



DTE Code: 4151

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TULSIRAMJI GAIKWAD-PATIL
College of Engineering & Technology

— AN AUTONOMOUS INSTITUTE —



GAIKWAD-PATIL
GROUP OF INSTITUTIONS

ISTE TECHVISION 2024-25



**Indian Society for
Technical Education**

About Institute

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. TGPCET is approved by All India Council for Technical Education (AICTE), New Delhi and the Directorate of Technical Education (DTE), Mumbai, Maharashtra State. The Institute is Accredited with A+ grade (3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL, (NAAC) Bengaluru. It is an Autonomous Institute (UGC Grant Commission) affiliated to RTM Nagpur University, Nagpur. Mechanical Engineering and Electrical Engineering departments have been accredited by the National Board of Accreditation (NBA).

Vision & Mission

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.



Late **Shri. Tulsiramji Gaikwad-Patil**
(1st APRIL 1915 - 18th JULY 1986)

Our Inspiration

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



Mr. Akash Gaikwad-Patil
Vice Chairman, GPG



Dr. Anjali Patil-Gaikwad
President, GPGI



Dr. Sandeep Gaikwad
Treasurer

“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.

“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.

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.

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

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.



"Dreams are not those which we see while sleeping, but dreams are those which do not let us sleep,"



Dr. Pragati Patil
Vice-Principal

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, 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.



EDITOR'S DESK

We feel great pleasure to present yet another issue of our College Magazine “**ISTE TechVision**”. Each issue of our college magazine is a milestone that marks our growth, unfolds our imaginations, and gives life to our thoughts and aspirations. It was overwhelming to see how creative the minds of our students that they kept their inner artists, poets, writing skill alive. College Magazine reflects how the college has been able to live up to its aim, providing quality education to students. We heartily thank our Management for putting faith on us for this creative work.. It was a dream which become a plan and finally today executed & well inaugurated. We would like to extend our special thanks to Principal, Vice Principal's, all HoD's, faculty members, in charges for their overwhelming support. Lastly, I am thankful to all student coordinators for putting up bits of plans together. “Making the simple complicated is common place, making the complicated simple, awesomely simple, that’s creativity.” **We hope you enjoy reading this issue. Happy Reading.....! Prof. B. Wadibhasme and Prof. Kushal Masarkar**



Secretary
Prof. B. Wadibhasme
Computer Science &
Engineering



Jt. Secretary
Prof. Kushal Masarkar
Electronics & Communication
Engineering

About TGPCET-ISTE

The Indian Society for Technical Education is a national, professional, non profit making registered under the Societies Registration Act of 1860 First started in 1941 as the Association of Principals of Technical Institutions (APTI), it was converted into "Indian Society for Technical Education" in 1968 with a view to enlarge its activities to advance the cause of technological education. The major objective of the ISTE is to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industries and other organisations. Being the only national organisation of educators in the field of Engineering and Technology ISTE effectively contributes in various missions of the Union Government. The ISTE at TGPCET was started in the year 2010. The faculty, students and management of our college took keen interest in establishing ISTE student chapter, TGPCET. ISTE has been very active in promoting the ideals for which it was embarked. ISTE conducts various co curricular activities which redress with the changing curriculum and educational processes. It has always tried to improve students' technical prowess, and bolster them to put their learning into practice. Every event organized brings opportunities for students.

ISTE STUDENT CHAPTER SESSION 2024-25

INDEX

Sr. No.	Title	No. of Students Beneficiary
Centralize Event		
01	Engineers Day Celebration by ISTE Students Chapter & Interdepartmental Competitions	300
02	Re-installation of ISTE Students Chapter	150
03	A National Level Event-TECHTANTRA 2K25	400
04	Guest Lecture : Skill Sphere: ISTE Awareness and Career Guidance Program"	150
Guest / Expert Lecture		
05	Expert Lecture on " Data Analytics"	125
06	Guest Lecture on "Advances in Civil Engineering Softwares-BIM".	135
07	Guest Lecture on Aircraft Structure and its Repair Design"	55
08	Guest Lecture on "Animal Models in Cardiovascular Research"	45
09	Guest Lecture on "Standard Practices Followed in IT Companies forEnd-to-End Software Development"	63
10	Expert Lecture: "Role of Electronics and Communication Engineers in Air Force and Allied Industries."	85
11	Expert Lecture: "Developments in Installation capacity, Stages, working of various subsystems of Thermal power generating station"	98
12	Expert Lecture: " Cloud Computing as a Future"	75
13	Expert Lecture: "Intellectual Property Rights (IPR) & Patent, Designs filing"	57
14	Expert Lecture on "3D Printing and Innovative Product Development" Organized by Department of Biotechnology Engineering	52
15	Guest Lecture on "Cotton Biotechnology and Development of Transgenic Cotton "Organised by Department of Biotechnology Engineering	67
16	Guest Lecture on MERN Stack and Cloud Computing Organized by Department of Computer Science and Engineering	83
17	Guest Lecture on " Fundamentals of Software Testing"" organized by Department of Computer Science and Engineering	82
18	Guest Lecture on "JAVA Script" organized by Department of Data Science	118
19	Expert Lecture: "Data Analytics & Artificial Intelligence." Organized by Department of Electronics & Communication	62
20	Expert Lecture: "Python Programming Organized by Department of Electrical Engineering	98

21	Expert Lecture: "How to Become an Entrepreneur Skill Strategies and Action Plan" Organized by Department of Electrical Engineering	60
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23	Expert Lecture: "Career opportunities in Indian Air force" Organized by Department of Aeronautical Engineering	75
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25	Industrial Visit at Site Visit: "CSIR-NEERI campus, Nagpur."	75
26	Industrial Visit at "Air Traffic Controller Air Authority , Nagpur "	72
27	Industrial Visit at "Mitrasena-Biowall Agrihealth Pvt. Ltd., Nagpur "	52
28	Industrial Visit at "Regional Remote Sensing centre ISRO., Nagpur"	67
29	Industrial Visit at "HORIBA India Pvt. Ltd., Nagpur."	35
30	Industrial Visit at "MSEDCL 33kV/11kV Substation at Alagondi, Butibori, Nagpur"	62
31	Industrial Visit at "Click 2 Cloud Pvt. Ltd., Nagpur "	55
32	Industrial Visit at "Mahindra and Mahindra, Nagpur"	62
32	Industrial Visit at Site Visit: to PSK Technologies Pvt. Ltd., by Department of Computer Science and Engineering	40
33	Industrial Visit at Ankur Seeds Pvt. Ltd., Neri , Nagpur by Department of Biotechnology Engineering	75
34	Industrial Visit at Softsense Technoserve Pvt. Ltd., Nagpur by Department of Data Science Engineering	36
35	Industrial Visit at Maharashtra Remote Sensing centre (MRSAC) Nagpur by Department of Electronics and Communication Engineering	65
36	Industrial Visit at HRT – High Rise Transformer, Nagpur, by Department of Electrical Engineering	90
37	Industrial Visit at Xceller Pvt. Ltd., Nagpur Department of Electrical Engineering	49
38	Industrial Visit at Bhandewadi Sewage Treatment Plant (200 MLD), Nagpur, Department of Civil Engineering	62
39	Industrial Visit at KEC International Ltd., Butibori, Department of Mechanical Engineering	48
40	Industrial Visit at AAR Indamer Technics Pvt. Ltd. Nagpur, Department of Aeronautical I Engineering	50
Workshops / Hands on Training		
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42	Two Days Workshop on "Seaborn Data Visualization using Streamlit Python"	49
43	Two Days Workshop on " Web Application using Node JS & Postgre SQL (IOT)."	56

44	Three Days Workshop on Electrical Winding Design with MATLAB & Practical Applications Organized by Department of Electrical Engineering	78
45	Two Days Workshop on Generative AI Organised by Department of Data Science	77
46	Two Days Workshop on Industrial Database Excellence using Oracle by Department of Information Technology	75



ISTE INSTITUTIONAL MEMBER
(The ISTE at TGPCET was established in the year 2010.)



ISTE STUDENTS CHAPTER
(The ISTE at TGPCET was established in the year 2011)

Vision:

ISTE's vision is that all educators are empowered to harness technology to accelerate innovation in teaching and learning, and inspire learners to reach their greatest potential.

Mission:

ISTE inspires educators worldwide to use technology to innovate teaching and learning, accelerate good practice and solve tough problems in education by providing community, knowledge and the ISTE Standards, a framework for rethinking education and empowering learners.

Aim:

To provide quality training programs to teachers and students of our institution to update their knowledge and skills in their fields of activity and to assist and contribute in the production and development of top quality professional engineers and technicians needed by the society, industry and other organizations.

Objective:

- To enlarge its activities to advance the cause of quality technical education in the college.
- To organize Entrepreneurship development programmes.
- To organize Lectures on Moral Values and Ethics
- To organize Seminar/ workshop, brain-storming sessions and group activities.
- To provide training in public speaking.
- To arrange visits to industry, work sites for more industrial exposure.
- To prepare the students for leadership and develop personality.

INSTITUTIONAL MILESTONES



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



**ISTE Best Student Chapter
Award- 2021**



**ISTE Best Knowledge
Center Award - 2022**



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



**Best Women Teaching
Faculty Award - 2022**



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



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



**Institute signing MoU
with
EduSkill**



INSTITUTIONAL MILESTONES




Received AICTE EduSkills Academic Credit for Internship Awards-2024 at the hands of Hon'ble Dr. T. G. Sitharam, Chairman AICTE, New Delhi




Received AICTE EduSkills 61st Rank throughout the country for Highest Number of Internship- 2024 at the hands of Hon'ble Dr. Satya Ranjan Biswal, COO, Eduskills Foundation




Received AICTE Principal Excellence Award-2024 (Western Region) at the hands of Hon'ble Dr. More Ramulu Advisor-I, AICTE, New Delhi.




Received AICTE Best Performing Institute Award-2024 (Western Region) at the hands of Hon'ble Dr. Buddha Chandrasekhar, Chief Coordinating Officer (COO), AICTE New Delhi



World Book of Records London Certificate of Participation



Sanctioned Grant of Rs. 90 Lakh to Set-up AICTE IDEA-Lab



**Mechanical Engineering
Electrical Engineering
Civil Engineering
Electronics & Communication Engineering receives NBA Accreditation**



TGPCET is recorded in World Book of London for Highest Internship




Awarded by AA+ Rank by Careers 360 of India

ISTE FACULTY COMMITTEE MEMBER



Chairman

Prof. Ritesh Banpurkar
Mechanical Engineering



Member

Prof. B. Wadibhasme
Computer Science &
Engineering



Member

Prof. Kushal Masakar
Electronics & Communication
Engineering



Member

Prof. Divyani Harpal
Civil Engineering



Member

Prof. Praful Randive
Mechanical Engineering



Member

Prof. Praful Ghadge
Electrical Engineering



Member

Ms. Prajakta Arjapure
Biotechnology Engineering

ISTE STUDENTS CHAPTER COORDINATOR



Bhavesh Katre
CSE Dept



Sujal Mirche
Civil Engineering



Sakshi Dahake
IT Dept



Yash Dhonde
Mech Dept



Nikhil Tembhurne
ECE Dept



Aryan Hatwar
CSE Dept



Vedant Sawarkar
AE Dept



Mr. Ashish Hazare
ECE Dept



Purvesh Pathare
DS Dept



Harshank Kohad
EE Dept



Sonal Borkar
BT Dept



Palak Harinkhede
AI & ML Dept

STUDENTS ACHIEVEMENTS / AWARDS



Felicitations of Winners of Events of Engineer's Day Celebrations



Felicitations of Winners of National Level Event TECHTANTRA 2K25 by Dr. P. L. Naktode, Principal, Dr. Snehal Abhyankar, Dean Student Council, Prof. Ritesh Banpurkar, Dean IQAC



ISTE Students Membership Certificate Distribution by Dr. Rajeshree Raut, Ex. Council Member ISTE, New Delhi and Asso. Professor & Dean CA, GEC, Nagpur

ISTE FACULTY MEMBERSHIP DETAILS

<u>Sr.No</u>	Name of the Faculty	Branch	ISTE Membership No.
1	Dr. Kalprit Kaurase	Aeronsutical Engineering	LM79032
2	Prof. Shrikant Kathwate	Aeronsutical Engineering	LM101790
3	Prof. Vishwjeet Ambade	Aeronsutical Engineering	LM113087
4	Prof. Anup Bagade	Biotechnology	LM-141356
5	Prof. Prajakta Arjapure	Biotechnology	LM141378
6	Prof. Pundlik Sorte	Biotechnology	LM141380
7	Prof. Anuradha Khade	Biotechnology	LM141381
8	Dr. Rohit Kalnake	Biotechnology	LM141382
9	Prof. Abhimanyu Dutonde	Computer Science and Engineering	LM-141383
10	Dr. Pragati Patil	Computer Science and Engineering	LM94699
11	Prof. B. Wadibhasme	Computer Science and Engineering	LM141384
12	Prof. Ashwini Mahajan	Computer Science and Engineering	LM-141385
13	Prof. Anita Yadav	Computer Science and Engineering	LM-141386
14	Prof. Shubhkirti Bodkhe	Computer Science and Engineering	LM141387
15	Prof.Komal Naxine	Computer Science and Engineering	LM141388
16	Prof. Nilesh Mhaiskar	Computer Science and Engineering	LM141389
17	Dr.Prashant Thakre	CSE (Data Science)	LM31035
18	Prof.Dhiraj Karwatkar	CSE (Data Science)	LM105942
19	Dr. Sandeep Gaikwad	Civil Engineering	LM-40372
20	Dr. Aasif Baig	Civil Engineering	LM-141343
21	Dr. Snehal Abhyankar	Civil Engineering	LM141350
22	Dr. Amey Khedikar	Civil Engineering	LM-94730
23	Prof. Sanjay Bhadke	Civil Engineering	LM-1917
24	Prof. Priyanka Petkar	Civil Engineering	LM-94152
25	Prof. Divyani Harpal	Civil Engineering	LM141344

26	Prof. Nayana Sangole	Civil Engineering	LM141345
27	Prof. Komal Meshram	Civil Engineering	LM141346
28	Prof. Mrunali Makode	Civil Engineering	LM141347
29	Prof. Hitesh Mishra	Civil Engineering	LM141349
30	Dr.Pratik Ghutke	Electrical Engineering	LM113094
31	Prof. Radharaman Shaha	Electrical Engineering	LM141392
32	Prof. Chetan Jambhulkar	Electrical Engineering	LM141393
33	Prof. Praful Ghadge	Electrical Engineering	LM141394
34	Prof. Vaishali Malekar	Electrical Engineering	LM113095
35	Prof. Pritesh Mhaikar	Electrical Engineering	LM141395
36	Prof. Kunal Sawalakhe	Electrical Engineering	LM75319
37	Dr. Sanjay Asutkar	Electronics and communication	LM7506
38	Prof. Rohini Pocchi	Electronics and communication	LM94707
39	Dr. Bharati Sayankar	Electronics and communication	LM141351
40	Prof. Dipak Bhojar	Electronics and communication	LM53204
41	Dr. Pravin Tajane	Electronics and communication	LM82648
42	Prof. Rahul Dhature	Electronics and communication	LM84597
43	Prof. Sandeep Takare	Electronics and communication	LM66518
44	Prof. Suraj Mahajan	Electronics and communication	LM141352
45	Prof. Kushal Masalkar	Electronics and communication	LM55203
46	Prof. Pallavi Rokade	Electronics and communication	LM141354
47	Prof. Mayuri Harde	Electronics and communication	LM141355
48	Dr. Vijay Talodikar	Mechanical Engineering	LM113085
49	Prof.Anuj Mule	Mechanical Engineering	LM132233
50	Prof.Dipali Bhojar	Mechanical Engineering	LM116299

51	Prof. Gaurav Nagdeve	Mechanical Engineering	LM16302
52	Prof. Ritesh Banpurkar	Mechanical Engineering	LM16295
53	Dr. Vinay Kumar Gadpa	Mechanical Engineering	LM141396
54	Prof. Praful Randve	Mechanical Engineering	LM82224
55	Prof. Pramir Bakane	Mechanical Engineering	LM12233
56	Dr. Anup Gade	Information Technology	LM66504
57	Prof. Abhay Rewatkar	Information Technology	LM94183
58	Prof. Nilesh Nagrale	Information Technology	LM141397
59	Prof. Nadir Husain	Science & Humanities	LM94164

ISTE 2024-25 STUDENTS MEMBERSHIP DETAILS

Sr. no.	Session	No. of Students Membership
1	2022-23	117
2	2024-25	140

Sr. no.	Full Name	Branch	Membership ID
1	ACHAL PRAMOD ASUTKAR	CSE	MH177001591
2	APOORVA KAILAS BAYASKAR	CSE	MH177001592
3	ARYA RAJU INGOLE	CSE	MH177001593
4	DIVYA RAVINDRA GAWANDE	CSE	MH177001594
5	JYOTI GANESH KSHIRSAGAR	CSE	MH177001595
6	KALYANI RAMKRUSHNA BAWANKULE	CSE	MH177001596
7	KHUSHI MADHAO BOKADE	CSE	MH177001597
8	MANSI MAHESH DHARGAVE	CSE	MH177001598
9	PRACHI YOGESHWAR TAJNE	CSE	MH177001599
10	PRADNYA DHARMENDRA GAJBHIYE	CSE	MH177001600
11	PRATIKSHA RAMESHWAR CHANDANKHEDE	CSE	MH177001601
12	SANIKA BAWANE	CSE	MH177001602
13	SANIYA ASHISH CHOUDHARY	CSE	MH177001603
14	SAYALI GAJANAN BHUJADE	CSE	MH177001604
15	SHARVARI AVINASH KAPSE	CSE	MH177001605
16	SHREYA MAHENDRAKUMAR IKHAR	CSE	MH177001606
17	SHRUTIKA GAJANAN DANDALE	CSE	MH177001607
18	SHWETA JAGDISH MOHITKAR	CSE	MH177001608
19	SIDDHI SHYAM CHOBE	CSE	MH177001609
20	SNEHANJALI PRADIP BASESHANKAR	CSE	MH177001610

21	ASTHA PINTU DEAIWALKAR	AIML	MH177001611
22	DIPTI DILIP FARKADE	AIML	MH177001612
23	DOLLY RAMESH DIWATE	AIML	MH177001613
24	KALYANI DNYANESHWAR KOSULKAR	AIML	MH177001614
25	KHUSHI SHIVLAL PARIHAR	AIML	MH177001615
26	PALAK SURENDRA HARINKHEDE	AIML	MH177001616
27	RITIKA PANDURANG SHINDEMESHAM	AIML	MH177001617
28	RITISHA SUNIL SAWARBANDHE	AIML	MH177001618
29	SANIKA HARICHANDRA GALANDE	AIML	MH177001619
30	GANDHARV RAJESH CHAURIWAR	AIML	MH177001620
31	KRISH AJAY KHODVE	AIML	MH177001621
32	NISHANK RAMESHRAO DHAGE	AIML	MH177001622
33	ROHAN RAJESH TIMASE	AIML	MH177001623
34	SURAJ DIGARAJ BADOLE	AIML	MH177001624
35	VIPUL DNYANESHWAR KALAMBHE	AIML	MH177001625
36	ATITHI VINOD RAMTEKE	DS	MH177001626
37	BHUMIKA SURENDRA KUBDE	DS	MH177001627
38	DHANASHREE ANNAJI BHOYAR	DS	MH177001628
39	DHANSHREE JITENDRA DHANORKAR	DS	MH177001629
40	NAMRATA VIJAY NAROTE	DS	MH177001630
41	SACHIKA SANT BAHADUR SINGH	DS	MH177001631
42	SANYUKTA DINESH LONARE	DS	MH177001632
43	SHRADDHA SATISHRAO MAHAJAN	DS	MH177001633
44	SHREYA SATISHRAO MAHAJAN	DS	MH177001634
45	VEDIKA NITIN RANDIVE	DS	MH177001635
46	VISHAKHA ARUN SATONE	DS	MH177001636
47	ARYAN MANOJ DESHMUKH	DS	MH177001637
48	OM SURAJ KSHIRSAGAR	DS	MH177001638

49	ROHIT ANIL CHUTE	DS	MH177001639
50	SHASHANK AJAY NAGOSE	DS	MH177001640
51	DEVYANI KISHOR SHENDE	IT	MH177001641
52	DIWYA DNYANESHWAR DHOKE	IT	MH177001642
53	DUDHESHWARI VIJAY CHAMATKAR	IT	MH177001643
54	GAURI DHAMAJI MOREY	IT	MH177001644
55	GAYATRI RAJU DADGELWAR	IT	MH177001645
56	GAYATRI SAMBHAJI CHAVARE	IT	MH177001646
57	HIMANSHI DEVIDAS WANJARI	IT	MH177001647
58	KRUTIKA ANIL GANVIR	IT	MH177001648
59	NANDINI VINOD DONGARE	IT	MH177001649
60	PALLAVI BANDU RAMTEKE	IT	MH177001650
61	PRIYANSHI SURAJ LANJEWAR	IT	MH177001651
62	SHWETA SUDHAKAR RUPAVANE	IT	MH177001652
63	SIDDHI GOVIND UJAWANE	IT	MH177001653
64	SUPRIYA NAMDEV KADAV	IT	MH177001654
65	VAISHNAVI PRAKASH URKUDE	IT	MH177001655
66	DISHA CHAMPATRAO JOGE	AE	MH177001656
67	KSHITIJA ARUNRAO RATNAPARKHI	AE	MH177001657
68	RENUKA GANESH MOREY	AE	MH177001658
69	SNEHA MANOHAR DESHMUKH	AE	MH177001659
70	SORA KHIMESH ASWALE	AE	MH177001660
71	SURAKSHA JAYDEO MANWATKAR	AE	MH177001661
72	YOGITA RAJKUMAR DHORE	AE	MH177001662
73	ARYAN RAJKUMAR MESHRAM	AE	MH177001663
74	BHAVESH KHAPEKAR	AE	MH177001664
75	SAJID SABBIR SHEIKH	AE	MH177001665
76	DURGA GAJANAN PATHADE	BT	MH177001666
77	KANCHAN PARMESHWAR UIKE	BT	MH177001667

78	SHRADDHA SACHIN RANGARI	BT	MH177001668
79	SHRUNKHA ABHAY DEOGADE	BT	MH177001669
80	SHRUTI VINOD GHUGAL	BT	MH177001670
81	SRUSHTI DILIP CHOPADE	BT	MH177001671
82	VAISHNAVI GANESH BARAI	BT	MH177001672
83	ADITYA NAGNATH SURYAWANSHI	BT	MH177001673
84	PARTH BHASKAR DAWANGE	BT	MH177001674
85	PRATHAM MANOJ BHANDULA	BT	MH177001675
86	BHARTI MEWALAL SAHU	EE	MH177001676
87	JANVI PARASLAL BASENE	EE	MH177001677
88	PAYAL DEBILAL BOPCHE	EE	MH177001678
89	PUJA RUPCHAND KORE	EE	MH177001679
90	SAYALI PRASHANT DHAKANE	EE	MH177001680
91	SAYALI RAMESH CHAVHAN	EE	MH177001681
92	SHREYA MAMULKAR	EE	MH177001682
93	SHRUSHTI NITIN MANDAOGADE	EE	MH177001683
94	SNEHAL VINOD PACHGADE	EE	MH177001684
95	ANKIT PRAKASH KAMBLE	EE	MH177001685
96	BHUSHAN OMDAS PATHODE	EE	MH177001686
97	KHUSHWANT RAMESH RATHOD	EE	MH177001687
98	KUNAL VIJAY TIMADE	EE	MH177001688
99	MAYUR GORAKH SHELAR	EE	MH177001689
100	ROHAN DEVIDAS CHIKANKAR	EE	MH177001690
101	ACHAL VILAS MESHAM	ECE	MH177001691
102	ANUSHKA ARVIND MANDAVE	ECE	MH177001692
103	ARYA ANIL KHAIRKAR	ECE	MH177001693
104	AVANTIKA KRUSHNAKUMAR WANKHADE	ECE	MH177001694
105	DNYANADA HEMRAJ YELNE	ECE	MH177001695
106	KRUPALI DATTATRAY PANDE	ECE	MH177001696
107	NEHA KEWALRAM RAUT	ECE	MH177001697

108	NIYUKTI SUBHASH KAKDE	ECE	MH177001698
109	REVATI PRAFULLRAO SALODE	ECE	MH177001699
110	SALONI ONKAR WASNIK	ECE	MH177001700
111	SAMIKSHA GULABRAO CHIPDE	ECE	MH177001701
112	SANIYA EKNATH WASNIK	ECE	MH177001702
113	SHREYA BHARAT RAMTEKE	ECE	MH177001703
114	SHREYA LAXMAN DESHMUKH	ECE	MH177001704
115	SURUCHI NARESH GAIDHANI	ECE	MH177001705
116	HIMANI RAHULDEV BOMBARDE	ME	MH177001706
117	ARYAN RAVINDRA SHEMBEKAR	ME	MH177001707
118	AYUSH VINODRAO SARNAIK	ME	MH177001708
119	BHAUMIK GAJENDRA JACHAK	ME	MH177001709
120	DARSHAN RUPESH TRIPADWAR	ME	MH177001710
121	DIKSHANT VASANTA SUKHDEVE	ME	MH177001711
122	GAURAV INDRAKUMAR MOHOD	ME	MH177001712
123	GAURAV MADHORAO MATHANIKAR	ME	MH177001713
124	JAY PRADHAN	ME	MH177001714
125	SHANTANU NAGOSE	ME	MH177001715
126	SUMIT RAUT	ME	MH177001716
127	UMANG PATIL	ME	MH177001717
128	MANTHAN SURENDRA ZADE	ME	MH177001718
129	MOHIT MAROTI DHANKASAR	ME	MH177001719
130	POORVESH UMAKANT DANGORE	ME	MH177001720
131	DHANASHRI KISHORRAO NIMBHEKAR	CE	MH177001721
132	KALPANA RAJKUMAR LANJE	CE	MH177001722
133	KIRAN OMENDRA KATRE	CE	MH177001723
134	SANIYA MAROTI THOOL	CE	MH177001724

135	SAYALI RAJESH DHOK	CE	MH177001725
136	OM AJAY CHAWARE	CE	MH177001726
137	PARAS SUNIL DHOBE	CE	MH177001727
138	PRANAV VINAYAK PATIL	CE	MH177001728
139	PRATIK BHAUSAHEB NAGARE	CE	MH177001729
140	SAMARTH NILESH SHIRBHATE	CE	MH177001730

Engineers Day Celebration by ISTE Students Chapter & Interdepartmental Competitions

Objective:

Celebrating Engineers Day by recognizing engineers' contributions, encouraging student innovation through competitions, and honoring the ISTE Students Core Committee.

About the Program:

On 19th September 2024, the ISTE Students Chapter at Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur, celebrated Engineers Day with enthusiasm to honor engineers' contributions and promote technical creativity. Chief Guest Dr. Sharad A. Nimbalkar, Former Vice-Chancellor of Dr. PDKV, Akola, delivered an inspiring address on engineering's role in shaping the future. Over 300 students participated in interdepartmental competitions, including Project/Drone Design, Waste-o-Craft, Coding, and Quiz Xplore, showcasing innovation, sustainability, and technical skills.

Outcomes:

1. Enhanced awareness of the role and contributions of engineers in nation-building among participants.
2. Fostered creativity, technical innovation, and sustainability through various competitions.
3. Provided students a platform to demonstrate and hone their technical and problem-solving skills.
4. Acknowledged and motivated the ISTE Students Core Committee for their efforts in organizing successful events.
5. Strengthened the culture of collaboration and technical excellence among students and faculty.



Inauguration of Event by "Chief Guest Dr. Sharad A. Nimbalkar, Former Vice-Chancellor, Dr. Punjabrao Krishi Vidyapeeth Akola



Felicitation of Dr. Nimbalkar and prize distribution by Dr. Mohan Gaikwad-Patil.



Judging Project Competitions



Prize and Certificates Distribution to Winners

Re-installation of ISTE Students Chapter

Objective:

Reinstalling the ISTE Students Chapter to foster innovation, promote cross-departmental collaboration, and support students' professional and academic growth.

About the Program:

The ISTE Students Chapter at Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur, was re-installed on 19th September 2024, benefiting over 150 students. The event was graced by Chief Guest Dr. Sharad Nimbalkar, Former Vice-Chancellor of Dr. PDKV, Akola, along with Chairman Dr. Mohan Gaikwad Patil, Principal Prof. P.L. Naktode, and other dignitaries. The newly elected ISTE Students Committee was introduced to encourage active participation and departmental collaboration.

Outcomes:

1. Successfully renewed the ISTE Students Chapter, reinforcing its role in driving innovation and skill development among students.
2. Introduced the newly elected Students Committee, fostering leadership and cross-departmental collaboration.
3. Reaffirmed the commitment to academic and professional growth, ensuring students' readiness for industry challenges.
4. Strengthened the engagement and participation of students and faculty in ISTE initiatives.



Welcome Dr. S.A. Nimbalkar, Ex-VC, Dr. PDKV Akola, by ISTE student.



Inauguration by Chief Guest Dr. Sharad A. Nimbalkar, Ex-VC, Dr. PDKV Akola.



ISTE Chapter reinstalled in presence of Dr. Sharad Nimbalkar, Ex-VC, Dr. PDKV.



Felicitation of Dr. Sharad A. Nimbalkar by Chairman Dr. Mohan Gaikwad-Patil.

A National Level Technical Event TECHTANTRA- 2025

Objective:

TECHTANTRA 2K25 aimed to enhance technical skills, foster innovation, encourage collaboration, and bridge theory with practice through nationwide competitive events.

About the Program:

TECHTANTRA 2K25, a National Level Technical Event organized by the ISTE Cell at TGPCET, Nagpur, provided a dynamic platform for students to showcase their skills and innovations. Inaugurated with a ceremonial lamp lighting and address by Principal Dr. P. L. Naktode, the event featured keynote speaker Dr. Sanjay Balamwar (MRSAC) and Guest of Honour Mr. Akshay Pachpor (Logprogma Software). Over 400 students participated in competitions like Project Display, Poster Presentation, Coding Challenge, and Circuit Puzzle, with 112 entries from top institutions nationwide.

Outcomes:

1. Skill & Innovation Showcase: Students demonstrated enhanced skills in coding, circuit design, project execution, and scientific communication through innovative projects and creative solutions.
2. Collaboration & Recognition: The event fostered interdisciplinary networking while motivating participants through trophies, cash prizes, and certificates.
3. Outcome-Based Education: Activities were aligned with Program Outcomes (POs) such as problem analysis, solution design, and modern tool usage, supporting curriculum goals.



Inauguration by Dr. Sanjay Balamwar, a scientist at Maharashtra Remote Sensing Center.



Inauguration of Project Competition by Chief Guest Dr. Sanjay Balamwar



Inauguration of Poster Competition by Dr. Snehal Abhyankar, Dean SDC TGPCET.



Group photo of all event winners

Guest Lecture : Skill Sphere: ISTE Awareness and Career Guidance Program”

Objective:

The program aimed to introduce ISTE, promote technical education and career planning, enhance industry awareness, build key skills, and recognize student participation with ISTE Membership Certificates.

About the Program:

The ISTE Awareness and Career Guidance Program at TGPCET, Nagpur, introduced first-year students to ISTE's benefits and professional development. Organized by the ISTE Students Chapter, the event featured a guest lecture on career planning, distribution of ISTE membership certificates, and active participation from 160 students. Highlights included a welcome by ISTE President Bhavesh Katre, a motivational prayer, and guest felicitation by Prof. B. Wadibhasme, who also delivered the Vote of Thanks. The session inspired students to pursue professional growth and networking opportunities.

Outcomes:

The program significantly impacted students by enhancing awareness of ISTE, providing career guidance, promoting professional development, encouraging active participation, and recognizing their involvement with ISTE Membership Certificates.



Expert Dr. Rajeshree Raut Delivering the Lecture to the Students



Expert Dr. Rajeshree Raut Delivering the Lecture to the Students



ISTE Students Membership Certificate Distribution



Felicitation of Expert Dr. Rajeshree Raut by Memento a Token of Love

Expert Lecture on “Data Analytics”

Objective:

The session aimed to equip students with practical knowledge of Data Analytics, industry tools, and career opportunities in the evolving tech landscape.

About the Program:

On 25th November 2024, the CSE Department of TGPCET, Nagpur, organized a guest lecture on Data Analytics under the ISTE and CSI Chapters. Conducted by Mr. Aniruddh Kalbande, Director of Fireblaze Technologies, the session saw participation from 125 students. Key topics included data collection, tools like Python and R, real-world applications, and career opportunities in the field.

Outcomes:

1. Students gained a thorough understanding of Data Analytics, including its significance, tools, and applications.
2. Enhanced awareness of the role of Data Analytics in solving real-world problems across various industries.
3. Exposure to industry-relevant tools such as Python, R, and Data Visualization platforms, fostering skill development.
4. Students were introduced to emerging career opportunities and future trends in the field of Data Analytics.



Welcome of Expert
Mr. Aniruddha Kalbande, Developer & Director,
Fireblaze Technology Pvt. Ltd.



Delivering Lecture by Expert Mr. Aniruddha Kalbande,
Developer & Director, Fireblaze Technology Pvt. Ltd.

Guest Lecture on “Advances in Civil Engineering Softwares-BIM”.

Objective:

The session aimed to provide students with insights into Building Information Modelling (BIM), its applications in construction, related software tools, career opportunities, and future trends.

About the Program:

On 13th November 2024, the Civil Engineering Department of TGPCET, Nagpur, in collaboration with ISTE, IWWA, and ARTEX Forum, organized a guest lecture on "Advances in Civil Engineering Softwares - BIM" for senior students. Conducted by BIM experts Mr. Sarang Pimpalkar and Mr. Nikhil Dhawale, the session covered BIM fundamentals, software tools, career opportunities, and future trends in the construction industry.

Outcomes:

1. Students gained a comprehensive understanding of BIM, including its process, benefits, and limitations.
2. Enhanced awareness of the role of BIM in modern construction, from planning to maintenance.
3. Students were introduced to industry-relevant BIM tools and their practical applications.



Welcome of Expert Mr. Sarang Pimpalkar by Students



Expert Mr. Sarang Pimpalkar delivering Expert lecture to the students

Guest Lecture on “Animal Models in Cardiovascular Research”

Objective

The session aimed to educate students on the use of animal models in cardiovascular research, covering disease study, therapeutic development, clinical relevance, and ethical considerations.

About the Program

On 24th August 2024, the Biotechnology Department at TGPCET, Nagpur, hosted a guest lecture under the ISTE Chapter on "Animal Models in Cardiovascular Research" by Dr. Gaurang Deshpande. The session covered the role of animal models in studying heart diseases, therapeutic development, clinical relevance, and ethical research practices.

Outcomes

1. Students gained a comprehensive understanding of BIM, including its process, benefits, and limitations.
2. Enhanced awareness of the role of BIM in modern construction, from planning to maintenance.
3. Students were introduced to industry-relevant BIM tools and their practical applications.



Inauguration Event & Welcome of Guest Dr. Gaurang Deshpande



Glimpses of Guest Dr. Gaurang Deshpande with Students.

Guest Lecture on “Standard Practices Followed in IT Companies for End-to-End Software Development”

Objective

The session aimed to familiarize students with industry-standard software development practices, methodologies, and career readiness in the IT sector.

About the Program

On 27th July 2024, the CSE (Data Science) Department at TGPCET, Nagpur, hosted a guest lecture under the ISTE Chapter by Mr. Smit Chaudhary from Tech Mahindra on "Standard Practices in End-to-End Software Development," covering SDLC stages, Agile/DevOps methods, coding standards, testing, deployment, and security practices.

Outcomes

1. Students gained a practical understanding of the standard practices followed in IT companies for software development.
2. Improved awareness of the methodologies and procedures used in real-world IT projects.
3. Insights into the importance of maintaining coding standards, security, and collaboration in software development teams.



Mr. Smit Chaudhary, Technical Architect at Tech Mahindra, Nagpur



Expert Mr. Smit Chaudhary, Technical Architect at Tech Mahindra, Nagpur. Delivering Lecture.

Expert Lecture: “Role of Electronics and Communication Engineers in Air Force and Allied Industries.”

Objective

The session aimed to equip students with knowledge of aircraft electronic systems, radar and communication technologies, and inspire careers in aviation, avionics, and defense sectors.

About the Program

On 31st July 2024, the ECE Department at TGPCET organized an expert lecture by Wing Commander Vinay Sagdeo (Retd.), IAF, under ISTE and IE(I) Chapters. He shared insights on aircraft electronics, radar systems, communication technologies, and career opportunities in aviation, avionics, and the Air Force.

Outcomes

1. Students gained valuable insights into the fields of aviation and avionics, including career opportunities.
2. Enhanced knowledge of electronic equipment design and testing in aircraft systems.
3. Improved understanding of radar systems, communication technologies, and electronic warfare devices.



Welcome of Expert Wing Commander Vinay Sagdeo (Retd.), Indian Air Force.



Expert Wing Commander Vinay Sagdeo (Retd.), Indian Air Force delivering the lecture

Expert Lecture: “Developments in Installation capacity, Stages, working of various subsystems of Thermal power generating station”

Objective

To provide students with practical insights into thermal power plant operations, subsystems, and emerging technologies bridging theory and real-world applications.

About the Program

On 13th August 2024, the Electrical Engineering Department at TGPCET organized a guest lecture by Mr. Naval Shirish Damle on thermal power plant subsystems, stages, and operations, offering practical insights under IE(I) and ISTE Chapters.

Outcomes

1. Students gained enhanced practical knowledge of the working principles and operations of thermal power plants.
2. Awareness of the latest technological developments and tools used in power generation was increased.
3. Real-world case studies provided students with a deeper understanding of the theoretical and practical necessities in power plant operations.



Welcome of Expert Mr. Naval Shirish Damle, Deputy Executive Engineer at MAHAGENCO-KTPS, Koradi. By Prof. Pooja Yewale



Expert Mr. Naval Shirish Damle delivering the lecture

Expert Lecture: “ Cloud Computing as a Future”

Objective

To provide students with an in-depth understanding of Cloud Computing, its industry applications, future trends, and real-world insights from an expert.

About the Program

On 18th July 2024, the Department of IT at TGPCET, Nagpur, organized a guest lecture on “Cloud Computing as a Future” under ISTE Students Chapter. Mr. Sumit Mahakalkar, Director of The Cloud Intellect Pvt. Ltd., shared insights on Cloud Computing concepts, real-world applications, industry expectations, and career opportunities in the IT sector.

Outcomes

1. Students gained a deeper understanding of Cloud Computing technologies and their applications in real-world scenarios.
2. Awareness of recent trends and emerging technologies in the IT industry was enhanced.
3. Students learned about the role of Cloud Computing in improving efficiency and scalability for multinational corporations.



Welcome Mr. Sumit Mahakalkar,
Director



Group photos with Students , Faculty &
Expert Cloud Intellect Pvt. Ltd., Nagpur

Expert Lecture: “Intellectual Property Rights (IPR) & Patent, Designs filing”

Objective

To provide an overview of IPR, its types, patent process, industry applications, and challenges like infringement and piracy.

About the Program

On 5th August 2024, the Department of Engineering at TGPCET, Nagpur, organized a guest lecture on IPR, Patents, and Design Filing by Dr. Bharat Suryawanshi, Assistant Controller of Patents and Design. The session covered the importance and types of IPR, the patent filing process, industrial applications, and challenges like infringement and piracy.

Outcomes

1. Participants gained key insights into IPR, its types, and significance across industries.
2. The session covered the patent filing process and its role in protecting innovations.
3. Awareness was raised on IPR challenges like infringement and ways to address them.
4. Attendees learned how IPR fosters innovation and safeguards intellectual creations.



Delivering lecture by expert Dr. Bharat Suryawanshi, Assistant Controller of Patents and Design, Nagpur



Students Interaction with Expert Dr. Bharat Suryawanshi

Expert Lecture on “3D Printing and Innovative Product Development” Organized by Department of Biotechnology Engineering

Objective

To introduce students to 3D printing fundamentals, applications in healthcare, innovation, entrepreneurship, and interdisciplinary problem-solving using modern fabrication tools.

About the Program

On 11th January 2025, TGPCET Nagpur hosted a guest lecture on “3D Printing and Innovative Product Development” by Dr. A. M. Kuthe from VNIT. He discussed additive manufacturing, biomedical applications, and startup opportunities, sharing real-life case studies like a 3D-printed TMJ implant. The session inspired students toward interdisciplinary research, innovation, and entrepreneurship in digital manufacturing.

Outcomes

1. Students gained insights into 3D printing technologies and their real-world applications in healthcare and engineering.
2. The session encouraged research, innovation, and entrepreneurship in additive manufacturing.
3. It promoted interdisciplinary learning and inspired careers in med-tech and digital fabrication.



Expert Dr.A. M. Kuthe, Professor and Incharge of Biomedical Engineering and Technology (incubation) Centre (BETIC), VNIT, Nagpur. Delevering the Session.



Group Photo of Expert Dr.A. M. Kuthe with faculty and Students

Guest Lecture on “Cotton Biotechnology and Development of Transgenic Cotton ”Organised by Department of Biotechnology Engineering

Objective

To provide students with insights into cotton biotechnology, including GM crops, Agrobacterium-mediated gene transfer, Cry proteins, and sustainable agricultural practices, while fostering ethical and scientific awareness.

About the Program

The Department of Biotechnology at TGPCET, Nagpur, organized a guest lecture on “Cotton Biotechnology and Development of Transgenic Cotton” on 22nd January 2025, featuring Dr. Rakesh Kumar from ICAR-CICR. He discussed Bt cotton evolution, Agrobacterium-mediated gene transfer, and Cry proteins, offering practical insights into transgenic crop development and regulation.

Outcomes

1. Students gained insights into genetic modification in cotton, including tools like Agrobacterium and Cry proteins.
2. The session highlighted biotechnology's role in sustainable agriculture and encouraged interest in related careers and research.



Dr Rohit Kalnake welcoming
Dr Rakesh Kumar with a Sapling



Expert Dr. Rakesh Kumar
discussing the importance of BT
cotton

Guest Lecture on MERN Stack and Cloud Computing Organized by Department of Computer Science and Engineering

Objective

To equip students with foundational knowledge of MERN Stack and Cloud Computing, linking theory with industry practices and current development trends.

About the Program

The Department of Computer Science and Engineering organized a guest lecture on “MERN Stack and Cloud Computing” on 1st February 2025 under the ISTE Students Chapter. The session was conducted by Mr. Prashant Kadhao, Founder & Director, PSK Technologies Pvt. Ltd. He shared insights on full-stack development using MongoDB, Express.js, React.js, and Node.js, along with key cloud computing concepts. The session was interactive and attended by 83 students and faculty members.

Outcomes

1. Students gained practical knowledge of MERN stack and cloud computing fundamentals.
2. Improved understanding of deployment and real-world application of web technologies.
3. Enhanced readiness for internships and industry roles in software development.
4. Inspired students to pursue careers in full-stack development and cloud solutions.



Welcome of Expert Mr. Prashant Kadhao



Expert Mr. Prashant Kadhao Delivering the Lecture to the Students

Guest Lecture on “ Fundamentals of Software Testing”” organized by Department of Computer Science and Engineering

Objective

To provide students with foundational knowledge of software testing, tools, methodologies, real-world practices, and career opportunities in quality assurance.

About the Program

The Department of Computer Science and Engineering organized a guest lecture on “Fundamentals of Software Testing” on 24th March 2025 at the APJ Abdul Kalam Seminar Hall under ISTE Students Chapter. The session was conducted by Mr. Prashant Pawar, Technical Solution Architect at HCL Nagpur. He provided valuable insights into manual and automated testing, tools like Selenium and J Unit, and industry-standard practices. The lecture was interactive and attended by 82 third-year students.

Outcomes

1. Students gained foundational knowledge of software testing concepts and techniques.
2. Enhanced understanding of testing tools and industry practices.
3. Increased awareness of quality assurance's impact on software reliability.
4. Encouraged students to explore career opportunities in software testing.



Welcome of Expert Mr. Prashant Pawar, Project Manager, HCL Nagpur by HoD CSE ,Dr. Lowlesh Yadav and Dean T&P , Dr. Nitin Chore



Expert Delivering the lecture on Fundamentals of Software Testing

Guest Lecture on “JAVA Script” organized by Department of Data Science

Objective

To bridge the gap between academics and industry in web development while fostering innovation, entrepreneurship, and practical learning among students.

About the Program

The Department of Computer Science and Engineering – Data Science, TGPCET, Nagpur, organized an industry expert lecture on “JavaScript” on 4th March 2025 at Vijay Bhatkar Hall. The session was delivered by Mr. Vimal Bhaktawarti, CTO & Product Owner at Marg-Maker Solutions Pvt. Ltd., Nagpur. Mr. Bhaktawarti shared his expertise in web technologies, specifically focusing on React JavaScript and Asynchronous JavaScript. He guided students through the architecture, components, libraries, and development concepts behind building responsive web and mobile applications. The lecture was attended by 126 students from the 2nd and 3rd year.

Outcomes

1. Students gained practical insights into modern JavaScript frameworks, especially React.js.
2. They developed a deeper understanding of asynchronous operations in JavaScript.
3. Participants were introduced to real-world application development and architectural concepts.



Lamp Lightening of industrial expert
lecture by Mr. Vimal Bhaktawarti



Expert Mr.Vimal Bhaktawarti
Delivering Lecture.

Expert Lecture: “Data Analytics & Artificial Intelligence.” Organized by Department of Electronics & Communication

Objective

To educate students on industry practices, technical skills, and career opportunities in data analysis and Power BI, enhancing their understanding and preparation for careers in IT

About the Program

The Department of Electronics & Communication Engineering, under the banner of ISTE student chapters, organized an expert lecture on “Data Analytics & Artificial Intelligence” by Mr. Akash Wadhankar, Senior Solution Architect at Infocepts Pvt. Ltd., Nagpur. This session aimed to bridge the academic-industry gap by exposing students to the dynamic fields of data science and AI. Mr. Wadhankar shared insights on data wrangling, analysis workflows, and emerging AI tools. He also emphasized the significance of data privacy and the ethical use of AI in various sectors. The session employed multimedia tools, real-life case studies, and interactive discussions for effective knowledge transfer.

Outcome

1. Students developed a conceptual and practical understanding of data analytics processes.
2. They became aware of data privacy challenges and strategies to mitigate risks.
3. Participants explored AI technologies like machine learning and their application in real-world scenarios.
4. The session inspired students to consider career opportunities in data science and AI-driven industries.



Welcome of Expert Mr. Akash Wadhankar,
Senior Solution Architect at Infocepts Pvt.
Ltd., Nagpur



Expert Mr. Akash Wadhankar, Senior
Solution Architect at Infocepts Pvt. Ltd.,
Nagpur

Expert Lecture: “Python Programming Organized by Department of Electrical Engineering

Objective

To introduce students to Python programming fundamentals, libraries like NumPy, Pandas, and Matplotlib, and develop problem-solving skills through hands-on practice.

About the Program

The Department of Electrical Engineering at TGPCET, Nagpur, organized a guest lecture on “Introduction to Python Programming” on 11/02/2025 under ISTE. Experts Mr. Pratik Potdar and Mr. Mangesh Sambare shared practical insights into Python’s role in data science through lectures, demos, and an interactive Q&A with IV semester students.

Outcomes

1. Basic Python Proficiency: Students gained foundational knowledge in Python syntax, control structures, and data types.
2. Hands-on Programming Exposure: Participants were introduced to writing and executing Python code with real-time demonstrations.
3. Awareness of Engineering Applications: Students learned how Python can be applied in areas like automation, data handling, and simulations relevant to electrical engineering.



Guest Mr. Pratik Potdar Delivering
Lecture



Felicitation of Guest Mr. Mangesh
Sambare by giving Sapling

Expert Lecture: “How to Become an Entrepreneur Skill Strategies and Action Plan” Organized by Department of Electrical Engineering

Objective

To motivate students to pursue entrepreneurship by linking technical skills with business innovation and providing strategies to turn engineering ideas into viable ventures.

About the Program

The Department of Electrical Engineering at TGPCET, Nagpur, organized a guest lecture on “How to Become an Entrepreneur and Skill Strategies and Action Plan” on 18th January 2025. Ms. Sanjivani Gondane, CEO of Egresan Autogoes Pvt. Ltd., shared her entrepreneurial journey, offering insights into business development, core skills, and startup strategies, inspiring students to turn engineering ideas into ventures.

Outcomes

1. Entrepreneurial Insight & Career Orientation: Students gained awareness of entrepreneurship and explored it as a viable career path within the engineering field.
2. Skill & Confidence Development: Enhanced key skills like innovation, leadership, communication, and boosted confidence in idea presentation and stakeholder engagement.
3. Business & Strategic Application: Learned to apply engineering concepts in business models, develop strategies, and understand startup execution from ideation to market launch.



Felicitation of Guest Ms. Sanjivani Gondane by hands of student



Guest Ms. Sanjivani Gondane introduce the Program

Expert Lecture: “Role of Cyber Security in OS” Organized by Department of Information Technology

Objective

To introduce cybersecurity fundamentals in operating systems, highlight threats and tools, and connect concepts to careers, certifications, and core subjects like OS and cryptography.

About the Program

The Department of Information Technology at TGPCET, Nagpur, organized a guest lecture on “Role of Cyber Security in OS” on 12th April 2025 under ISTE, delivered by Mr. Viraj Patle, Director of Cyber Sphere Innovation Pvt. Ltd. The session, attended by 139 students, focused on cybersecurity concepts in operating systems, featuring threat analysis, prevention strategies, and live demonstrations to bridge theory with real-world applications.

Outcomes

1. Foundational Cybersecurity Knowledge: Students developed a strong understanding of cybersecurity principles in operating systems and core IT subjects like Cryptography.
2. Practical Exposure & Threat Awareness: Gained insights into real-world threats, tools, techniques, and mitigation strategies for securing digital environments.
3. Skill Development & Career Motivation: Enhanced analytical skills for system-level challenges and inspired interest in cybersecurity certifications and careers.



Expert Mr. Viraj Patle, Director of Cyber Sphere Innovation Pvt. Ltd., addressing the session



Expert Mr. Viraj Patle, Director of Cyber Sphere Innovation Pvt. Ltd., addressing the session

Expert Lecture: "Career opportunities in Indian Air force" Organized by Department of Aeronautical Engineering

Objective

To establish the AeSI Student Chapter at TGPCET, inspire students to explore careers and research in aerospace, raise awareness of opportunities in organizations like DRDO, ISRO, and HAL, and guide them on the skills and mindset needed for success in the aeronautical and defense sectors.

About the Program

The Department of Aeronautical Engineering at Tulsiramji Gaikwad Patil College of Engineering and Technology (TGPCET), Nagpur, organized a significant event on 14th February 2025 a guest lecture on the topic "Career Opportunities in Indian Air Force. Under ISTE Students Chapter". The guest of honor and keynote speaker was Air Vice Marshal VRS Raju, VSM, Deputy Senior Maintenance Staff Officer at HQ Maintenance Command, Indian Air Force, Nagpur. His expert address covered the technical, operational, and career-related aspects of working in the defense and aerospace industries.

Outcomes

1. Successful Chapter Launch & Exposure: The AeSI Student Chapter was inaugurated, offering students a platform to engage in national-level aerospace activities and professional networks.
2. Career & Skill Clarity: Students gained insights into aerospace and defense career paths, with a focus on essential skills and mindset development.
3. Inspiration & Industry Interaction: A motivating session by Air Vice Marshal VRS Raju provided valuable guidance and direct exposure to defense sector expectations.



Lightning of lamp by Industry expert and Faculty of Aeronautical Engg. Dept



Expert Interacting with students

Industrial Visit at “Softsense Technoserve Pvt. Ltd, Nagpur”

Objective

To provide third-year students with practical exposure to cybersecurity concepts, industry applications, career opportunities, and smart city simulations using the Cyberange Lab.

About the Program

The Department of Computer Science and Engineering at Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur, organized an industrial visit to Softsense Technoserve Pvt. Ltd. for third-year students under the ISTE Students Chapter. Dr. Vishal Lichade, a cybersecurity expert, delivered an insightful session on data protection, threat detection, and mitigation strategies, while also emphasizing the growing demand for skilled professionals in the field. Students toured the Cyberange – a Smart City Simulation Lab – where they observed smart city operations, IoT device integration, and real-time network security, gaining valuable hands-on exposure to cybersecurity infrastructure and applications.

Outcomes

1. Enhanced Understanding: Students gained deeper knowledge of cyber security concepts and infrastructure.
2. Industry Exposure: They were exposed to real-world practices and emerging technologies in cyber security.
3. Career Insights: The session provided valuable guidance on career opportunities and required skills in the IT industry.
4. Practical Experience: The visit to the Cyberange Lab enriched their understanding of secure smart city operations and IoT systems



Dr. Vishal Lichade expert of Cyber Security , Delevering Information to the Students



Students with Faculty During Visit at Softsense Technoserve Pvt. Ltd. Nagpur

Industrial Visit at Site Visit: “CSIR-NEERI campus, Nagpur.”

Objective

To explore CSIR-NEERI's R&D in green building technologies, understand sustainable construction practices and smart city innovations, and inspire students to pursue creative and eco-friendly solutions in civil engineering.

About the Program

The Department of Civil Engineering at TGPCET, in association with ISTE and ARTEX Forum, organized a site visit to CSIR-NEERI, Nagpur, where students gained practical insights into green building technologies, smart city innovations, and sustainable environmental solutions developed through cutting-edge research and development.

Outcomes

1. Understanding Sustainable & Green Building Practices: Students explored eco-friendly materials, technologies, and principles essential for sustainable construction.
2. Insight into Smart City Solutions: Gained knowledge of smart city technologies that drive energy efficiency and resource conservation in urban planning.
3. Innovation & Real-World Awareness: The session highlighted challenges and opportunities in India's sustainability efforts, inspiring innovative thinking in engineering applications.



Students & Faculty during visit at CSIR-NEERI campus, Nagpur



Students during demonstration of Models

Industrial Visit at “Air Traffic Controller Air Authority , Nagpur “

Objective

To provide students with insights into Air Traffic Control (ATC) systems, including the roles of controllers, technologies used, and the critical role ATC plays in maintaining aviation safety and operational efficiency.

About the Program

The Department of Aeronautical Engineering at TGPCET organized an industrial visit to the Air Traffic Control (ATC) Centre at AAI, Nagpur, for 3rd, 5th, and 7th semester students. The visit offered practical exposure to ATC operations, showcasing real-time aircraft monitoring, communication, and navigation systems. Coordinated by Dr. Manoj Choudhari, Prof. Shruti Giri, and Mr. Nilesh Kumar Rai (ATC Officer), the session helped students understand the critical role of ATC in ensuring aviation safety and efficiency.

Outcomes

1. Understanding ATC Functions: Students gained firsthand knowledge of how air traffic control systems operate and how airspace is managed.
2. Appreciation of Air Traffic Controllers' Roles: Students observed the critical responsibilities of air traffic controllers in ensuring safe and efficient aircraft movements.
3. Exposure to Technologies and Systems: Students explored the advanced radar, communication, and navigation technologies that are essential for managing air traffic.
4. Real-World Application of Aviation Concepts: The visit helped students connect their theoretical knowledge of aviation to real-world applications, particularly in air traffic management.



Students & Faculty During Visit
at Air Traffic Controller Air
Authority , Nagpur



Live Demonstration by expert to the
Students Air Traffic Controller Air
Authority , Nagpur

Industrial Visit at “Mitrasena-Biowall Agrihealth Pvt. Ltd., Nagpur “

Objective

Students explored the development of biofertilizers using microbial consortia, learning how they enhance soil fertility and support sustainable agriculture. They also gained practical insights into the use of fermentors in scaling up microbial cultures for industrial biofertilizer production.

About the Program

On 1st August 2024, B.Tech Biotechnology students from TGPCET, Nagpur, visited Mitrasena Biowall Agrihealth Pvt. Ltd., Hingna, under the ISTE Students Chapter. The visit introduced second- and third-year students to the real-world applications of biofertilizers and career opportunities in agriculture. Ms. Kritika Kirimkar, R&D In-Charge, explained the role of microbial consortia in enhancing soil fertility and promoting sustainable farming, offering a detailed view of biofertilizer development and production.

Outcomes

1. Practical Knowledge of Biofertilizer Production: Students learned about microbial consortia and fermentor-based industrial processes for enhancing soil health.
2. Focus on Sustainable Agriculture: Emphasized the role of biofertilizers in reducing chemical fertilizer use and promoting eco-friendly farming.
3. Career Awareness in Agri-Biotech: Introduced students to career opportunities in agricultural biotechnology and sustainable farming innovations.



Students Listening Information during visit at Mitrasena-Biowall Agrihealth Pvt. Ltd., Nagpur



Students During Visit at Practical Demonstration

Industrial Visit at “Regional Remote Sensing centre ISRO., Nagpur”

Objective

The objective was to help students understand ISRO's contributions to space science and engineering, explore the Indian Remote Sensing program and its applications, and recognize how remote sensing technology benefits society. The session also aimed to celebrate World Space Week and highlight its significance in promoting space science and technological advancement.

About the Program

On 10th October 2024, 67 second-year students from CSE-Data Science at TGPCET visited the Regional Remote Sensing Centre (Central), ISRO Nagpur, as part of World Space Week. Coordinated by Dr. Sadhna Jain and Dr. Ashish Sharma, the visit aimed to provide insights into ISRO's contributions to space science, remote sensing technologies, and their real-world applications. Dr. Sharma introduced students to the concept of remote sensing and discussed how various instruments like optical, microwave, and hyperspectral sensors help observe the Earth for scientific and societal benefits.

Outcomes

1. Insight into Remote Sensing & Space Applications: Students gained an understanding of remote sensing technologies used by ISRO and their role in resource management, urban planning, and environmental monitoring.
2. Awareness of Space Programs & Initiatives: The visit highlighted ISRO's Indian Remote Sensing program and the importance of World Space Week in promoting space technology for human welfare.
3. Career Exploration in Space Science: Students were introduced to potential career paths in space research and technology, sparking interest in the field.



Students and Faculty during visit at Regional Remote Sensing centre ISRO., Nagpur



Live Session at Regional Remote Sensing centre ISRO., Nagpur

Industrial Visit at “HORIBA India Pvt. Ltd., Nagpur.”

Objective

To expose students to biomedical and environmental technologies at HORIBA India Pvt. Ltd., including diagnostic instruments, emission systems, and QA/QC operations in a real-world manufacturing setting.

About the Program

On 13th September 2024, 35 final-year students from the Department of Electronics & Communication Engineering at TGPCET visited HORIBA India Pvt. Ltd., Butibori, Nagpur, under the ISTE & IEI Students Chapter. The visit offered insights into HORIBA's work in automotive emissions, environmental instruments, and biomedical technologies. Mr. Aniket Khandaitkar and his team introduced the students to the company's vision, operations, and advanced manufacturing processes. Students explored various units including training rooms and QA/QC sections, gaining exposure to diagnostic equipment, automation, and the use of instruments like hygrometers to ensure product quality.

Outcomes

1. Practical Exposure to QA, QC & Automation: Students gained hands-on experience in quality control and automation processes used in biomedical equipment manufacturing.
2. Insight into Biomedical & Automotive Technologies: The visit deepened understanding of advanced technologies in biomedical and emission measurement systems.
3. Real-World Industry Experience: Students explored actual manufacturing operations, gaining industry insights and awareness of career opportunities in scientific and biomedical sectors.



Students & Faculty during visit at HORIBA India Pvt. Ltd., MIDC, Butibori Industrial Area, Nagpur



Students Listening Session at Visit Place

Industrial Visit at “MSEDCL 33kV/11kV Substation at Alagondi, Butibori, Nagpur”

Objective

To provide students with technical knowledge of substation operations, bridge theory with practice, enhance observational skills, promote safety awareness, and offer career insights in power distribution.

About the Program

On 2nd August 2024, the Department of Electrical Engineering at TGPCET organized an industrial visit to the MSEDCL 33kV/11kV Substation in Alagondi, Butibori, Nagpur, to provide students with real-world exposure to substation operations and power distribution. The visit helped bridge theoretical learning with practical experience as students observed key components like transformers, circuit breakers, and control systems. It also emphasized the significance of safety protocols in high-voltage environments and gave students insights into grid management and voltage transformation processes.

Outcomes

1. Comprehensive Understanding of Substation Operations: Students learned about voltage transformation, power distribution, and real-time functionality of substations.
2. Practical Application & Safety Awareness: The visit connected theoretical knowledge with practical systems and emphasized critical safety protocols in high-voltage environments.
3. Career & Skill Development: Students enhanced observational skills and gained insights into career opportunities in the power and electrical engineering sectors.



Expert Explaining to the Students & Faculty during visit at MSEDCL 33kV/11kV Substation at Alagondi, Butibori, Nagpur



Students with Faculty at MSEDCL 33kV/11kV Substation at Alagondi, Butibori, Nagpur

Industrial Visit at Site Visit: to PSK Technologies Pvt. Ltd., by Department of Computer Science and Engineering

Objective

To expose students to real-world IT practices, emerging technologies, and career opportunities while enhancing their technical, professional, and interpersonal skills through industry interaction.

About the Program

The Department of Computer Science and Engineering at TGPCET, Nagpur, organized an industrial visit to PSK Technologies Pvt. Ltd., Nagpur, on 1st March 2025 under the ISTE Students Chapter. The visit aimed to expose students to real-world IT operations, emerging technologies, and professional workflows. Students interacted with industry experts, observed live demos, and gained insights into technical roles. The visit was coordinated by Prof. Bramhadeo Wadibhasme.

Outcomes

Students gained practical insights into IT industry operations, essential technical and soft skills, diverse career paths, and the importance of professional development, bridging academic learning with real-world applications.



Expert Delivering the Information about IT Technologies used in Industry



Students Group Photo During Visit

Industrial Visit at Ankur Seeds Pvt. Ltd., Neri , Nagpur by Department of Biotechnology Engineering

Objective

To expose students to advanced agricultural biotechnology practices, including GM crop development, tissue culture techniques, ELISA diagnostics, and real-world industrial applications.

About the Program

The Department of Biotechnology, TGPCET, organized an industrial visit to Ankur Seeds Pvt. Ltd., Neri on 13th January 2025 for 4th semester students, where they explored GM crop development, tissue culture labs, and ELISA diagnostics under the guidance of Dr. Pravin Kamble.

Outcomes

1. Practical exposure to GM crops and tissue culture in agriculture.
2. Hands-on experience with ELISA and crop diagnostics.
3. Observed advanced lab techniques in plant propagation.
4. Motivated students towards careers in agri-biotech and R&D.
5. Linked academic learning with real-world biotech applications.



Students and Faculty Group photo during Visit



Students Listening the expert thoughts During Visit

Industrial Visit at Maharashtra Remote Sensing centre (MRSAC) Nagpur by Department of Electronics and Communication Engineering

Objective

To provide hands-on exposure to remote sensing, GIS, and digital image processing tools, linking academic concepts with industry practices and career opportunities in geospatial technologies.

About the Program

The Department of Electronics & Communication Engineering at Tulsiramji Gaikwad Patil College of Engineering and Technology, under the aegis of the ISTE student chapters, organized an industrial visit to the Maharashtra Remote Sensing Application Center (MRSAC), located at VNIT Campus, South Ambazari Road, Nagpur.

MRSAC, established in 1988, is an autonomous institution functioning under the Department of Planning, Government of Maharashtra. It has become a premier center for Remote Sensing and GIS applications, supporting a wide range of government departments and academic bodies.

Outcomes

1. Practical and Technical Exposure: Students interacted with advanced tools like Erdas Imagine and LPS, gaining hands-on experience in image processing, remote sensing, and GIS.
2. Industry Application and Subject Integration: The visit demonstrated how academic concepts from Signals & Systems and Digital Image Processing are applied in real-world sectors such as urban planning, agriculture, and environmental monitoring.
3. Career Orientation and Interdisciplinary Learning: Students explored career opportunities in geospatial technologies and government sectors, while enhancing their understanding through an interdisciplinary lens combining electronics, communication, and data analysis.



Students and Faculty during visit at Maharashtra Remote Sensing centre, Nagpur



Live Session at Maharashtra Remote Sensing centre, Nagpur

Industrial Visit at HRT – High Rise Transformer, Nagpur, by Department of Electrical Engineering

Objective

To provide students with practical exposure to transformer technology, its applications in smart grids and e-mobility, and to bridge academic learning with real-world electrical engineering practices.

About the Program

The Department of Electrical Engineering at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur, organized an industrial visit to HRT – High Rise Transformer, Nagpur, on 11th January 2025 for 2nd-year Electrical Engineering students under ISTE Students Chapter.

The visit was designed to offer a practical learning experience and deepen the students' understanding of Transformer technology, including DC machines and Power Distribution Systems. A total of 66 students participated in this hands-on educational event.

The session was led by Mr. Samir Jadhav, a seasoned expert in the field of electrical machinery

Outcomes

1. Hands-on Technical and Industrial Exposure: Students observed real-time transformer design, construction, and the role of transformer oil, enhancing their practical understanding of power systems.
2. Curriculum Reinforcement and Application: The visit bridged theoretical concepts from Electrical Machines and Power Systems with real-world applications, including smart grids and electric vehicles.
3. Career Insight and Professional Engagement: Interactive sessions fostered curiosity and critical thinking while introducing students to career paths in transformer technology and power engineering.



Students & Faculty during visit at HRT – High Rise Transformer, Nagpur.



Expert Giving Practical Demonstration during Visit

Industrial Visit at Xceller Pvt. Ltd., Nagpur Department of Electrical Engineering

Objective

To expose students to real-world data software development, tools, and workflows, bridging academic knowledge with industry practices and career insights.

About the Program

The Department of Information Technology at TGPCET, Nagpur, organized a one-day industrial visit to Xceller Pvt. Ltd. on 15th February 2025 for second-year students. Guided by Mrs. Mrunali Zade, the visit included sessions on industrial safety, company operations, and real-time data handling in software solutions. A total of 51 students participated, accompanied by faculty coordinators Mr. Jayesh Fating and Ms. Swati Thenge. The visit concluded with a Q&A session and a mapping test to reinforce learning.

Outcomes

1. Real-World Industry Exposure: Students explored practical data processing systems and software development, connecting academic learning with industrial applications.
2. Skill Enhancement and Technical Insight: The visit introduced students to modern IT tools, infrastructure, and analytical techniques, fostering relevant skill development.
3. Career Awareness and Professional Engagement: Interaction with industry experts provided insights into data-centric careers, motivating students to pursue opportunities in data science and software engineering.



Students and Faculty group photo during Visit



Project Live Session During Visit

Industrial Visit at Bhandewadi Sewage Treatment Plant (200 MLD), Nagpur, Department of Civil Engineering

Objective

To provide students with practical exposure to sewage treatment processes, infrastructure operations, environmental standards, sustainability practices, and safety protocols.

About the Program

On the occasion of International Women's Day (10th March 2025), the Department of Civil Engineering at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur, in collaboration with ISTE, organized a special site visit to the Bhandewadi Sewage Treatment Plant (200 MLD), Nagpur. The visit was specially curated for bright girl students of Civil Engineering to inspire, educate, and empower them in the field of environmental and water engineering.

The site visit served as an immersive learning opportunity, allowing students to correlate academic concepts with practical applications. During the visit, students witnessed the treatment process, plant operations, and the technologies used to transform wastewater into environmentally safe water. They also gained insights into the plant's layout, automation systems, maintenance protocols, and safety measures.

Outcomes

1. Practical and Technical Exposure: Students gained hands-on understanding of sewage treatment processes and observed key infrastructure components like clarifiers, aeration tanks, and disinfection units.
2. Environmental and Regulatory Awareness: The visit emphasized the importance of sustainable wastewater management and compliance with environmental regulations.
3. Career Orientation and Professional Interaction: Engaging with industry professionals inspired students to explore careers in wastewater treatment, environmental engineering, and water resource management.



Group Photo of Faculty members, Expert and Students During Visit



Plant Visit with Expert

Industrial Visit at KEC International Ltd., Butibori, Department of Mechanical Engineering

Objective

To provide students with practical exposure to power transmission operations, modern manufacturing, quality standards, safety protocols, and sustainable practices in the power sector.

About the Program

The Department of Mechanical Engineering at TGPCET, Nagpur, organized a one-day industrial visit on 13th January 2025 to KEC International Ltd., Butibori, under ISTE. The visit exposed 2nd and 3rd-year students to real-time manufacturing and testing of power transmission infrastructure. Students explored the world's highest capacity tower test station, gaining insights into global EPC practices. Mr. Raman Badge, Assistant Manager, guided the visit, and pre/post activities like induction sessions and MCQ tests ensured academic integration and learning assessment.

Outcomes

1. Real-World Technical and Industrial Exposure: Students observed the design, testing, and manufacturing of power transmission towers, gaining practical insights into engineering workflows and operational challenges.
2. Understanding Standards and Sustainability: The visit deepened awareness of ISO certifications, safety protocols, quality assurance, and eco-friendly practices in manufacturing.
3. Skill Building and Professional Growth: Students developed essential skills such as communication, observation, and analytical thinking, supporting their future roles as engineers.



Mr. Raman Badge, Assistant Manager, Trainer Incharge at KEC International Ltd. provided valuable information



Students live streaming for testing power transmission testing process

Industrial Visit at AAR Indamer Technics Pvt. Ltd. Nagpur, Department of Aeronautical Engineering

Objective

To provide students with hands-on exposure to aircraft MRO operations, technologies, safety protocols, and career opportunities in the aerospace industry.

About the Program

The Department of Aeronautical Engineering at Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur, organized an industrial visit on 25th February 2025 to AAR Indamer Technics Pvt. Ltd., under ISTE Students Chapter one of India's premier MRO service providers located in Nagpur. AAR Indamer is a joint venture between AAR Corp (USA) and Indamer Aviation, offering world-class aircraft maintenance, repair, and overhaul services. The company caters to commercial, business, and military aircraft, and is recognized for its advanced technological infrastructure, regulatory excellence, and global service standards.

Outcomes

1. Practical Exposure to MRO Operations: Students gained firsthand understanding of aircraft maintenance procedures, tools, and documentation, enhancing their technical knowledge.
2. Alignment with Industry Standards: The visit familiarized students with global aviation safety protocols and regulatory compliance practices.
3. Career Insight and Learning Reinforcement: Through professional interaction, quizzes, and discussions, students explored aviation career paths and solidified their understanding of MRO concepts.



Students Experiencing the maintenance
of Aircraft



Students and Faculty Coordinator at
AAR Indamer, Nagpur

Two Days Workshop on “Cyber Security “

Objective

To equip students with fundamental and practical knowledge of cyber security, including tools, ethical hacking, penetration testing, and industry-aligned career insights.

About the Program

The Department of Computer Science and Engineering at TGPCET, in collaboration with Softsense Technoserve Pvt. Ltd., organized a Two-Day Workshop on “Cyber Security” for third-year engineering students. Conducted under the ISTE Students Chapter, the workshop was designed to offer a blend of theoretical foundations and practical insights into cyber security. Sessions were delivered by Dr. Vishal Lichade, a prominent industry expert, and focused on real-world threats, encryption/decryption, data communication, and ethical hacking. The hands-on sessions took place in Softsense’s Cyber Security Lab, offering students exposure to professional tools and environments used in the cyber security industry.

Outcomes

- 1.Introduce Cyber Security Fundamentals: To familiarize students with core concepts and principles of cyber security.
- 2.Hands-On Tool Training: To provide practical experience with key cyber security tools such as Wireshark, Nmap, and Metasploit.
- 3.Develop Networking and Ethical Hacking Skills: To strengthen understanding of computer networks, penetration testing, encrypted data decoding, and cyber ethics.
- 4.Bridge Academia and Industry: To align student learning with current industry practices and career pathways in cyber security.



Group Photo of Students, Faculty and Expert



Expert During Concluding 2 days Workshop Session

Two Days Workshop on “Seaborn Data Visualization using Streamlit Python”

Objective

- 1.To Aware students about basic properties of Data Visualization.
- 2.To Aware Students about Application of Project.

About the Program

The Department of Computer Science and Engineering (Data Science) organized a two-day workshop on “Seaborn Data Visualization using Streamlit Python” on 10th and 11th September for 2nd-year students, in collaboration with Livewire, Nagpur. The sessions were conducted by experts Mr. Akshay Jain, Mr. Gaurav Bansod, and Ms. Shubhanghi Thakre. A total of 49 students participated in the workshop, which was held at Aryabhata Hall and the Software Engineering and Data Science Labs.

On Day 1, the workshop covered the fundamentals of Data Science, career opportunities, and core Python concepts such as functions, modules, and data structures. Day 2 focused on introducing Streamlit, its benefits in building interactive data apps, and practical implementation using Seaborn for data visualization.

Outcomes

1. Enhanced Python and Visualization Skills
2. Hands-on Experience with Seaborn and Streamlit
3. Awareness of Career Opportunities in Data Science
4. Understanding of Real-Time Data App Development
5. Skill Development in Coding and Tool Usage



Welcome of Expert Mr. Gaurav Bansod and Ms. ShubhanghiThakre

Two Days Workshop on “ Web Application using Node JS & Postgre SQL (IOT).”

Objective

To provide students with practical skills in backend API development, real-time data processing, and database management using NodeJS and PostgreSQL for IoT applications.

About the Program

A three-day hands-on workshop was conducted by TechMentor IoT Solutions from 08th to 10th August 2024, focusing on backend development and data handling for IoT and embedded systems using NodeJS and PostgreSQL.

Outcomes

1. Practical Exposure: Students gained hands-on experience in NodeJS API development and working with PostgreSQL for IoT applications.
2. Skill Enhancement: The workshop enhanced students' technical abilities in backend development, preparing them for future careers in web development, IoT, and embedded systems.
3. Collaborative Learning: Students and faculty had the opportunity to collaborate with industry professionals and gain industry-relevant insights.



Students & Faculty During Session



Distribution of Participation Certificates to the Students

Three Days Workshop on Electrical Winding Design with MATLAB & Practical Applications Organized by Department of Electrical Engineering

Objective

To build foundational and practical skills in electrical winding design and MATLAB-based simulation and optimization.

About the Program

The Department of Electrical Engineering at TGPCET, Nagpur, organized a three-day hands-on workshop on “Electrical Winding Design with MATLAB & Practical Applications” from 7th–9th January 2025 under ISTE, engaging 65 IV-semester students. Led by expert Mr. Deepak Shelar and coordinated by Prof. Ashvini Admane and Prof. Mrunali Kite, the workshop included sessions on winding concepts, MATLAB-based design, and real-world applications, concluding with a Q&A and vote of thanks.

Outcomes

1. Skill Development in MATLAB & Electrical Design: Students gained hands-on experience in MATLAB programming and its application to electrical winding systems.
2. Enhanced Conceptual & Problem-Solving Abilities: The workshop deepened understanding of winding systems and encouraged critical thinking through real-world challenges.
3. Industry-Oriented Learning: Practical exposure aligned academic knowledge with industry practices, boosting students' career readiness in the electrical field.



Felicitated to Session Expert Mr. Deepak Shelar by hand of Prof. Ganesh Wakte(HoD, EE)



Session Expert giving Practical Demonstration by hand of Prof. Ashvini Admane on Electrical winding design

Two Days Workshop on Generative AI Organised by Department of Data Science

Objective

To bridge the gap between academics and industry by providing hands-on experience in developing Generative AI models using tools like Azure OpenAI and Microsoft Copilot, while also exploring real-world applications and ethical considerations in AI.

About the Program

The Department of Computer Science & Engineering (Data Science) organized a Two-Day Hands-on Workshop on “Generative AI” led by Mr. Ashish Chakole, Senior Technical Architect at Perficient. The workshop focused on practical learning using Azure OpenAI and Microsoft Copilot, covering the complete model development life cycle. Students gained real-world insights into AI applications, ethical considerations, and industry practices, enriched by Mr. Chakole’s extensive experience in digital transformation and AI solutions.

Outcomes

1. Practical & Technical Exposure to Generative AI: Students gained hands-on experience with AI tools, learning the full development cycle from data processing to model deployment.
2. Ethical & Professional Awareness: The workshop emphasized responsible AI practices and provided career guidance through expert interaction.
3. Community & Career Engagement: Students were encouraged to join AI communities, enhancing networking, skill-building, and long-term learning opportunities.



Inauguration of 2 Days Workshop on
Generative AI



Students During Workshop Introduction to
Generative AI.

Two Days Workshop on Industrial Database Excellence using Oracle by Department of Information Technology

Objective

To provide students with hands-on experience in designing, managing, and optimizing industrial databases using Oracle tools, with a focus on real-time applications and data security.

About the Program

The Department of Information Technology at TGPCET, Nagpur, organized a Two-Day Offline Workshop on “Industrial Database Excellence using Oracle” for IV Semester IT students. Guided by Mr. Nikhil Agrawal, Project Manager at Perficient Pvt. Ltd., the workshop focused on real-world database skills. Coordinated by Mr. Jayesh Fating, the event saw active participation from 50 students and concluded with a vote of thanks by Prof. Leena Suryawanshi.

Outcomes

1. Foundational & Practical Database Skills: Students gained conceptual clarity and hands-on experience with Oracle, SQL, and GUI-based database operations.
2. Performance, Security & Maintenance Awareness: The workshop covered key areas like query optimization, data normalization, backup strategies, and database security.
3. Industry Alignment & Collaborative Learning: Students engaged in peer discussions, expert interactions, and explored real-world practices, enhancing career readiness in database management.



Welcome of Expert Mr. Nikhil Agrawal



Expert Talk by Mr. Nikhil Agrawal

तुळशीरामजी गायकवाड पाटील अभियांत्रिकी
महाविद्यालयात अभियंता दिन साजरा

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गायकवाड पाटील अभियांत्रिकी महाविद्यालयात
औष्णिक वॉज निर्मिती या विषयावर अतिथी व्याख्यान

निष्ठा : विपुल अभिरुचि
A.R.A. उपसहायक विभाग
नि. सहायक व सहायक

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FROM THE COLLEGES
TGPCET



TULSI RAMJI Gaikwad-Patil College of Engineering and Technology (TIGPCEET), Nagpur, has successfully organised the National Level Technical Event—TECHTANTRA'2K25 under the IET and ISTE Cell. The programme was inaugurated with the lighting of the lamp by chief guest Dr Sonaj Balamwar, and a Dr P L Nakode, and Prof Ritesh Banpurkar, Principal and multiple competitions, Judged by Akshay Pachpor, Principal Tajne, Dr Bharati Sayankar, Dr Sohel Abhyankar, Dr Pratik Ghuikre, Prof Dr Swapnil Karemore. The event was supported by Prof Gulabje and Prof Brahmadeo Wadigahmane, well supported by coordinators and anchored by Prof Sakshi Zade, Dr Mohan Gaikwad-Patil, Akash Gaikwad-Patil, Dr Pratik Gaikwad-Patil, P. L. Nakode, and Dr Pragati Patil Bedekar, supported the event.

जेनरेटिव एआई पर गेस्ट लेक्चर

विकास और इंजीनियरिंग



Community News
Expert talk on research paper
held at TGPCET

writing



The students chapter of Indian Society of Technical Education (ISTE) of Tatyasaheb Kore Institute of Technology, Warananagar, recently conducted an inter-collegiate seminar on "Paper Writing" at JRD Tata Hall. The event featured eminent speakers from Sheela Dengang, a part of the research, a part of the Doctoral Research, AJOI, South Korea, available in English and expected to be published in the Writing in the South Asian audience with comprehensive and strategic insights. The participants included students and faculty members from various institutions. The event was presided over by the Chairman, ISTET, Dr. Mohan Gokul, and the Vice-Chairman, ISTET, Dr. Gokul, and the Secretary, ISTET, Dr. Gokul, and the Treasurer, ISTET, Dr. Gokul, and the Public Relations, ISTET, Dr. Gokul, and the President, ISTET, Dr. Gokul.

एमटैक, बीएक के छात्रों ने दिए पेपर प्रेजेंटेशन

आई

गवर्णमण्डल
प्रौद्योगिकी विभाग और
अभियांत्रिकी विभाग
पर
'भारतीय ज्ञान प्रणाली' पर
विज्ञान
विभाग 'भारतीय समेशन विज्ञान
अभियांत्रिकी विभाग प्रौद्योगिकी
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प्रमुख विभागों
उपरोक्त और वीर
समेशन में एमप्लॉय और वीर
समेशन में एमप्लॉय का
के लिए प्रमुख अभियांत्रिकी
विभाग

TGP अभियांत्रिकी का रिमोट सेन्सिंग सेंटर का दौरा

■ नागपुर, बि



नार्थ के छात्रों को मध्यस्थितिक टेक्नोलॉजी का प्रत्यक्ष परिचय मिला. 2 दिनों में छात्रों ने उद्योग के विरोध और प्राथमिकों के मार्गदर्शन में रिसेटर्स से सीमेंट के व्यावहारिक अनुप्रयोगों का प्रशिक्षण प्राप्त किया. रातभर डॉ. अशोक शर्मा के नेतृत्व में यह दौरा एक सीखने का महत्वपूर्ण अनुभव प्रदान करने वाला साबित हुआ जिससे छात्रों को उद्योग-मुख्य टेक्नोलॉजी में करीब का नया नज़र खोलने की प्रेरणा मिली.

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