nagpur.

ABOUT DEPARTMENT

The Department of Basic Sciences and Humanities was established in 2007 with a current year intake of 1,020 students. The Basic Science Department plays a pivotal role in providing a strong foundation for engineering students.

The department imparts essential knowledge in subjects like mathematics, physics, chemistry, and communication for comprehensive student development. This forms the cornerstone for various engineering disciplines.

The Department has its own departmental library with a comprehensive collection of books to serve as a ready source of information. It comprises a team of experienced and well-qualified faculty members who have a passion for teaching and provide high-quality instruction, helping students build a strong academic foundation.

The Department focuses on interdisciplinary learning, which bridges the gap between science and engineering, fostering innovative thinking among students. This approach is vital for solving complex real-world engineering problems.

Basic science courses emphasize critical thinking and problem-solving skills, which are highly transferable to engineering tasks. Studying the fundamentals of science can inspire creativity in engineering students, encouraging innovative solutions to engineering challenges.

The department organizes industrial visits and expert lectures on emerging trends, featuring eminent personalities from industry and academia.

To establish a link between students and parents, the department has implemented a Mentor-Mentee scheme. Teachers act as mentors, guides, and philosophers who interact constantly with students. This academic family approach helps address students' educational, socio-economic, health-related, and personal challenges, providing comprehensive support and guidance.



ABOUT MANAGEMENT



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."

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.



Mr. Akash Gaikwad-Patil Vice Chairman, Gaikwad-Patil Group

"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.



ABOUT MANAGEMENT



Dr. Anjali Patil-Gaikwad President, Gaikwad-Patil Group of Institutions

"Shaping Minds, Building Futures: Welcome to the Engineering Innovation Hub."

"Welcome to TGPCET, a premier institution dedicated to nurturing exceptional engineers who can shape the world of tomorrow. Here, we believe in cultivating a stimulating learning environment that fosters creativity, critical thinking, and a passion for innovation. Our vision is to provide a holistic learning experience that equips you with the technical expertise, leadership skills, and innovative thinking needed to thrive in a dynamic industry. With a rich legacy of academic excellence, we offer a diverse range of engineering and management programs designed to equip you with the knowledge, skills, and experiences needed to thrive in the ever-evolving engineering landscape. Our dedicated faculty, state-of-the-art facilities, and strong industry partnerships ensure you receive a wellrounded education that prepares you for success in your chosen field. We invite you to join our vibrant community and embark on a journey of excellence."



Dr. Sandeep Gaikwad Treasurer, Gaikwad-Patil Group of Institutions

"Creating a Brighter Tomorrow, One Investment at a Time: Your Pathway to Engineering Excellence ."

The essence of 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 a 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 responsible citizens by abiding by the rules and will live 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 to have a glorious career **ahead**.



ABOUT MANAGEMENT



Dr. P. L. Naktode Principal Principal@tgpcet.com

"Nurturing Innovation, Empowering Leaders - Engineering Education Redefined ."

It is my privilege to warmly welcome you to the college, which is an autonomous institution, committing to 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 practicingengineers, capable managers and above all a good human being to build a stronger, vibrant and skilled India. We dream that TGPCET should play a definite role in shaping the careers of tomorrow's leaders and developing individuals to have an impact on global development.

Looking at our track records, TGPCET has achieved many feathers in terms of consistently 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 rule the world. Success depends on opportunity. Try to get the maximum from the available resources. I wish best of luck in all your endeavors.



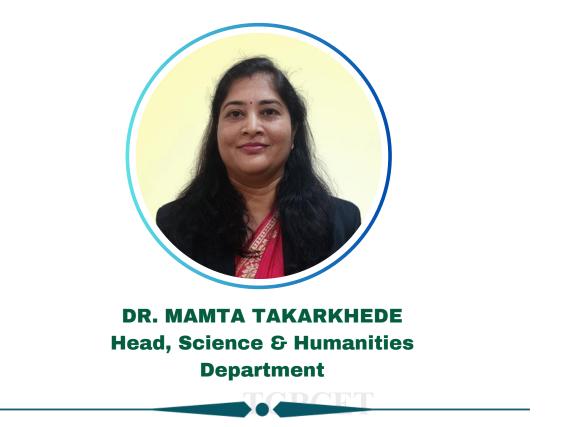
Dr. Pragati Patil Vice Principal viceprincipal@tgpcet.com

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.



Head of Department



Welcome to Department of Basic Sciences and Humanities. Department is laying the strong foundation for budding engineers, through our determined, devoted dedicated team of young dynamic faculty members. The department enhances students' knowledge, critical thinking, ability to understand the technology and command of analyzing the things in modern society.

Department of Basic Sciences and Humanities plays Vital role in an engineering college to lay a strong foundation of basic principles such as Mathematics Physics, Chemistry and Communication Skills in the mind of the learners. I am confident that the students of the department would justify the credibility of the department by showing a high level of professional competence in their respective field.

I wish Best of Luck to the students......



EDITORIAL BOARD



It brings me immense joy & pleasure to introduce the Fourth edition of the department NEWSLETTER "KSHITIJ". All the creative energies that came on to this platform in the form of faculty experts & students are finally presenting a replica of their enthusiastic hard work through this extravaganza that has come out so organically. Technical & Arts every section shines out differently in its true sense. All the events conducted throughout the year where perfectly planned & the overwhelming response it received said it all! This piece of art would not have been complete without the sheer determination & perseverance of all the students who pushed their limits every time to bring out this artistic reality. Their efforts coupled with immense support from the faculties truly have done justice to carry on the legacy. I am grateful for all the support NEWSLETTER "KSHITIJ" has received throughout the year in every possible way from the faculties & Students. I hope the readers of NEWSLETTER have a wonderful reading experience & wish this year's edition too receives your love & support like it has always received till date.



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Industrial Visit

LIST OF VISIT'S



Sr. No.	Name of Company	Branch	Date
1	Utkarsha Enterprises	AE / EE	25 Feb 2025
2	IT Networkz	CSE(DS)	22 Mar 2025
3	VDIA Engineering Design Innovation Centre	ECE	25 Mar 2025
4	Bramhanee Industries	ME	5 Jun 2025
5	Regional Metrological Centre	AE	5 Aug 2025
6	Royal Webtech Pvt Ltd	IT	13 May 2025
7	CSIR-NATIONAL ENVIRONMENTAL ENGINEERI	вт	14 May 2025
8	PSK Technologies Pvt Ltd	CSE	17 May 2025



Utkarsh Interprises

◎ AIM:

To expose First Year Engineering students to real-world industrial processes, machinery, and safety practices through a guided visit to Utkarsh Enterprises, Butibori, Nagpur, thereby enhancing their practical understanding of manufacturing, engineering applications, and workplace culture at an industrial level.

Objectives of the Industrial Visit:

- To introduce students to real-time industrial operations and manufacturing processes followed at Utkarsh Enterprises.
- To understand the application of engineering principles in machining, fabrication, and production environments.
- To observe the role of automation, quality control, and safety measures in an industrial setup.
- To familiarize students with the functioning of mechanical tools, equipment, and production lines.

Conclusion:

The industrial visit to Utkarsh Enterprises, Butibori, Nagpur, proved to be an enriching experience for the First Year Engineering students. It provided valuable exposure to real-time manufacturing processes, machinery operations, and workplace ethics. Students observed the practical application of basic engineering concepts and developed a better understanding of industrial workflows, safety standards, and quality control techniques.





Glimpses of Visit



IT Networkz Pvt Ltd

Ø AIM:

To provide First Year Engineering students with exposure to real-world IT infrastructure, networking solutions, and cybersecurity practices through an industrial visit to IT Networkz, Nagpur, thereby enhancing their foundational understanding of computer networks, hardware systems, and professional IT environments.

VObjectives:

To familiarize students with the structure and operation of modern IT infrastructure, including servers, routers, switches, and networking protocols.

To understand the practical application of basic concepts in computer science, electronics, and communication in an IT setup.

To gain insights into cybersecurity practices, data management, and enterprise network architecture.

To observe the functioning of real-time support systems, client services, and system integration processes.

Conclusion:

The industrial visit to IT Networkz, Nagpur, offered an insightful and practical learning experience for the First Year Engineering students. It enabled them to witness firsthand how IT systems and networks function in a professional environment and how theoretical knowledge is applied to solve real-time challenges.

Through this exposure, students gained a deeper appreciation for fields like networking, cybersecurity, and IT services. The visit sparked curiosity, encouraged professional thinking, and helped them understand the dynamic nature of the information technology industry. Overall, it was a highly beneficial initiative that enriched the academic learning process.





Glimpses of Visit



Bramhanee Industries

Ø AIM:

To introduce First Year Engineering students to the practical aspects of furniture design, manufacturing processes, and industrial operations through a visit to Bramhanee Furniture Pvt. Ltd., Butibori, Nagpur, enhancing their understanding of materials, production techniques, and the role of engineering in the furniture industry.

V Objectives:

- To understand the complete manufacturing workflow of furniture production from raw material selection to finished product assembly.
- 1. To familiarize students with the use of machines such as CNC routers, cutting tools, polishing units, and assembly stations in a real industrial setup.
- 2. To observe how concepts of mechanical, civil, and production engineering are applied in the furniture industry.
- 3. To gain exposure to quality control, inventory management, and workplace safety standards in a factory environment.
- 4. To build awareness about sustainable manufacturing, design innovation, and efficient use of materials in furniture production.

Conclusion:

The industrial visit to Bramhanee Furniture Pvt. Ltd., Butibori, Nagpur was valuable experience for students. Students gained hands-on exposure to machinery, materials, and production management, enhancing their practical understanding of industrial operations. The visit also highlighted the importance of precision, sustainability, and innovation in modern manufacturing. Overall, the visit successfully bridged the gap between theory and practice, and motivated students to think critically about engineering applications in design and industry.





Regional Metrological Center

🞯 AIM:

To provide First Year Engineering students with practical exposure to meteorological instruments, weather forecasting techniques, and environmental data analysis by visiting the Regional Meteorological Center, Nagpur, thereby enhancing their understanding of interdisciplinary applications of Physics, Environmental Science, and Data Interpretation in real-world scenarios.

Objectives of the Industrial Visit:

To familiarize students with the working environment of a meteorological organization and its role in weather forecasting and climate monitoring.

To observe and understand the functioning of various meteorological instruments such as barometers, anemometers, rain gauges, and weather radar systems. To gain insights into the process of data collection, analysis, and interpretation used in

predicting weather patterns and natural disasters.

To bridge the gap between theoretical knowledge and real-time applications of physics and environmental science in meteorology.

To develop awareness about the importance of atmospheric science and its societal impact, including agriculture, aviation, disaster management, and public safety.

To motivate students to explore interdisciplinary career opportunities in fields such as climatology, environmental engineering, and geospatial technologies.

Conclusion:

The visit was very fruitful for the students. In summary, Automated Weather equipment process can be challenging and complex, and manufacturers must navigate a range of issues related to raw material availability, design and engineering, production efficiency, quality control, environmental concerns.





Glimpses of Visit



Royal Webtech pvt ltd

Ø AIM:

To provide First Year Engineering students with practical exposure to software development, web technologies, and IT project workflows through an industrial visit to Royal Webtech Pvt. Ltd., Nagpur, enhancing their foundational knowledge of the IT industry and its real-world applications.

Objectives:

- To introduce students to the real-time working environment of an IT company involved in software development and web-based solutions.
- To understand the process of website design, development, testing, and deployment using modern web technologies.
- To gain insights into client interaction, project management, and software development life cycle (SDLC) practices followed by the industry.
- To explore different roles in an IT firm such as frontend/backend developers, testers, UI/UX designers, and project coordinators.

Conclusion:

The industrial visit to Royal Webtech Pvt. Ltd., Nagpur, provided First Year Engineering students with valuable exposure to the dynamic environment of the software and web development industry. Students learned how IT companies handle client requirements, manage development projects, and use modern tools and technologies to deliver digital solutions.





Glimpses of Visit



CSIR-NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE-NEERI

Ø AIM:

To provide First Year Engineering students with practical insights into environmental research, pollution control technologies, and sustainable development through an industrial visit to CSIR-NEERI, Nagpur, thereby fostering awareness of environmental challenges and engineering solutions in the real world.

Objectives:

- To introduce students to the ongoing environmental research, innovations, and ecofriendly technologies developed at CSIR-NEERI.
- To understand the scientific and engineering principles behind water and air quality monitoring, waste management, and pollution control.
- To observe how laboratories function in real-time for environmental testing, analysis, and remediation studies.
- To explore the role of engineers and scientists in addressing environmental issues such as climate change, industrial pollution, and resource conservation.

Conclusion:

The industrial visit to CSIR-National Environmental Engineering Research Institute (NEERI), Nagpur, offered First Year Engineering students an eye-opening experience into the world of environmental science and sustainable engineering.

The visit deepened their understanding of the environmental impact of technology and the need for sustainable solutions. Overall, the experience was highly educational, thought-provoking, and aligned with the values of responsible and innovative engineering.





Glimpses of Visit



PSK Technologies pvt ltd



To expose First Year Engineering students to practical aspects of IT training, software development, and emerging digital technologies through an industrial visit to PSK Technologies Pvt. Ltd., Nagpur, with the objective of enhancing their awareness of industry requirements, technical skills, and career opportunities in the IT sector.

Objectives:

- To introduce students to real-world software development practices, programming frameworks, and training modules used in IT industries.
- To understand the role of various domains such as web development, app development, networking, and cybersecurity in a company's services.
- To explore how project planning, execution, and client interaction are managed in a professional software training and development company.
- To bridge the gap between theoretical learning and industrial application by observing IT tools, coding platforms, and workflow systems.
- To gain insights into IT industry expectations, skill sets required, and career development paths for engineering students.

Conclusion:

The industrial visit to PSK Technologies Pvt. Ltd., Nagpur, was a highly informative and motivating experience for the First Year Engineering students. It offered a real-time view of the software industry, including project development, technology training, and IT services. Students gained exposure to various fields like software programming, cybersecurity, networking, and digital marketing. This visit successfully sparked interest in IT careers and equipped students with a clearer vision of how their academic knowledge connects to future professional opportunities.





Glimpses of Visit



Guest lecture

LIST OF GUEST LECTURE

Sr. No.	Name of Guest	Торіс	Branch	Date
1	Mr. Sharad Bansod	Web Development	CSE/IT/DS/ AIML	25 Feb 2025
2	Mr. Abhay Nafdey	Digital Membrane Technologies for Water Softening Process	CE/ME/BT/ AE/EE/ECE	26 Apr 2025
3	Mr. Shivaji Kuche	Motivational Lectures and Talks	CE/ME/BT/ AE/EE/ECE	19 Apr 2025



Technical Workshop

TECHNICAL WORKSHOP

Sr. No.	Name of Guest	Торіс	Branch	Date
1	Mr. Sarang Gurve	2 days Hands on Training on Frontend Development Using Bootstrap	CSE/IT/DS/ AIML	9 May 2025 & 10 May2025



Technical Workshop

AIM:

To provide First Year Engineering students from Software-related branches with practical exposure and foundational knowledge in Front-End Design using Bootstrap, through expertled hands-on industrial training by Mr. Sarang Gurve.

Objectives:

- To introduce students to the core principles and components of responsive web design.
- To provide practical skills in using Bootstrap framework for building modern and mobile-friendly websites.
- To demonstrate the integration of HTML, CSS, and Bootstrap classes for real-time frontend development.

Outcome:

- After completing the two-day training, students will:
- Understand the fundamentals of front-end web development using Bootstrap.
- Be capable of creating responsive and well-structured web pages.
- Gain hands-on experience in working with Bootstrap components, grids, and forms.
- Develop a mini-project or basic portfolio webpage using the skills learned.



Inauguration of two days workshop on Frontend development using bootstrap



Workshop conduction on Frontend development using bootstrap





Conducted by Mr Sarang Gurve from IT networkz Pvt Ltd Nagpur

Parents-Teachers Conclave

Aim:-

The aim of Parents-Teachers conclave is to provide platform for interaction between the parent and teachers.

Objectives:-

- To elaborate the knowledge about college and autonomy.
- · Regular functioning of college activity and innovative practices.
- \cdot To distribute students scorecards and to felicitate the rankers.

 \cdot To make parents aware about college infrastructure, available courses, and the amenities (such as library, Laboratories, hostel, transport) to the parents.

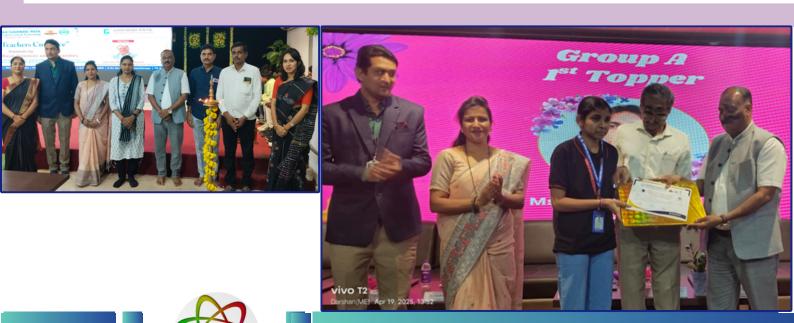
Conclusion:

A Program "Parents-Teacher Conclave 2023" is to be organize by Department of Basic

Sciences & Humanities of Tulsiramji Gaikwad Patil College of Engineering and Technology on 19th April 2025.

This Program is use to keep the Parents updated about their child's academic and overall

performance. It is crucial that along with teachers, parents should also be involved in their ward's learning process.



Grants/Research Project



VAANI Proposal from the First Year Department is approved by AICTE, New Delhi for the Marathi Language.

FDP_Application_N umber: 2289714324 Coordinator_Name: Dr Kanchan Rambhau Gopal Institute_Name: TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING AND TECHNOLOGY Institute_State: MAHARASHTRA Thrust_Area: Energy, Sustainability & Climate Change Title_of_FDP: SUSTAINABLE ENERGY MANAGEMENT IN THE CONTEXT WITH CLIMATE CHANGE Event_type: Marathi



Dr. Kanchan Gopal and Dr. Punam Lambat 💐



NPTEL/FDP Achievements

NPTEL Certification

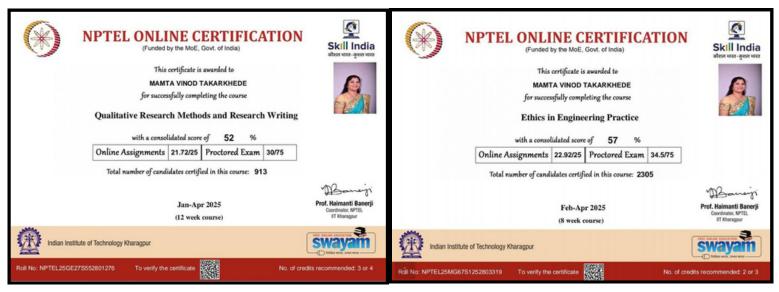
SN	Name of Faculty	Name of Course	Performance
1	Dr. Geeta Padole	Outcome based Padagogic principles for effective teaching	Elite
2	Dr. Mamta Takarkhede	Effective Engineering Teaching in Practice	Elite + Silver
3	Dr. Mamta Takarkhede	Introduction to Professional Scientific Communication	Elite + Silver
4	Dr. Mamta Takarkhede	Leadership and Team Effectiveness	Elite
5	Dr. Mamta Takarkhede	Qualitative Research Methods and Research Writing	Completed
6	Dr. Mamta Takarkhede	Ethics in Engineering Practice	Completed
7	Mr. Sourabh Umredkar	Outcome based Padagogic principles for effective teaching	Elite
8	Prof. Nadir Hussain	Outcome based Padagogic principles for effective teaching	Elite
9	Prof. Pranjali Lute	Accreditation and Outcome Based Learning	Elite
10	Prof. Pranjali Lute	Teaching and Learning in Engineering (TALE)	Elite
11	Prof. Pranjali Lute	Roadmap for patent Creation	Completed



NPTEL Certification





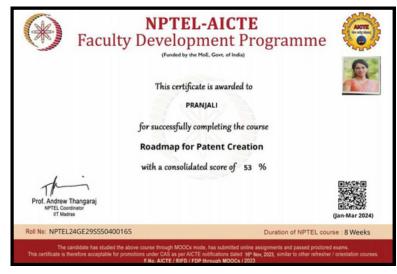




NPTEL Certification









NPTEL & Research Paper Publications Certificates



Global Academic Research Excellence Awards Best Researcher Award in field of Mathematical Science



Extra Curricular Activities

AAGHAAZ Freshers









Departmental News

FROM THE COLLEGES

TGPCET



DEPARTMENT of Basic Sciences and Humanities, of Tulsiramji Gaikwad-Patil College of Engineering and

Technology, (TGPCET) had successfully conducted an insightful industry expert lecture on Web Development for B Tech. students. The session began with the lamplighting by the hands of the chief guest, Sharad Bansod, along with Dr P L Naktode - Principal, Dr Mamta Takarkhede, Prof Nadir Husain, HoDs, BS&H and First year faculties. Sachika Singh anchored and proposed the vote of thanks. Dr Mohan Gaikwad-Patil, Chairman, GPGI, Akash Gaikwad-Patil, Vice-Chairman, GPGI, Dr Sandeep Gaikwad-Patil Treasurer, GPGI, Dr P L Naktode, Principal, Dr Pragati Patil-Bedekar, Vice-Principal supported in organising this guest lecture. The Guest Lecture was planned and coordinated by Faculty member Prof Kalyani Bhambre along with other faculties.

इंजीनियरिंग सामग्री, गणितीय मॉडलिंग और प्रौद्योगिकी में इसके अनुप्रयोगों में हालिया रुझानों पर राष्ट्रीय स्तर पर एक सप्तांह के संकाय विकास कार्यक्रम का उद्घाटन

ß



रहोंकसत्ता

गायकवाड अभियांत्रिकीत व्यक्तिमत्त्व विकास कार्यशाळा

तळशीरामजी गायकवाड-पाटील कॉलेज ऑफ इंजिनिअरिंग अँड टेक्नॉलॉजीच्या मूलभूत विज्ञान विभागाच्यावतीने १३ जुलैला एकात्मिक व्यक्तिमत्त्व विकास अभ्यासक्रमावर कार्यशाळा पार पडली. प्रमुख पाहुणे म्हणून प्रा. हरिकृष्ण गोहिल (सुरत), प्राचार्य डॉ. पी.एल. नाकतोडे, उपप्राचार्य डॉ. प्रगती पाटील, उपप्राचार्य, डॉ. ममता टाकरखेडे, प्रा. नादिर हुसेन उपस्थित होते. प्रा. अनुप गाडे यांचे समारोपीय भाषण झाले.

18/07/2024 | Nagpur | Page : 10 Source : https://epaper.loksatta.com

गायकवाड-पाटील ग्रुप ऑफ इन्स्टिट्यूशन्सने साजरा केला प्रेरणा दिवस May 9, 2024

Freshers Day – AAGHAAZ Organized by Department of Basic Sciences and Humanities of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur





टीजीपीसीईटीमध्ये पालक-शिक्षक संमेलनाचे यशस्वी आयोजन

K by Khabarbat** ber 7, 2024 in Education, latest Ne



'वैदिक गणित' या विषयावर दोन) दिवसीय कार्यशाळा गायकवाड इंजिनिअरिंग कॉलेजात संपन्न

न परंच मुमगाब : मूलभूत विज्ञान आणि मानविकी तथा बतीने तुळशीरामजी गायकबाड पार्टील ऑफ इत्रिनिअरिंग औड टेक्नॉलॉवजी लित মনিৰ আঁফ প্ৰাৰ্থনিৰ আঁচ ঠকনাজীৰ্কা নিৰদাৰ নামপুৰ বঁখাজ উপ্যায়েঁ যে হো ৰাজ বঁখ বিধিক্ত নাগিত্ব যা বিষয়েৰে বান বিৰম্বাথ বিধিক্ত নাগিত্ব যা বিষয়েৰে বান বিৰম্বা বিধিক্ত নাগিতে বিয়েম্বান্ধ কৰে নাৰীন গাঁৱনি বিক্ৰমিৰ বাদে বিধ্যায় কৰে নাৰীন কৰি নাৰ্বায় ব্যক্তা বাদ্য কৰে নাৰ্বায় কৰে নাৰ্বা বাদিন ব্যক্তা বাদ্য বাদ্য কৰে নাৰ্বায় কৰে নাৰ্বা নাৰ্বায় ব্যক্তা বাদ্য কৰে নাৰ্বায় কৰে নাৰ্বায় কৰি বাদ্য ব্যক্তা বাদ্য কৰে নাৰ্বায় কৰে নাৰ্বায় কৰে নাৰ্বায় ব্যক্তা ব্যক্তা কৰে নাৰ্বায় কৰে নাৰ্বায় কৰে নাৰ্বায় ব্যক্তা কৰে নাৰ্বায় বাদ্য না হেনে নাৰ্বায় ব্যক্তা কৰা নাৰ্বায় ব্যক্তা নাৰ্বায় ব্যক্তা না হেনে নাৰ্বায় বাদ্য কৰা নাৰ্বায় ব্যক্তা কৰা নাৰ্বায় ব্যক্তা না হেনে নাৰ্বায় বাদ্য কৰা নাৰ্বায় বাদ্য ব্যক্তা নাৰ্বায় বাদ্য না হেনে নাৰ্বা বাদ্য কৰা নাৰ্বায় বাদ্য বাদ্য ব্যক্তা কৰা নাৰ্বায় হেনা না হেনে নাৰ্বা বাদ্য বাদ एसरालय संस्थापक आगत संवालक गांभूर, तो. एल, नाकतोहे, प्राचार्य, दोःवीर्पासीईटी, आवार्थ्य प्रा. स्वती पाटील, हॉ. ममता टाकरखेटे थि प्रा. नादिर हुसेन, एचओडी आदी मान्यवर स्थित स्रोते. प्रास्तायिक टीनीर्पासीईटीचे प्राचार्य

डॉ. पी. एल. नाकतोडे यांनी केले. गणितातील समस्या सोडवण्याची कौशल्ये वाडवण्यासाठी त्यांनी वैदिक गणिताचे महत्व सण्ट केले. सत्रापूर्वी पूर्व-मूल्यांकन चाचणीसुद्धाः घेण्यात आर्छा आहे. पहिल्या दिवशीच्या पहिल्या सत्रात आर्क्ष आर्ड पहिल्वा दिकोशिया रॉडिला सतान वैदिक गणिताव्या स्टरपांदर (यायरक, परिवय आणि सुदे) यातर स्ट्रप्राय पहुले स्वन्तीक बदलवेदे यांनी वैदिक पर्वित्रयोन् प्रेतलेख्य मणिताव्या सिंहिय पुराधारंकि अप्रेथानालक स्वरवानी विद्यार्थाता मंग्रमुप्त केते, दैनीहन गणनेन विदिक गणितांवे व्यास्तर्धांक उपयोग पायरपूर, गरं ।वेधरण्यासांते आणी व्यास्तर सुरुष करण्यासांते पानी करण्ठ पद्धती स्पप्ट केल्वा, पाढे हे स्व मान्तर्थाय प्राप्त न्याव्या धुलम करण्यासाव त्यांना करण्यक प्रकाश स्थल केल्वा, युढे हे सत्र माननीय प्रमुख पाकुष्यांनी बालू ठेरले, याराता बदेनाकेटे यांनी पुणाकर संकल्पना स्पष्ट करण्यासाठी तिये नाविन्यपूर्ण तंत्र, विशेषताः रांगोळीच्या नमुन्यांचा वापर करून दाखवले, दुसऱ्या दिश्लीच्या दुसऱ्या



भारतीय गणितज्ञांच्या जीवनातील गोरताच गोरतज्ञाच्या जाचमाताठ ठसकारात्मकतेची शत्फोठ या विषयावर स्वर्णाल चंदनखेडे यांनी सकारात्मकतेच्या परिवर्तनीय शत्फीया अभ्यास केला, प्रश्न्यात गणितव रामानुबन यांच्या जीवनाचा अभ्यास करुन चंदनग्रंदे यांनी लयविकता आणि दुइनिश्वयाची कथा उलगडली, ठद मॅथ मॅविक शोठ वर आधारित स्पर्धा परीक्षेच्या दुसन्या दिवसाच्या तिसऱ्या सत्रात वैदिक गणिताद्वारे

ৰহীৰ আছি বৰাৰাকীৰৰা নন্ধাবহাঁল নিৰ बराज जाएं वजायकार्ज्य एत्यावराल एत्य स्पष्टीकरणाने ओत्यांना मोहित केले आणि यणिताच्या क्रियांबद्दल एक नवीन दृष्टीकोन प्रदान केलर. स्वाच्या शेवटी मूल्यमापनोतः वावणी घेण्यात आली.

यायका मन्त्रावा आठत. या कार्यक्रमायी सांगता एका शतिप्रतार संदेशाने झाली: ठएक यशस्त्री जत होण्यासाठी, व्यक्तीने सतत उत्कृण्टतेसा प्रयत्न केले पाहित्रेत आणि कठोर परिश्र भागि समार्थमाचे मूल्य आवस्थात केलं पाहिनेठ. समारोपाचे देवेचन डॉ. ममत टाकरखेडे, एचओडी, प्रथम वर्ष यांनी केले. प्रा पूजा शर्मा आणि प्रा. मीनाकी तिजारी, सानिक कांबळे, जान्हवी शेवरे, ज्ञानेश्वरी वांजळ आ काषक, जान्ववा शबर, जानकांध वालक जा। प्रतीक पटमासे यांनी सूत्रसंवालनाथी धु सांभाळली, रोहित बरबटे आणि प्रिया भग बांनी आभार मानले, तर कार्यक्रमाथी सांग्र

राष्ट्रगीत गाऊन करण्यात आली.

Departmental News

Intl meet on Indian Knowledge System and Science begins



The guests during the inauguration of an international conference organised by TGPCET.

The 10th international conference on Indian Knowledge System Science and Spirituality for Advancing Technology (IC-IKSAT 2K24) began at Tulsiramji Gaikwad-Patil College of Engineering & Technology (TGPCET) on Friday. The inaugural function commenced at Brahmakumari's Vishwa Shanti Sarovar, Nagpur, with the traditional lamp lighting ceremony. The chief guest, BK Bala Kishor Batchu, Zisis Rousopoulos and Dr Sachin L Borse expressed their thoughts. Chair man GPGI, Nagpur Dr Mohan Gaikwad-Patil, vice-chairman Akash Gaikwad Patil, treasurer Dr Sandeep Gaikwad and vice principal Prof Pragati Patil were present on the occasion.

'Vedic Mathematics important to enhance problem-solving skills'

TGPCET organises workshop on Vedic Mathematics

LOKMAT NEWS NETWORK

Principal of TGPCET, Dr P L Naktode, has said that Vedic Mathematics is extremely im-portant for enhancing mathemat-ical problem-solving skills. He was speaking during the inauguration of a two day work-shop on Vedic Mathematics or ganised by Department of Basic Sciences and Humanities of Tul-siramji Gaikwad-Patil College of Engineering and Technology of Engineering and Technology at JRD Tata Hall recently. Founders of S&SPL Swapnil Chandankhede said various mathematical tricks

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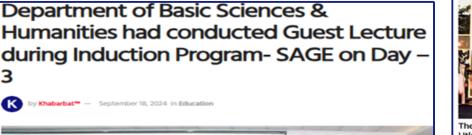


Dignitaries during a two-day workshop on Vedic Mathe tics organised by TGPCET at JRD Tata Hall. can be derived from Vedic Scrip-tures. He capitvated the students with ingenious methods of find-ing squares and simplifying mul-tiplication, demonstrating the practical applications of Vedic maths in everyday calculations. Swapnil Chandankhede dur-ing his talk on the topic 'The Power of Positivity From the Life of Indian Mathematicians: delved into the transformative power of positivity. Through the life of the legendary Math-

ematician Ramanujan, Chan-dankhede he unfolded a narra-tive of resilience and determina-tion. Chief guest Swagata Chan-dankhede showcased innovative techniques, particularly the util-isation of rangoli patterns to elucidate multiplication con-cents.

While dealing with the topic The Math Magic Show' she cap-tivated the students with her explanation of the principles

of addition and subtraction through Vedic Mathematics of-fering a fresh perspective on mathematical operations.Post-Evaluation test was conducted at the end of the session. Principal of TGPCET, Dr P L Naktode, vice-principal, TGPCET, Prof Pragati Patil, Dr Mamta Takarkhede and head (first year) Prof. Nadir Husain and a large number of students were present on this occasion.





तुळशीरामजी गायकवाड महाविद्यालयात प्रथम वर्षाच्या विद्यार्थ्यांचा प्रवेश समारंभ संपन्न



नवीन शैक्षणिक सत्राच्या सुरुवातीसह, तुळशोरामजी गायकवाड पाटील अभियांत्रिकी आणि तंत्रज्ञान महाविद्यालयाच्या मूलभूत विज्ञान आणि मानविकी विभागातफें, ०४ सप्टेंबर २०२४ ला प्रथम वर्षाच्या विद्यार्थ्यांचा प्रवेश समारंभ आयोजित करण्यात आला. सदर आयोजनात सर्व विद्यार्थी उपस्थित होते. तर'नवीन विद्यार्थ्यांना नवीन बाताबरणात जुळबून घेण्यास आणि आरामदायक बाटण्यास मदत करणे. त्यांच्यामध्ये संस्थेची नैतिकता आणि संस्कृती बिंबऊन, त्यांना इतर विद्यार्थी आणि प्राध्यापक सदस्यांशी बांध निर्माण करण्यास मदत करणे आणि त्यांना मोठ्या उद्देशाची जाणीव करून देण्याअंतर्गत सदर कार्यक्रमाचे आयोजन करण्यात आले होते.प्रामख्याने शाळेपासन विद्यापीठ/महाविद्यालयीन जीवनातील संक्रमण ही विद्यार्थ्यांच्या जीवनातील सर्वात आव्हानात्मक घटनांपैकी एक आहे. जेव्हा नवीन विद्यार्थी संस्थेत प्रवेश करतात तेव्हा ते विविध विचार, पार्श्वभूमी आणि तयारी घेऊन येतात. सदर कार्यक्रमात प्रमुख पाहुणे, किशोर ठाकरे, व्हाइस -ॲडमिरल, पाणबुडी तज्ञ, अतिथी मा. अजय अग्रवाल, अग्रवाल ग्रुप ऑफ कंपनीजचे संचालक, डॉ.मोहन गायकवाड पाटील, अध्यक्ष, जीपीजीआय, डॉ. मोहन गायकवाड-पाटील, कोषाध्यक्ष, जीपीजीआय, प्रा. गीता पडोळे, गायकवाड-पाटील, संचालक, प्रवेश कश्च, डॉ. पी. एल. नाकतोडे, प्राचार्य डॉ. प्रगती पाटील, उपप्राचार्य डॉ. कुलसचिव डॉ. अमेय खेडीकर, प्रा. अनुप गाडे, रितेश बनपूरकर, डीन आयक्यूएसी डॉ. डीन ॲकॅडेमिक्स, डॉ. संजय आसुटकर, एचओडी, इंसीइं. आदी मान्यवर्शनी विश्वार, कृती, सांधिक कार्य, संघी यांचे महत्त्व आणि पालक आणि शिक्षकांचा आदर करण्यास सांगितले. सदर कार्यक्रमाचे सूत्रसंचालन आणि आभार प्रा. अमिषा मालवीव यांनी मानले, कार्यक्रमाचे आयोजन प्रा. नादिर हुसेन आणि डॉ. ममता टाकरखेडे, मूलभूत विज्ञान आणि मानविको विभागाच्या अधिष्ठाता यांच्या मार्गदर्शनाखाली आयोजित करण्यात आले.

Annual social gathering Utkarsh-2K24 held at TGPCET



The guests during inaugural function of annual social gathering Utkarsh-2K24 at TGPCET.

The annual social gathering Utkarsh-2K24 of Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was celebrated recently. The inauguration of the annual social gathering took place at the hands of ex-ecutive director of Maha-Metro Naresh Gurbani, prin-cipal of St Claret School Father Martin, principal of St Apolis School Dr Vandana Benjamin and RJ Nisha in

the presence of vice-chairman Akash Gaikwad Patil, treas-urer Dr Sandeep Gaikwad, principal Dr P L Naktode, principal Prof Vandana Khante, vice-principal Prof Pragati Patil, staff members and students. On the last day, the prize distribution function took place in presence of Pri-yanka Giripunje, the Mrs India Global Queen, RJ Nisha and others. The event concluded with the vote of thanks.

Media Coverage



INSTAGRAM: https://www.instagram.com/tgpcet1st/





FACEBOOK:

https://www.facebook.com/tgpcet1styear





YOUTUBE:

https://www.youtube.com/@firstyeartgpcet1551



