

TULSIRAMJI GAIKWAD-PATIL College of Engineering and Technology

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)

***Department of
Mechanical Engineering***

**"YANTRIK"
THE DEPARTMENTAL
NEWSLETTER 2022-23**



"Engineers they turn coffee into buildings"

Vision Mission of the Institute



Vision

Vision:

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

Mission:



- 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

Vision Mission of the Department



Vision

Vision:

“To Emerge as a Premier Centre in the Field of Mechanical Engineering Education and Produce Competent Engineers”

Mission:



- To Impart Quality Technical Education Through Effective Teaching - Learning Process.
- To Provide a Better Environment to Encourage Innovation and Entrepreneurship.
- To Strengthen Industry Institute Interaction to Meet the Challenges of Industry and Society Environment.
- To Ensure Overall Development of Students and Staff Members by Inculcating Knowledge and Professional Ethics.



Dr. Vijay Talodikar
HoD, ME

It gives me immense pleasure to lead the department of ME. Our College is one of the premier institutions, unique like a prism reflecting the manifold shades of learning and co-curricular activities. The very motto of our department is to provide quality education. The process of learning is extremely important in life. What you learn, how you learn and where you learn play a crucial role in developing one's intellectual capability, besides career. Hence on behalf of our Mechanical Engineering Department, I welcome you all to ME Department, TGPCET. Along with academic knowledge Mechanical Engineering also trains its Engineers to face the challenges in life by providing many value added courses to enhance their career prospects. The excellent infrastructure, teaching faculty of the best kind ensuring quality education such as interaction among students, parents and staff, along with a Training and Placement Cell ensures a bright future to its students. Thus, we are confident that our Engineers will emerge as assets not only to this institution and to the organization they belong, but also to the Society.



Prof. Ravindra Shende
Chief Editor

It brings me immense joy & pleasure to introduce the Third edition of the departmental newsletter 'YANTRIK' 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 were perfectly planned & executed & 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 YANTRIK has received throughout the year in every possible way from the faculties & Students. I hope the readers of the newsletter have a wonderful reading experience & wish this year's edition too receives your love & support like it has always received till date.



Mr. Nandadeep Dhone
Student Content Editor
Student, Final Year, ME

There is no denying that one day my memory of words will turn vague but every page of this Newsletter will open a box of memory so vivid! Filled with hard work, dedication & limitless time put in making this one book that I will always be grateful to "YANTRIK" will make you fall in love with drawings again! It gives me immense pleasure to bring to you an extraordinary & masterly collection of the events, activities, achievements, highlights at the college presented in the Seventh Annual departmental newsletter "YANTRIK 2022". The newsletter reflects the identity of TGPCET as well as gives the students & teachers a platform to explore their creativity & imagination. This work is a result of the various phases from planning to data collection to segregation to organization to proofreading to designing. I take this opportunity to express my gratitude to our HOD Dr. Prashant Kadu & Mr. R. Shende. Rode for their constant assistance & guidance.

INTERNATIONAL CONFERENCE ON DISRUPTIVE TECHNOLOGY FOR ACHIEVING SUSTAINABLE DEVELOPMENT GOALS-2022



Mechanical Engineering department of Tulsiramji Gaikwad-Patil College of Engineering & Technology had organized a international conference on “Disruptive Technology for Achieving Sustainable Developments Goals for the conference Dr. G K Awari , Head of Automobile Engineering Department Government polytechnics Nagpur invited as key note speaker and session chair. Around more than 50 students presented their papers in two days conference from various region of India.



Industrial visit at Khosla Engineering Industries Ltd, Nagpur



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

Industrial Visit 2022-23



Industrial visit at Industrial Robotic Centre RTMNU



Industrial visit at Lokmat Printing Press, Nagpur



Nagpur, Maharashtra, India
 Unnamed Road, Maharashtra 441108, India
 Lat 20.958812°
 Long 79.013932°
 11/10/22 12:32 PM GMT +05:30

Two days hands on training workshop on Ansys and Creo in association with CAD Center Nagpur. Mr. Vibhav Dhone along with team conducted hands on training session on Creo and Ansys software.

Guest Lecture 2022-23



Mohgaon, Maharashtra, India
 NH 44, Mohgaon, Maharashtra 441108, India
 Lat 20.965831°
 Long 79.020183°
 29/08/22 01:01 PM

Guest lecture on Industry 4.0 by Dr. A Jole
 Associate Professor VNIT,
 Nagpur



Students and subject expert guests during the workshop.

Lecture on energy conservation organised at TGP engg college

The department of mechanical engineering of Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) conducted an expert lecture recently.

The expert lecture started with the welcoming of guests Pramod Nichat, retired Assistant General Manager of Ashok Layland Limited. He shared knowledgeable and useful information about Energy Conservation for understanding the overall idea

of energy conservation. Chairman of GPG Dr Mohan Gaikwad-Patil, treasurer Prof Sandeep Gaikwad, principal Dr Anil Kale appreciated the faculty members for taking this initiative. The lecture was organised under the guidance of the head of mechanical engineering department and coordinated by Dr Yogesh Mahulkar and assistant professor Pramod Bakane.

Guest lecture on Energy Conversion by Mr. Pramod Nichat
 Assistant General Manager
 Ashok Layland
 Nagpur



**Guest Lecture on Intellectual Property
Right and Patent Information System
by Mrs. Chhaya Satpute,
Rajiv Gandhi National Institute of
Intellectual Property Management,
Nagpur.**



Prof. Nitin Kakde felicitated as best performer of the year

Department Achievements



Prof. Dipali Bhoyar felicitated as best performer of the year



Prof. Praful Randive felicitated for receiving best project award from ISTE of the year



Prof. Shubhangi Gondane Felicitated for receiving best paper award at Priyadarshini College of Engineering



Students won First Prize in Paper Presentation in GH Raisoni College of Engineering

Dhoot Electrical Systems Pvt. Ltd.
Harnessing Safety Through Wire

Congratulations!
On the Successful Placement in
Dhoot Transmission

ADESH KOLHE	JAYENDRA HAJARE	NIKKI LILHARE	KUNAL KHELKAR	ANUJ BHALADHARE	VIKKI DIGHORE	RAHUL RAUT
RAJAT NASRE	SAURABH KITEY	PRANAY DAHULE	ADITYA LAKADE	AMOL JADHAV	MRUNAL YEWALE	RUSHABH SATHAWANE
MOHIT DUBEY	NIHAL WANVE	KAUSHIK BAGADE	ROSHAN KAROKAR	RAHUL NAGDAVNE	OMKARESHWAR DAMBHARE	SHUBHAM GHOSIKAR
VIVEK DESHMIKH	SURAJ SURNAR	SURAJ NAGPURE	GOVIND TELANGE	PRAFUL RAUT		

GAIKWAD-PATIL GROUP OF INSTITUTIONS

PURE LITHIUM

Congratulations!
On the Successful Placement in
Pure Energy Pvt. Ltd.

AMARTYA RANDIVE	AMAN DONGARE	NIKKI LILHARE	HARDIK LOHARE	ISHRAN KHAN	KARISHMA GORLE
SAURABH KITEY	KAMESH BAWNE	MOHNISH SUNKINWAR	ROHIT BHAIKARE	SANDEEP BORKAR	RUSHABH SATHAWANE
MOHIT DUBEY	ROSHAN KATHANE	VISHAKHA BUTLEKAR	YOGESH ANDRASKAR	TEJAS SONWANE	

GAIKWAD-PATIL GROUP OF INSTITUTIONS



The students of Tulsiramji Gaikwad-Patil College of Engineering and Technology during their visit to Hingna MIDC.

Mechanical engg students of TGPCET visit Hingna MIDC

The department of mechanical engineering of Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) conducted industrial Visit at Khosla Engineering Industries in Hingna MIDC recently. The industrial visit started with the manager introduction and detailing of different section in Khosla Industries. The students understood the concept, use, operation, automation of vertical

milling (VMC) machine and computer numerical control (CNC) machine, and heat treatment procedure in the job work. Chairman of the college Dr Mohan Gaikwad-Patil, Prof Sandeep Gaikwad, principal Dr Pravin Kale and vice-principal Prof Anup Gade appreciated the industrial visit held under the guidance of Prof Ritesh Banpurkar and coordinated by Prof Praful Randive and Prof Anup Muley.

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Lokmat Times

Tulsiramji Gaikwad Patil College holds industrial visit for students



Students of Department of Mechanical Engineering of Tulsiramji Gaikwad-Patil College of Engineering and Technology during the industrial visit.

Department of Mechanical Engineering of Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) organised an industrial visit for its students to Br Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd, Nagpur. The visit started with the manager and labor officer giving an introduction and details of different sections of the soot girni. They shared useful information about the names of machines and their functions. Students got hands-on experience about different sections. The stu-

dents of the first and second year got motivated by the visit.

Dr Mohan Gaikwad-Patil, chairman of GPG, professor Sandeep Gaikwad, treasurer, GPGI, Dr Geeta Padole, principal, and professor Pragati Patil appreciated the faculty members for organising the industrial visit.

The visit was organised under the guidance of the head of the mechanical engineering department and coordinated by Dr Vijay Talodhikar, Dr Yogesh Mahulkar, and professor Pramir Bakane of the mechanical engineering department.

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Department in Media

पालक, शिक्षक सभा

नागपूर : तुळशीराम गायकवाड-पाटील कॉलेज ऑफ इंजिनीअरिंग अँड टेक्नॉलॉजी, नागपूरच्या मेकॅनिकल विभागाच्यावतीने शिक्षक-पालक मेळावा झाला. अभियांत्रिकीच्या विद्यार्थ्यांच्या शैक्षणिक प्रगतीविषयी यावेळी पालकांशी चर्चा करण्यात आली. विभागप्रमुख रितेश बनपूरकर यांनी पालकांशी संवाद साधला. टीजीपीसीईटी केवळ शैक्षणिकच नव्हे तर विद्यार्थ्यांच्या सर्वांगीण विकासावरही लक्ष केंद्रित करते. महाविद्यालयाच्यावतीने विद्यार्थ्यांना उत्कृष्ट सुविधा पुरविण्यात येतात. त्याव्यतिरिक्त योग्यता, व्यक्तिमत्त्व विकास आणि संवादकौशल्य अशी कौशल्येही त्यांना शिकविण्यात येतात, अशी माहिती त्यांनी पालकांना दिली. विभागाचे प्राध्यापक व इतर कर्मचाऱ्यांनी कार्यक्रम यशस्वी होण्यासाठी प्रयत्न केले.

ISTE and TGPCET student chapter hold 'Tantra Vigyan'

A competition which brought out the creativity and skills of students, 'Tantra Vigyan 2K23', an inter-departmental competition was organized by Indian Society of Technical Education (ISTE) and Tulsiramji Gaikwad Patil College of Engineering and Technology's (TGPCET) student chapter. The guests for the programme were director of Wings Tech,



Bhupendra Ukinkar, senior geotechnical engineer at Monarch Surveyors and Engineering Consultant, Manish Bawankule, MD of Sheshrao Wankhede SSS Girni, Yogesh Chaumal, sales force developer of Price Waterhouse Coopers Suraj Godhmare amongst others. In the prize distribution ceremony the teams who demonstrated exemplary skills, creativity, and problem-solving abilities were awarded. The event was attended by vice-principal Pragati Patil, deans, and other faculty members.



DOM LAB

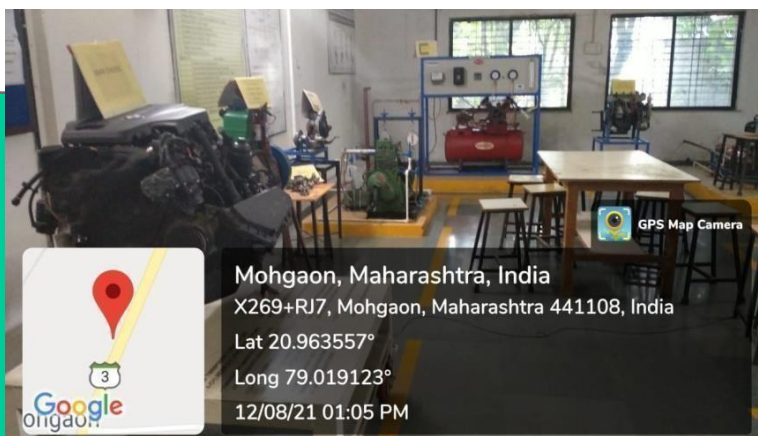
DEPARTMENT LABS



RAC LAB



AUTOMOBILE LAB



I.C ENGINE LAB



AIPLAB



HT LAB



MTRX LAB

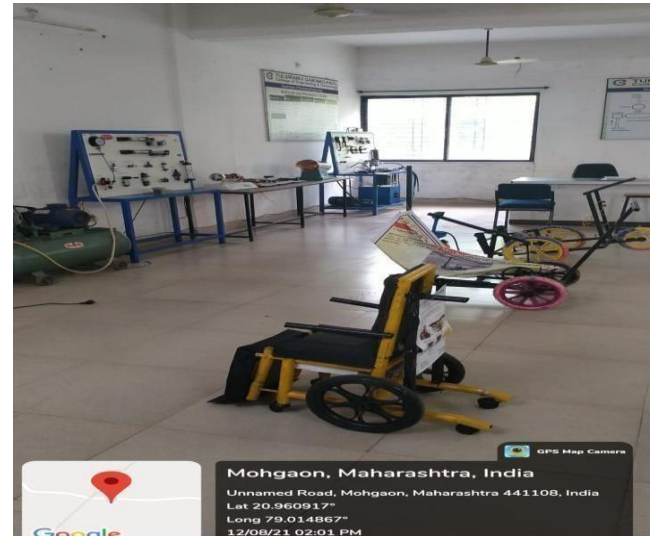


EM-LAB

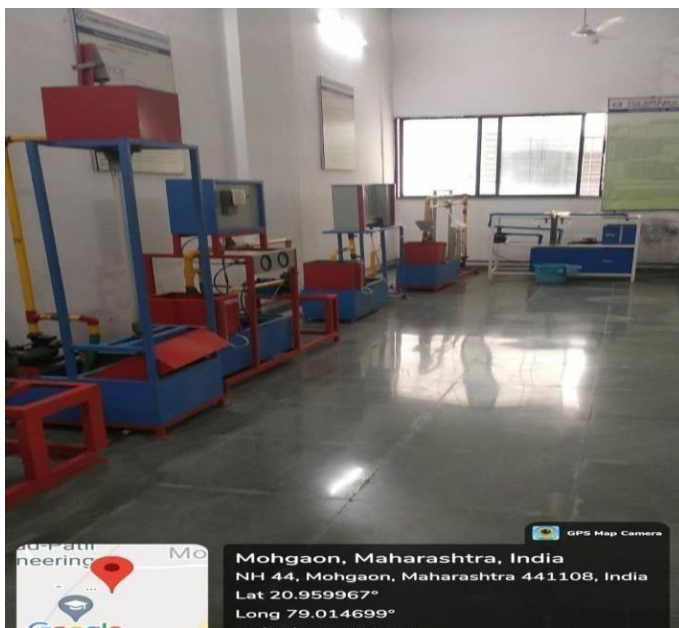


CAD LAB

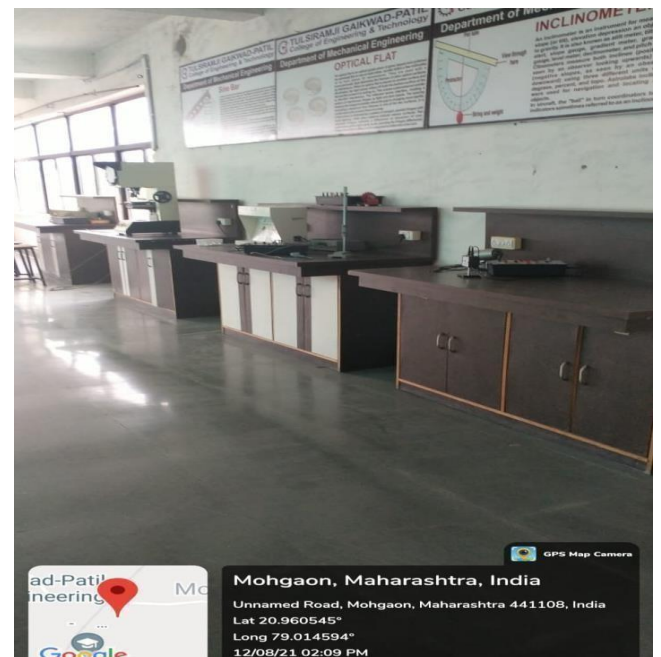
DEPARTMENT LABS



EC-III LAB



HM LAB



MMM LAB



GAIKWAD-PATIL

GROUP OF INSTITUTIONS



B.Tech | B.Arch | M.Tech | MBA | MCA | Diploma | International School | Skill Development



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TULSIRAMJI GAIKWAD-PATIL
College of Engineering & Technology

Mohgaon, Wardha Road, Nagpur - 441108 An ISO 9001:2015 Certified Institution
(Approved by AICTE Recognized by Govt. of Maharashtra & Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

DTE
CODE
4151



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.



Gaikwad-Patil
International
School
Nagpur (INDIA)

CBSE
(Affiliation
No:-
1130978)



EDUCATION EXCELLENCE AWARD
'Most Promising Private Engineering College in Vidarbha'



Winner of 'OUTSTANDING ENGINEERING INSTITUTE (WEST)'
Presented by ABP News 'National Education Awards - 2015'

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Nagpur - 441 108
Maharashtra, India

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