



A+ NAAC Accredited

Vidarbha Bahu-uddeshiya Shikshan Sanstha's

**TULSIRAMJI GAIKWAD-PATIL**  
**College of Engineering & Technology**

Mohgaon, Wardha Road, Nagpur - 441108 | An ISO 9001:2015 Certified Institution  
(An Autonomous Institute Affiliated to RTM Nagpur University, Nagpur)

**DTE**  
**CODE**  
**4151**

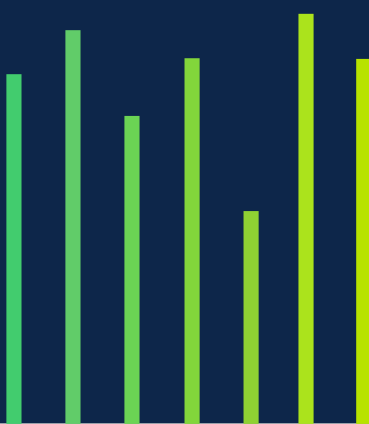


**Indian Society for  
Technical Education**

**ISTE**

**TECHVISION**

**2022-23**



# About Institute

Tulsiramji Gaikwad-Patil College of Engineering and Technology(TGPCET) was established in the year 2007 by Vidarbha Bahu-uddeshiya Shikshan Sanstha (VBSS).The Institute is Accredited with A+ (3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC). An Autonomous Institute affiliated to RTM Nagpur University, Nagpur.

The College has signed MoU with Charusat University,'Gujrat Dr.Panjabrao Deshmukh Krishi Vidyapeeth (PDKV),Akola and Vignan's University,'Guntur to excel the academic and research capability of staff and students in the emerging fields of Science, Engineering and Agriculture.

ABP News had honored with an Award to TGPCET as "An Outstanding Institute (West)" in the year 2015. It also got feather in the cap in Academics by getting an Award from Big Research as "A Most Promising Engineering College" in the Vidarbha Region of Maharashtra in the year 2012.

The college is guided by its Advisory Committee consisting of Eminent Academician from Prestigious Institutes and also by the Renowned Industrialists. The institute works towards excellence in imparting quality technical education by motivating students to become a trend-setter to acquire Global leadership. For implementing the quality policy, an action plan is collectively prepared by the Principal and HoDs as per the vision of the Management and the Management regularly interacts with the Principal to review the implementation process of the quality plans

# Our Inspiration



Late **Shri. Tulsiramji Gaikwad-Patil**  
(1<sup>st</sup> April 1915 - 18<sup>th</sup> July 1986)

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

In the near future, the GPGL is poised to become one of the best and most dynamic institutions which will cater to varied educational needs of the increasingly bustling region of Vidarbha. With the ever increasing levels of competition in the education sector, there is always an opportunity of moving beyond expectations, creating new milestones and benchmarks.

## FROM MANAGEMENT DESK



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

Dr. Mohan Gaikwad-Patil, with more than twenty five years of experience in 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 of 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 a 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 three engineering colleges, well known in the region for their constant striving to impart quality and industry-relevant education to their students. Hardly in his early forties, Dr. Gaikwad is the young and dynamic face of the Group. His contagious enthusiasm and unflagging drive is truly inspiring.



**Mr. Akash Gaikwad-Patil**  
Vice Chairman, GPG

We envision a time when youth from different regions are engaged in all sectors of technology and management where issues affecting young people are debated and decisions made. We create a network of youth empowered with skills and knowledge, to be able to contribute to healthy economy and growth of the society and nation. We are molding young minds to be active in global events where their opinions can be listened to and respected. We are committed to create a vibrant and stimulating environment to live and learn.



**Dr. Anjali Patil-Gaikwad**  
President, GPGI

With first class post graduate degrees in English Literature, Mass Communication and Sociology, plus M. Phil. in English Literature and now a 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.



**Prof. Sandeep Gaikwad**  
Treasurer

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.



**Prof. Pragati Patil**  
Vice-Principal

Albert Einstein said, "Education is not about learning of facts but training young minds to think." There is a big difference between cramming up facts and learning them so that they can be applied in productive ways. At TGPCET, we try to work towards holistic development of our students by providing them the tools and experiences that encourage our students to think. The aim is to create empowered minds so that students are able to decide what is good for them, differentiate between right and wrong, choose opportunities that help build them up and enable them to live in harmony with all existence. As the Vice Principal, I am delighted that the institute's values align with my own personal values, including the importance of trust, respect, innovation and a sense of community.

## 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 became 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. Darshika Khawase and Prof. Kushal Masarkar**



Secretary  
**Prof. Darshika Khawase**  
Aeronautical Engineering



Jt. Secretary  
**Prof. Kushal Masarkar**  
Electronics & Communication  
Engineering

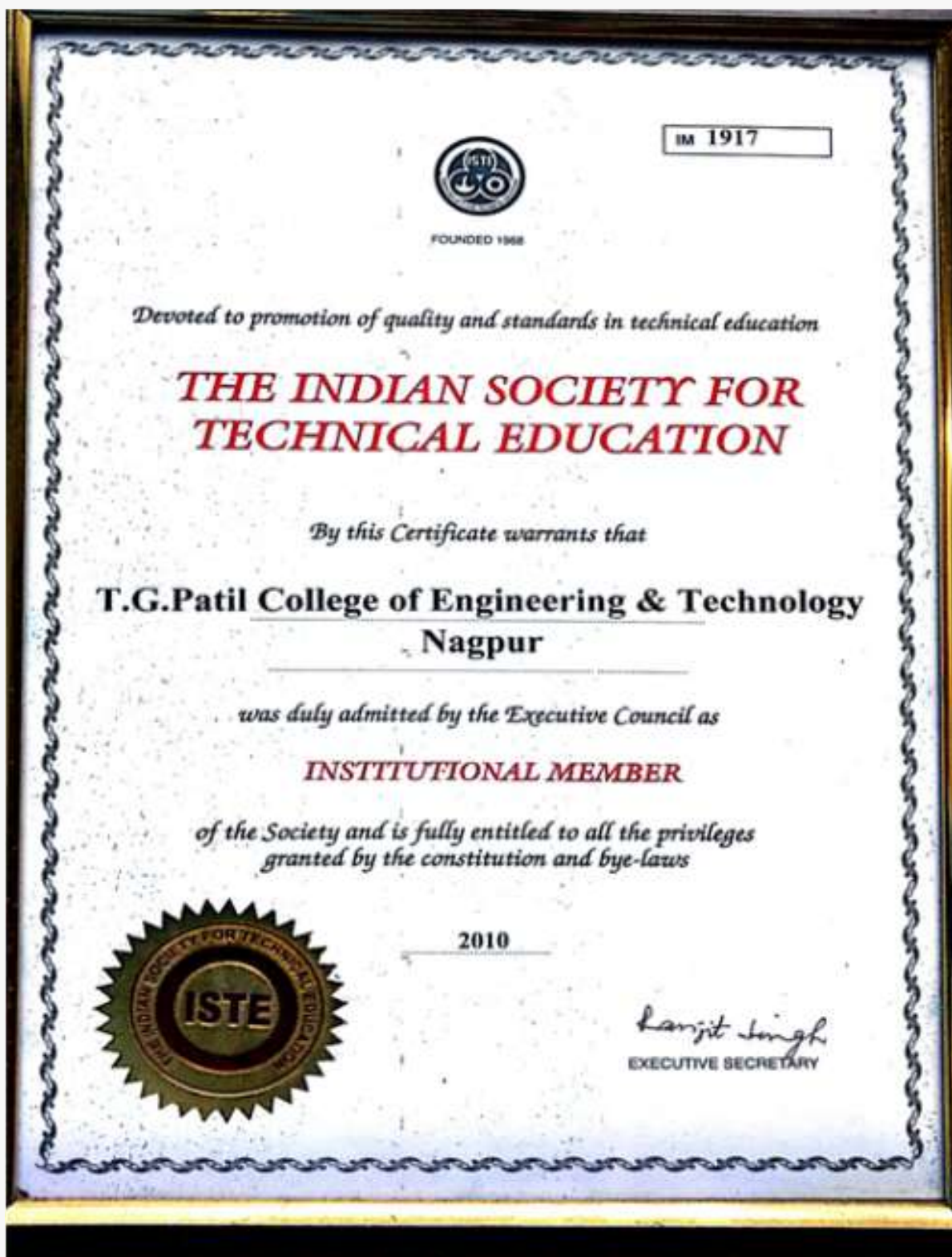
## About TGPCET-ISTE

The Indian Society for Technical Education is a national, professional, non profit making Society 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 to compete with their coevals in healthy spirit and become adept in what they are learning, helping them in accomplishing the ultimate goals of their lives.



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



**ISTE STUDENTS CHAPTER**  
(The ISTE at TGPCET was started 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.



# INSTITUTION HIGHLIGHTS



Education Leadership Award Presented by Dewang Mehta



Best ISTE Faculty Chapter Award



Outstanding Engineering Institute (West) Presented by ABP



ISTE Award for "Best Project"



"College Ranked 192 in India" survey done by India Today.



Education Leadership Award Presented by Dewang Mehta Foundation



Gurugaurav Award for Excellent Contribution in the field of Education



Receiving Excellence Award by hands of Hon. Dr. Shashi Tharoor



National Certificate of Accreditation by Assessment & Accreditation Council

## UNIQUE FEATURES



Apple Mac Laboratory



Industry Sponsored BMW Laboratory

## Awards won by Students and Faculty for the year in 2022-23



Our college awarded the “Best Knowledge Centre (LIBRARY)” by Maharashtra & Goa ISTE Section who was awarded the same in the year 2022.



Our Faculty Dr. Shubhangi Gondane has been awarded “Best Women Teaching Faculty in Engineering” by Maharashtra & Goa ISTE Section who was awarded the same in the year 2022.



Our Faculty Prof. Prafull Randive has been awarded “Best Innovative Project in Engineering” by Maharashtra & Goa ISTE Section in Annual Faculty Convention who was awarded the in the year 2021.

## NPTL STARS

### ELITE + GOLD



**Mr. Radharaman Shaha**  
Education for Sustainable Development

### ELITE + SILVER



**Mr. Chetan Jambhulkar**  
Education for Sustainable Development  
80%



**Ms. Nikita malwar**  
Introduction to Research  
75%

### ELITE



**Mr. Mohitsingh Katoch**  
United Nations Sustainable  
Development Goals (UNSDGs)  
69 %



**Mr. Abhimanyu Dutonde**  
Introduction to Research  
68%



**Ms. Dipali Bhojar**  
Introduction to Research  
64%



**Mr. Amey Khedikar**  
Outcome based Pedagogies  
for Effective Teaching  
61%

## ISTE FACULTY COMMITTEE MEMBER



Chairman  
**Prof. Ritesh Banpurkar**  
Dean IQAC



Secretary  
**Prof. Darshika Khawase**  
Aeronautical Engineering



Jt. Secretary  
**Prof. Kushal Masakar**  
Electronics & Communication Engineering



Resource Manager  
**Prof. Divyani Harpal**  
Civil Engineering



Technical Advisor  
**Prof. Praful Randive**  
Mechanical Engineering



Faculty Advisor  
**Prof. Radharaman Shaha**  
COE



Executive Members  
**Prof. Mr. Jayant Rohankar**  
Information Technology



Member  
**Prof. Mr. Chetan Jambhulkar**  
Electrical Engineering



Member  
**Prajakta Arjapure**  
Biotechnology Engineering



Technical Advisor  
**Prof. Sonali Mohod**  
Computer Science & Engineering

## ISTE STUDENTS CHAPTER COODINATOR



**Aishwarya**  
Aeronautical Engineering



**Shubham Khare**  
Aeronautical Engineering



**Anuja Parte**  
Aeronautical Engineering



**Samyak Bansod**  
Civil Engineering



**Purshottam Fender**  
Civil Engineering



**Prashant Pustode**  
Civil Engineering



**Prachi Tale**  
Civil Engineering



**Ms. Juhi Ramteke**  
Civil Engineering



**Ms. Tanvi Waghmare**  
ECE Dept.



**Mr. Ashish Hazare**  
ECE Dept



**Mr. Vaibhav Bhramankar**  
ECE Dept



**Mr. Naveen Pathak**  
CSE Dept



**Mr. Kunal Rathod**  
CSE Dept

## ISTE Faculty Membership Details

Sr.No	Name of the Faculty	Branch	ISTE Membership No
1	Prof.Kalpita Kaurase	Aeronautical Engineering	LM98032
2	Ms.Darshika Khawase	Aeronautical Engineering	LM94179
3	Dr.Sanjay Nikhade	Aeronautical Engineering	LM49237
4	Anup Gade	Information Technology	LM66504
5	Sarvesh Warjurkar	Information Technology	LM113092
6	Jayant Rohankar	Information Technology	LM94173
7	Abhay Rewatkar	Information Technology	LM94183
8	Prof.Pragati patil	Computer Science & Engineering	LM94699
9	Prof. Sandeep Gaikwad	Civil engineering	LM-40372
10	Prof. Amey Khedikar	Civil engineering	LM-94730
11	Prof. Sanjay Bhadke	Civil engineering	LM-1917
12	Prof. Milind Khamgaonkar	Civil engineering	LM-86335
13	Prof. Priyanka Petkar	Civil engineering	LM-94152
14	Mr. Pratik Ghutke	Electrical Engineering	LM113094
15	Dr.Prashant Thakre	Electrical Engineering	LM 31035
16	Ms. Sneha Tibude	Electrical Engineering	LM 116304
17	Ms.Rohini Pochhi	Electronics and Communication	LM94707
18	Mr.Rahul Dhutur	Electronics and Communication	LM84597
19	Mr.Sandeep Thakre	Electronics and Communication	LM66518
20	Dr.Pravin Tajne	Electronics and Communication	LM82648
21	Mr.Kushal Masarkar	Electronics and Communication	LM55203
22	Mr.Deepak Bhojar	Electronics and Communication	LM53204
23	Mr.Ritesh Banpurkar	Mechanical Engineering	LM116295
25	Ms.Dipali Boyar	Mechanical Engineering	LM116299
26	Ms.Darshika Khawase	Mechanical Engineering	LM94179
27	Mr.Gaurav Nagdeve	Mechanical Engineering	LM116302
28	Mr.Praful Randive	Mechanical Engineering	LM82224
29	Mr.Vishwjeet Amabde	Mechanical Engineering	LM113087
30	Mrs. Shubhangi Gondane	Mechanical Engineering	LM 113083
31	Mr.Niteen Kakade	Mechanical Engineering	LM94718
32	Mr.Vijay Talodhikar	Mechanical Engineering	LM113085
33	Mr.Sanjay Nikhade	Mechanical Engineering	LM49237
34	Mr. Nadir Hussain	First Year	LM94164

## ISTE 2022-23 Students Membership details

Sr.No	Name of the Faculty	Branch	ISTE Membership No
1	GANIKA BHIKU GAJBHIYE	Aeronautical Engineering	MH177 001474
2	SAKSHI A. YELMALWAR	Aeronautical Engineering	MH177 001475
3	TANU KISHOR MESHRAM	Aeronautical Engineering	MH177 001476
4	ANKIT SANJAY CHAWHAN	Aeronautical Engineering	MH177 001477
5	DUSHYANT AKANT KALAR	Aeronautical Engineering	MH177 001478
6	MANISH M. KOTAWAR	Aeronautical Engineering	MH177 001479
7	PRASHIK P. SURYAWANSHI	Aeronautical Engineering	MH177 001480
8	SAHIL M. TANDEKAR	Aeronautical Engineering	MH177 001481
9	TUSHAR D. SHENDE	Aeronautical Engineering	MH177 001482
10	UTSAV DEVIDAS NINAVE	Aeronautical Engineering	MH177 001483
11	YUVRAJ MUNJA SOLANKE	Computer Science and Engineering	MH177 001484
12	DIKSHA ANIL KARPE	Computer Science and Engineering	MH177 001485
13	DIVYA PRAMOD ZADE	Computer Science and Engineering	MH177 001486
14	KOYAL C. KOLHE	Computer Science and Engineering	MH177 001487
15	PRAGATI N. JAMBHULE	Computer Science and Engineering	MH177 001488
16	SAUMYA S. MALLELWAR	Computer Science and Engineering	MH177 001489
17	SHIVANI P. KHERDE	Computer Science and Engineering	MH177 001490
18	SHRUTI D. KUMBHARE	Computer Science and Engineering	MH177 001491
19	SUHANI M.PATLE	Computer Science and Engineering	MH177 001492
20	TRUSHNA DIPAK TONGE	Computer Science and Engineering	MH177 001493
21	VEDANGI PANKAJ GHODE	Computer Science and Engineering	MH177 001494
22	ABHINAV M.CHAVAN	Computer Science and Engineering	MH177 001495
23	ADITYA P.GADBAIL	Computer Science and Engineering	MH177 001496
24	BHAVESH R. UGALE	Computer Science and Engineering	MH177 001497
25	NAVNATH S. SURNAR	Computer Science and Engineering	MH177 001498
26	PRANJAL A.RAMIDWAR	Computer Science and Engineering	MH177 001499
27	RUSHIKESH N.BAHEKAR	Computer Science and Engineering	MH177 001500
28	SAHIL NARESH JARONDE	Computer Science and Engineering	MH177 001501
29	SAURABH B.PADOLE	Computer Science and Engineering	MH177 001502
30	ANURAG N.KOHADKAR	Electrical Engineering	MH177 001503
31	ARYAN DAYALU LONARE	Electrical Engineering	MH177 001504
32	ASHIK V. MESHRAM	Electrical Engineering	MH177 001505
33	ASTIK ASHOK GOUPALE	Electrical Engineering	MH177 001506
34	HARSHAD Y. KATHANE	Electrical Engineering	MH177 001507
35	HARSHANK S. KOHAD	Electrical Engineering	MH177 001508
36	KRISHNA K. BAWANE	Electrical Engineering	MH177 001509
37	MAYUR S. MESHRAM	Electrical Engineering	MH177 001510
38	NIRAJ H. NAGPURE	Electrical Engineering	MH177 001511
39	NIRANJAN R. MUDULI	Electrical Engineering	MH177 001512
40	OM VINOD HADGE	Electrical Engineering	MH177 001513
41	PRAFUL ANIL KORDE	Electrical Engineering	MH177 001514
42	PRAJWAL P. TELANGE	Electrical Engineering	MH177 001515
43	PRAJWAL P. KUTARMARE	Electrical Engineering	MH177 001516
44	PRAVIN D. NAIK	Electrical Engineering	MH177 001517
45	ROHIT N.KAREMORE	Electrical Engineering	MH177 001518
46	SAHIL S. GUNDAJWAR	Electrical Engineering	MH177 001519
47	SANKET VILAS PULATE	Electrical Engineering	MH177 001520

48	TUSHAR VIJAY THAKRE	Electrical Engineering	MH177 001521
49	VAISHNAV J. WASNIK	Electrical Engineering	MH177 001522
50	ARYAN S. TALHAR	Electronics and Communication Engineering	MH177 001523
51	AYUSH R. LONARE	Electronics and Communication Engineering	MH177 001524
52	GAURAV S. JADHAV	Electronics and Communication Engineering	MH177 001525
53	HARSH M. KURVE	Electronics and Communication Engineering	MH177 001526
54	MANISH S. NIWANT	Electronics and Communication Engineering	MH177 001527
55	NIKHIL G.LANDGE	Electronics and Communication Engineering	MH177 001528
56	PRATHAM G. KAWALE	Electronics and Communication Engineering	MH177 001529
57	SHRIKANT P. WANODE	Electronics and Communication Engineering	MH177 001530
58	VAIBHAV B. HATTEKAR	Electronics and Communication Engineering	MH177 001531
59	VAIBHAV V. POLE	Electronics and Communication Engineering	MH177 001532
60	VAIBHAV Y.T BORKAR	Electronics and Communication Engineering	MH177 001533
61	PRIYA R. SANGODE	Bio Technology	MH177 001534
62	SAMIKSHA M.BORKAR	Bio Technology	MH177 001535
63	SHREYAL R. SUKHADEVE	Bio Technology	MH177 001536
64	TRUPTI VINESH UIKEY	Bio Technology	MH177 001537
65	ABHINAV V. WATANDAR	Bio Technology	MH177 001538
66	GANESH G. NARAD	Bio Technology	MH177 001539
67	GANESH M. BALPANDE	Bio Technology	MH177 001540
68	MOHIT R. BADOLE	Bio Technology	MH177 001541
69	TUSHAR S. GAJBE	Bio Technology	MH177 001542
70	VIVEK H. RATHOD	Civil Engineering	MH177 001543
71	AAYNA D. TEMBHURKAR	Civil Engineering	MH177 001544
72	APURVA A. WANKHEDE	Civil Engineering	MH177 001545
73	KETAKI D.THIKARE	Civil Engineering	MH177 001546
74	PAYAL J. THERE	Civil Engineering	MH177 001547
75	PRACHI R.WANKHADE	Civil Engineering	MH177 001548
76	PRADNYA R. SUKHADEVE	Civil Engineering	MH177 001549
77	SALONI M. PATLE	Civil Engineering	MH177 001550
78	VAISHNAVI S. KADWE	Civil Engineering	MH177 001551
79	VIJAYA G. CHAVHAN	Civil Engineering	MH177 001552
80	AKSHAY S. RAUT	Civil Engineering	MH177 001553
81	ANIL SATISH MODI	Civil Engineering	MH177 001554
82	CHAITANYA A. DAULATKAR	Civil Engineering	MH177 001555
83	GANESH N. TIGHARE	Civil Engineering	MH177 001556
84	KRISH V. SONEWANE	Civil Engineering	MH177 001557
85	KUNDAN L. SURYAWANSHI	Civil Engineering	MH177 001558
86	MANDAR V. THAKRE	Civil Engineering	MH177 001559
87	MANTHAN A. YAWALKAR	Civil Engineering	MH177 001560
88	RAJ C. BAWANKULE	Civil Engineering	MH177 001561
89	TANMAY P.WASEKAR	Civil Engineering	MH177 001562
90	BHAGYASHWRI V. THORAT	Information Technology	MH177 001563
91	DAKSHATA M. BHENDE	Information Technology	MH177 001564
92	DINESH U. RUTUJA	Information Technology	MH177 001565
93	KHUSHI S. GANVIR	Information Technology	MH177 001566
94	PRATIKSHA S. ADE	Information Technology	MH177 001567
95	SIMRAN R. KURIL	Information Technology	MH177 001568
96	ADITYA K. MATTE	Information Technology	MH177 001569
97	HIMANSHU D. SHENDE	Information Technology	MH177 001570



98	PRATIK V.SABLE	Information Technology	MH177 001571
99	SANJANA BABLU AJIT	Mechanical Engineering	MH177 001572
100	SANYUKTA S.GHANMODE	Mechanical Engineering	MH177 001573
101	SHRUNGALI N. MESHRAM	Mechanical Engineering	MH177 001574
102	TANU P. GORE	Mechanical Engineering	MH177 001575
103	AJAY J. NANHE	Mechanical Engineering	MH177 001576
104	ANOKH S. MOHEKAR	Mechanical Engineering	MH177 001577
105	DARSHAN D.GAIDHANE	Mechanical Engineering	MH177 001578
106	DEEPANAND K. DHURVE	Mechanical Engineering	MH177 001579
107	KARTIK D. BAGDE	Mechanical Engineering	MH177 001580
108	NIKESH R. BOPCHE	Mechanical Engineering	MH177 001581
109	OMKAR A NAWGHADE	Mechanical Engineering	MH177 001582
110	PRAVIN A. PRADHAN	Mechanical Engineering	MH177 001583
111	SANYAM R. LOHAKARE	Mechanical Engineering	MH177 001584
112	SAURAV A. SHAHARE	Mechanical Engineering	MH177 001585
113	SHUBHAM G.SATPUTE	Mechanical Engineering	MH177 001586
114	SIDDHANT V. TIJARE	Mechanical Engineering	MH177 001587
115	TARUN R. KHANGAR	Mechanical Engineering	MH177 001588
116	TEJAS B. GONDANE	Mechanical Engineering	MH177 001589
117	YASH R. WASNIK	Mechanical Engineering	MH177 001590

## ISTE FACULTY CHAPTER 2022-23

### **NAAC Sponsored Two Days National Level Workshop Conducted by Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur**

Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur has organised NAAC sponsored two days National Level Workshop on "Role of IQAC in Quality Enhancement and Sustainability" on 14th and 15th October, 2022. The inaugural function was held on 14th October, 2022 in Hybrid Mode at JRD Tata Hall TGPCET, Nagpur. The Chief Guest of Inaugural function was Hon'ble Dr. Amit Dutta, Director, SDC, AICTE, New Delhi present in Online Mode. Guest of Honour was Hon'ble Dr. Sanjay Dudhe, Pro-Vice Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur along with Treasurer GPPI & Convener of the workshop Prof. Sandeep Gaikwad, Ms. Deepanti Pal, Director GPPI, Dr. A.V. Kale, Principal, TGPCET, Prof. Anup Gade, In-charge Vice Principal and Dean Academics, Director Finance Mrs. Surekha Raut, Dean IQAC Dr. Shubhangi Gondane and Co-convener of the workshop Dr. Pravin Tajane. Hon'ble Dr. Sanjay Dudhe explained that we need horizontal development not only vertical development.



Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur has organised NAAC sponsored two days National Level Workshop on "Role of IQAC in Quality Enhancement and Sustainability" on 14th and 15th October, 2022.

The Valedictory function was held on 15th October, 2022 at JRD Tata Hall TGPCET, Nagpur.



**Valedictory Function of NAAC Sponsored Workshop in TGPCET, Nagpur**

## **Motivational Talk on Technical Education for Global Vision**

### **Motivational Lecture:**

Technical Education for Global Vision

### **Speaker:**

Hon'ble Dr. Pratapsinh K. Desai, President, ISTE, New Delhi.

Hon'ble Dr. Ranjit Sawant, Chairman, ISTE Maharashtra Goa Section.

Hon'ble Dr. Rajeshree Raut, Associate Professor and HOD in ECE, GCOE, Nagpur.

Hon'ble Dr. Chandrahas C. Handa, ISTE Member.

### **About Program:**

To enhance the performance level in ISTE of all the staff members and to stay innovative and motivated. ISTE, TGPCET has jointly organized a motivational lecture on "Technical Education for Global Vision" for all the staff members of GPGI by Dr. Pratapsinh K. Desai, President, ISTE, New Delhi.

All of the tips given in the session seemed very useful and efficient to professional life. The participants of the workshop had a wonderful experience during various practice and exercises.

The session gave the faculty members an opportunity to learn how to manage stress in their daily lives.



"Inauguration & Lamp; Lighting of Ceremonial lamp" by Hon'ble Dr. Pratapsinh K. Desai, President, ISTE, New Delhi, Hon'ble Dr. Ranjit Sawant, Chairman, ISTE Maharashtra Goa Section, Hon'ble Dr. Rajeshree Raut, Associate Professor and HOD in ECE, GCOE, Nagpur, Hon'ble Dr. Chandrahas C. Handa, ISTE Member, Hon'ble Dr. Anil Kale, Principal TGPCET



Address by Chief Guest in Technical Education for Global Vision



Felicitation of Chief Guest Hon'ble Dr. Pratapsinh K. Desai, President, ISTE, New Delhi by the hand of Dr. Anil Kale, Principal, TGPCET



Felicitation of Chief Guest Hon'ble, Dr. Ranjit Sawant, Chairman, ISTE Maharashtra Goa Section, by the hand of Dr. Prashant Kadu, IIL TGPCET

## Report on ISTE Sponsored One week FDP on – “3D Printing and its Application in industry 4.0”

### Description of FDP

The Mechanical department organized one week FDP on -3D Printing and its Application in industry 4.0 in Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur in Online mode. The Institute is pleased to accept the opportunity given by ISTE to organize the said FDP. The FDP was organized from 16-05-2023 to 20-05-2023 as submitted in the proposal by abiding all the guidelines given by ISTE. Total 150 numbers of participants registered, 87 participants were from Maharashtra other than Nagpur and 60 participants were from Nagpur, rest 27 participants were from other states.

### Inauguration Function

Day One of FDP on 3D Printing and its Application in industry 4.0 was organized at Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur campus in Online Mode. The FDP was organized under IQAC and Mechanical Engineering Department. The main aim of the FDP was to improve ISTE members in the participant's Institute and Awareness about 3D Printing and its Application in industry 4.0 and its benefits to Higher Education Institute (HEIs). The other objective of the FDP was to identify best practices that will help in enhancing quality standard 3D printing applications and use of industry 4.0 to enhance the industry innovations.

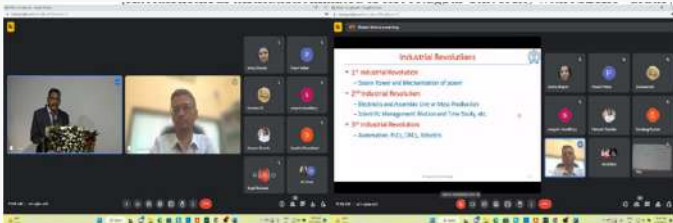
The inaugural function was held on 16th May, 2023 in online Mode at JRD Tata Hall of the Institute. The Chief Guest of inaugural function was Hon'ble Dr. Rakesh Mote, Associate Professor, IIT Bombay Powai, Mumbai. He was present in online mode. Guest of Honour was Hon'ble Dr. Rakesh Mote, along with Treasurer GPGI & Prof. Sandeep Gaikwad, Ms. Deepanti Pal, Director GPGI, Convener of the FDP Dr. A.V. Kale, Principal, TGPCET, Co-convener of the FDP Prof. Pagrati Patil In-charge Vice Principal, Prof. Anup Gade, Dean Academics, Director Finance Mrs. Surekha Raut, Dean IQAC Prof. Ritesh Banpurkar and Co-ordinator of the FDP Dr. Vijay Talodhikar (HoD) Mechanical engineering department. The Program began with Invocation to Almighty and followed by the soulful prayer song. The Floral welcome was given by Dr. Vijay Talodhikar, HoD Mechanical engineering department to the Guest of Honour, Hon'ble Dr. Rakesh Mote, Associate Professor, IIT Bombay Powai, Mumbai. The Welcome Speech was given by Treasurer GPGI & Convener of the FDP Prof.

Sandeep Gaikwad and introduction to the guests was given by the anchor Prof. Dipali Bhojar. After the floral welcome of the Dignitaries, Dr. A.V. Kale, Principal, TGPCET introduced the theme of this FDP and the objectives behind organizing the FDP. Hon'ble Dr. Rakesh Mote explained that we need horizontal development not only vertical development like weaker students should be stand up with topper students. He said that we should utilize old resources where it is useful for present as well as future generation. He said that faculty expertization in their field and placements of students are the two key points which are responsible to attract more students to our Institute. He said that we should concentrate on the environment saving initiatives like Green Revolution and Pollution Control etc.



## Day 1 Session –I

**Session –I** was delivered by Dr. Nitin Kumar Lautre, Associate Professor, Mechanical Engineering Department, VNIT, Nagpur on “Metal additives Manufacturing using Cold Metal Transfer”. He explained about Current additive manufacturing techniques are often based on laser or electron beam processes with powder consumables. These can offer high precision, but are relatively slow techniques. The use of arc welding allows the deposition rates to be greatly improved, although with a loss of precision. Cold metal transfer (CMT) is a low heat input variant of the metal inert gas (MIG) process in which the current carrying wire is mechanically oscillated to provide controlled dip transfer. The arc welding technique is particularly suited to the deposition of aluminium due to the high reflectivity making it traditionally, a difficult material to deposit with laser processes. He explained about test structures were performed using the CMT process, as this possesses certain characteristics that make it excellent for controlled deposition. The mechanical wire control leads to low spatter, which is important for minimizing the amount of post process machining and the low heat input nature of the process results in minimal melting of the substrate material or prior runs.



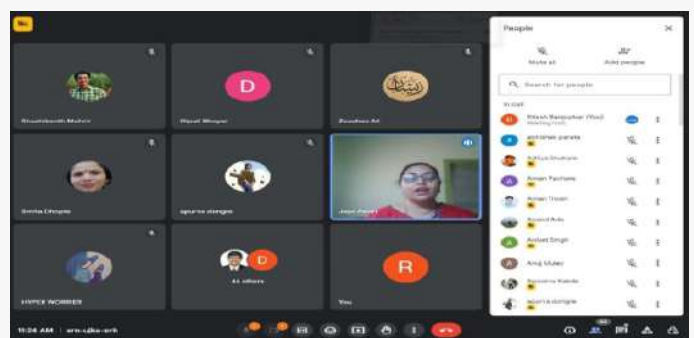
## Day 1 Session –II

**Session –II** was delivered by Dr. G.K.Awari, Professor & Head Automobile Engineering Department, Government Polytechnic, Nagpur on “Case study on 3D printing”. He explained about Additive manufacturing, rapid prototyping, how does it work, history of 3D printing, powder sintering, hybrid, development of 3D printing. He explained project growth with advantages like design complexity, speed, customization, tool less, extreme light weight design, sustainable/environmentally friendly, no storage cost and increased employment.

Also he focused on some disadvantages like material cost, material properties, support material removal, limitation of raw material, cost of printers, limitation of size and design parameters. He explained about uses and examples of 3D printing, concept of modeling, manufacturing tool, endues parts and finishing. He focused on different application of 3D printing and explained some of case studies.

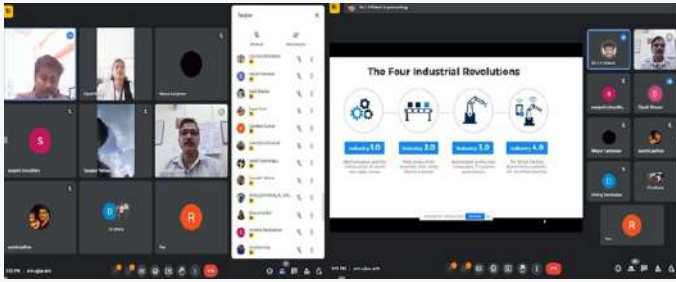


**Session –I** was delivered by Mrs. Jaya G. Awari, Meditation Trainer, Nagpur on “Meditation techniques for peaceful life”. She explained about We are living in the dawn of a new beginning. Traditional religious and spiritual ways are in decline and new ways are replacing them. This is happening because people want inner peace, not just promises of inner peace. People want to experience what is sacred directly, not through the words of middlemen. People want lives filled with love and fellowship, not lives filled with stress and separation. People want communities that truly have their back, not communities that let the powerful prey on them. This web site provides tools for this new beginning. She explained about the real source of happiness is inner peace. If our mind is peaceful, we will be happy all the time, regardless of external conditions, but if it is disturbed or troubled in any way, we will never be happy, no matter how good our external conditions may be. External conditions can only make us happy if our mind is peaceful. We can understand this through our own experience. For instance, even if we are in the most beautiful surroundings and have everything we need, the moment we get angry any happiness we may have disappears. This is because anger has destroyed our inner peace.



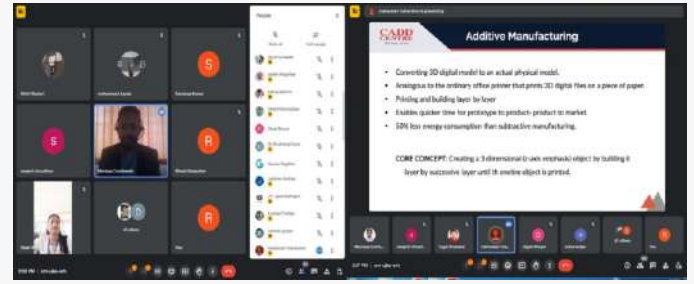
## Day 2 Session –II

**Session –II** was delivered by Dr. Sanjay Rajurkar, Associate Professor, Mechanical Engineering Department, Government college of Engineering, Chandrapur on “Application of 3D printing in industry 4.0”. He explained about 3D printing is one of the fundamental elements of Industry 4.0. But before considering the role of additive manufacturing, it is first necessary to understand what Industry 4.0 is. Industry 4.0, or the fourth industrial revolution, consists of the automation and digitization of industry and all business-related processes. Industrial revolutions occurring throughout history have been defined by the characteristics of the different emerging technologies of each moment. These characteristics and the new technologies change the industry's methods of production at great speed. At the same time they incite economic and social change, profoundly transforming humanity and how it has evolved.



## Day 3 Session –II

**Session –II** was delivered by Mr. Murtaza Cochinwala, Institute of Industrial Design, Nagpur on “Hands on Training on 3D printing”. He explained about 3D printing refers to the manufacturing process that additively forms or creates a physical object from a digital design. There are various 3D printing technologies and materials, and all are based on the same principle wherein a digital model is reshaped into a solid three-dimensional object by adding layer after layer. He explained about that this will demonstrate the workings of 3D printers and impart skills involved in creating a CAD model and converting it into a three-dimensional object. You will be aware of different types of 3D printing technologies such as stereo lithography, selective laser sintering, and fused deposition modeling. Upon the completion of this course, students will have a solid understanding of 3D printing, its potential, and the ability to print 3D designs. Training will cover the following key aspects: Understanding the design aspects of the 3D printable file, the process of a consumer-level 3D printer, FDM methodology, 3D printing case studies, Materials for Consumer 3D Printing.



## Day 4 Session –I

**Session –I** was delivered by Dr. Abhijeet Kesharao Digalwar, Professor and Research Head, Symbiosis International Pune, Nagpur Campus on “Readiness of Indian manufacturing Organizations for industry 4.0”.

He explained about the complete manufacturing ecosystem is undergoing a phenomenal shift with technological advancements happening at a fast pace. The need to understand and adopt the advanced manufacturing techniques is the need of the hour. In current times, Industry 4.0 is talked about at various levels. Automotive sector being the key driver for many technological advances, is now looking and exploring the ways to understand and internalize the same. The Government of India's push to manufacturing through the “Make in India” initiative has garnered considerable attention from the industry and brought the spotlight back on the manufacturing sector. It is now formulating a National Policy for Advanced Manufacturing, which would be one of the key tools to attain its objective of increasing the contribution of manufacturing output. Consideration is being given to the framework for introduction of 'Industry 4.0'. There will be tremendous impetus towards modern manufacturing including advanced materials, advanced robotics and 3D printing, among others.



**Session –II** was delivered by Dr. Vishal Shukla, Associate Professor, Mechanical Engineering Department SRCOEM, Nagpur on “Design for Additive Manufacturing:

**Day 4 Session –I** A view on slicing for FDM Vs SLA”. He explained about additive manufacturing or 3D printing, lowers costs, saves time, and transcends the limits of fabrication processes for product development. From concept models and functional prototypes in rapid prototyping to jigs, fixtures, or even end-use parts in manufacturing, 3D printing technologies offer versatile solutions in a wide variety of applications.



#### Day 4 Session –III

**Session –III** was delivered by Dr. Rashami Udanwadikar Associate Professor, Mechanical Engineering

Department, VNIT, Nagpur on “Applications of 3D printing in Biomedical”. He explained about the medical industry uses 3D printing to create critical items, such as medical equipment, devices, and prosthetics. In order to print, objects first need to be designed using specialized 3D software. Once you have a 3D model, you can use the software as a viewer to see detailed, three-dimensional images of customized equipment and patient scans. He explained about when working on customized equipment, you and your team can look over and collaborate on the designs to ensure that they're perfect for your desired application before spending any real-time, money, or material on printing. He explained about some medical professionals use 3D software even if they don't plan on printing. It's a helpful way to visualize projects and scans to develop a strategy for upcoming medical procedures. He explained about there's a wide variety of 3D modeling software on the market, so there's no one-size-fits-all solution and you need to know what you need most. He explained about do you only need to print, or are you looking for a software that offers more detailed visuals? Perhaps you need a combination of both? There's no right answer, so it's important to take your time and weigh the pros and cons of each software to determine which one is right for your practice.



#### Day 5 Session –I

Session –I was delivered by Dr. Santosh Jaju, Deputy Director and Dean, (R & D) G.H. Raison College of Engineering, Nagpur on “3D printing – A boon to manufacturing”. He explained about 3D printing technology is a boon for the manufacturing world, and it's bringing a transforming change. It offers greater versatility, efficiency, and sustainability, which conventional processes cannot match. Now, getting started with additive manufacturing has also become quick. He explained that earlier, printing technology was only limited to plastics. However, with the advent of new technologies, 3D printers can now print with various materials like metals and resins.



#### Valedictory Function

Valedictory function was graced by Hon'ble Dr. Rakesh Mote, Associate Professor, IIT Bombay Powai, Mumbai as Chief Guest. The floral welcome to the Chief Guest was given by Dr. Vijay Talodhikar, HoD Mechanical Engineering Department. The report reading of FDP comprising of entire 5-days session-wise summary was presented by the anchor Prof. Dipali Bhoiyar.



## ISTE STUDENT CHAPTER SESSION 2022-23 INTER DEPARTMENTAL PROJECT COMPETITION “TANTRA-VIGYAN ”

### Interdepartmental Project Competition: “TANTRA-VIGYAN”

#### Guest:

Mr. Bhupendra Ukinkar (Director “Wings Tech”, Nagpur).  
Mr. Manish Maokar (Manager “D.S. Electricals”, Nagpur).  
Mr. Suraj Ghodmare (Salesforce Developer “Price Waterhouse Coopers”).  
Mr. Manish Bawankule (Senior Geotechnical Engineer, Monarch Surveyors & Engineering Consultant Pvt.Ltd.).  
Mr. Yogesh G.Ghaumal (Managing Director, Br.Sheshrao Wankhede, S.S.S Girni Ltd. Nagpur) .

#### About the Event:

To enhance the performance level in ISTE of all the Students members and to stay innovative and motivated. ISTE of TGPCET organized Interdepartmental Level project competition focused on programs organized under the umbrella of the International Society for Technology in Education (ISTE). The competition aimed to showcase innovative and impactful programs developed by participants that align with ISTE's mission and goals. This report highlights the objectives, structure, participants, outcomes, and overall impact of the program competition.

#### Track of Events:-

Project Competition is Categorized into Four Tracks such as

1. Electronics and Communication & Electrical Engineering Department
2. Computer Science Engineering & Information Technology Department
3. Civil Engineering Department
4. Mechanical Engineering Department



“Inauguration of Event Inter-Department Project Competition”



“Prize Distribution of Winners in Inter Department Project Competition”



“Chief Guest in Inter Departmental Project Competition”



Prize Distribution of Winners in Inter Department Project Competition



## Tulsiramji Gaikwad Patil College of Engineering and Technology



THE Indian Society of Technical Education (ISTE), TGPCET Student Chapter, organised central-level project competition for students of TGPCET at JRD Tata Hall. The programme commenced with an inaugural ceremony graced by the chief guest and judge, Ashok Wathore, an industry expert, and Dr Sandeep Gaikwad, Treasurer GPGI, along with faculty members and students. The judges carefully evaluated each project based on its technical merit, innovation, and practical applicability. After a rigorous evaluation process, the judges announced the three best projects from the college level. The winners of the central-level project competition are: - First: Bharti Khande & group (IT), Second: Aditya Patil & group (ECE), Third: Suraj Bhagat & group (EE). The successful organisation of the competition was done under guidance of Dr G K Awari, AICTE Margdarshak, Prof Pragati Patil, Vice-Principal TGPCET, and Prof Ritesh Banpurkar, Dean, IQAC.

## Community News



Winners of project group category in inter-department project competition being presented first prize.

## Tantra Vigyan-2023 inter-dept competition held at TGPCET

The Tantra Vigyan-2023 Inter Departmental Level Project Competition was held at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur recently. Project with title 'Decentralised Ecosystem for NFTs Transaction Using Blockchain Technology' of the IT Department won first place in the competition. The project was designed and implemented by a group of final year students Ketan Dabre, Sagar Wandile, Bharati Harinkhede and Vaishali Ajbaile under the guidance of Poonam Keche, Assistant Professor, Department of IT. The

winners of the competition were presented medals and certificates with the hands of guest and judge of event industry expert Ashok Wathore. Chairman of GPGI Dr Mohan Gaikwad motivated to organize the event. Prof Sandeep Gaikwad, vice-principal Prof Pragati Patil, director (academics) Dr Suresh Salankar, dean (academics) Prof Anup Gade, dean (IQAC) Prof Ritesh Banpurkar and coordinator of ISTE chapter Prof Darshika Khawase, was present during the programme. All faculty coordinators of ISTE chapter took efforts to successfully conduct the event.

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## छायांकित

माझा जिल्हा

## नावीन्यपूर्ण प्रयोग बघून तज्ज्ञांकडून विद्यार्थ्यांवर कौतुकाचा वर्षाव



गुमगाव : इंडियन सोसायटी ऑफ टेक्निकल एज्युकेशन (आयएसटीई), स्टुडेन्ट्स चॅप्टर आणि तुळशीरामजी गायकवाड पाटील अभियांत्रिकी व तंत्र महाविद्यालयाच्या वतीने मोहगाव येथील डॉ. जेआरडी टाटा सभागृहात केंद्र स्तरीय प्रकल्प स्पर्धेचे आयोजन करण्यात आले होते. स्पर्धेचे उदघाटन उद्योजक अशोक वाठोरे, कोषाध्यक्ष डॉ. संदीप गायकवाड यांच्या हस्ते झाले. यावेळी परीक्षकांनी विद्यार्थ्यांशी संवाद साधला. परीक्षक व पाहुण्यांनी प्रत्येक प्रकल्पाचे तांत्रिक गुणवत्तेवर आधारित, नावीन्यपूर्णता आणि व्यावहारिकता यावर आधारित काळजीपूर्वक मूल्यांकन केले. कठोर मूल्यमापन प्रक्रियेनंतर परीक्षकांनी महाविद्यालयीन स्तरावरील तीन सर्वोत्तम प्रकल्पांची घोषणा केली. केंद्रीय स्तरावरील प्रकल्प स्पर्धेचे विजेते म्हणून प्रथम क्रमांक भारती खांडे गट (आयटी), द्वितीय क्रमांक आदित्य पाटील गट (ईसीई), तर तिसरा क्रमांक सूरज भगत गट (ईई) यांना प्रदान करण्यात आला. स्पर्धेच्या आयोजनासाठी डॉ. जी. के. आवारी, उपप्राचार्य प्रा. प्रगती पाटील, आयक्यूएसीचे डीन प्रा. रितेश बनपूरकर यांनी परिश्रम घेतले. जुही रामटेके यांनी सूत्रसंचालन केले, तर अबू लोबाना झैदी यांनी आभार मानले.

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## World Space Week 2k22 celebration under the theme “Space and Sustainability” Organized by Department of Aeronautical Engineering

### Date:

4th to 10th October, 2022

### Speaker:

Dr. Prashant Kadu, Director IIL, GPPI

Prof. Kalpit P. Kaurase, HOD (AE), TGPCET

### About Program:

To main aim of organizing world space week celebration was to develop the team membership and leadership qualities of students for organizing the events and competitions and to generate the awareness about the importance of “Space and Sustainability” and World Space Week celebration among the students. The schedule of different events conducted from 4th to 10th October, 2022 during World Space Week 2K22 celebration.



Closing Ceremony



Water Rocket Competition



Prize Distribution and Closing Ceremony



Students exhibiting their painting of Competition



Aircraft Model Exhibition during Aircraft Model Content



Opening Ceremony

## Workshop: On “Introduction to Lighter than Air Systems” Organized by Department of Aeronautical Engineering

Department of Aeronautical Engineering has successfully conducted 2 days National Level Workshop on “Introduction to Lighter than Air Systems” by Dr. Rajkumar Pant, Professor, IIT-Bombay on 27th and 28th January, 2023. On 27th January, 2023 (1st Day) 4 sessions were conducted from 11:00 AM - 5:00 PM in which following topics were elaborated:

**Day-1\_Session-1:** Introduction to LTA Systems- Dr. Pant briefly explained different types of LTA systems, its applications and also elaborated salient features and limitations of Airships, Aerostats and Hot Air Balloons. Also, sir explained basic principles required for design calculations required for LTA systems.

**Day-1\_Session-2 and 3:** Sizing of remotely controlled Indoor Airships- Dr. Pant gave a problem statement for developing indoor airship with Payload capacity of 250 grams, total envelope length = 3.5 meters and electric power (battery) and briefly explained design methodology for developing each and every components of airship including envelope sizing, surface area estimation, tail sizing, motor weight estimation, avionics selections and weight estimation. Also, sir briefed about the entire fabrication process for building indoor Airship.

**Day-1\_Session-4:** Remote Controlled Airships developed at IIT-Bombay- Dr. Pant formally introduced LTA systems laboratory developed by Dr. Pant at IIT -Bombay and explained various projects completed and undergoing at the laboratory. Sir, also invited students to register for internships at IIT -Bombay and also informed students various project opportunities available at LTA systems Laboratory.

On 28th January, 2023 (2nd Day) 3 sessions were conducted from 10:15 AM - 3:30 PM in which following topics were elaborated:

**Day-2\_Session-1:** Tutorial on Aerostatic Lift Estimation- Dr. Pant divided the participants into 3 teams and gave individual Airship envelope geometries NPL, GNVR and LYNX and guided all three teams to estimate the aerostatic lift for their individual envelope shape. Also, comparative analysis of aerostatic lift of all three envelopes were carried out.

**Day-2\_Session-2:** Tutorial on Airship Sub-system Sizing- Dr. Pant gave material choices for different sub-systems of airships to Team NPL, GNVR and LYNX and guided all three teams to estimate sizing of sub-systems and weight estimations of every component. Also, the comparative analysis of weight, sizes and aerostatic lift generated by every component of NPL, GNVR and LYNX envelope profiles were carried out.

**Day-2\_Session-3:** Sensitivity Analysis and Tips for Fabrication- Dr. Pant sir exhibited the excel sheets and codes developed by students of LTA Lab and explained how to carry out reverse calculations as per the requirements of particular applications.



Expert delivering presentation to the students



Workshop coordination team and Expert



Presenting Memento to Dr. Rajkumar Pant



Presenting Gratitude Letter to Dr. Rajkumar Pant

## Expert Lecture on “Global Perspective and Career in Aviation” Organized by Department of Aeronautical Engineering

### Date:

30th April 2022

### Speaker:

Dr. Anupreet Singh, Vice-President (Operations),  
Asia Pacific, Commercial Aviation, Singapore

### Organized by:

Department of Aeronautical Engineering in association  
with Aerocious, ISTE and IE(India)

### About Program:

To main aim of organizing this expert lecture was to provide information on global scenario of job opportunities in aviation sector and to provide information on global perspective of aviation post pandemic. Dr. Anupreet Singh, Vice-President (Operations), Asia Pacific, Commercial Aviation, Singapore delivered expert lecture on “Global Perspective and Career in Aviation”. He emphasized on the change in scenario of aviation sector after pandemic and provided information on job opportunities available in different parts of the world in aviation sector.



## Industrial Visit: “Industrial visit to AAR-Indamer Technics Pvt Ltd, Nagpur” Organized by Department of Aeronautical Engineering

The Department of Aeronautical Engineering in association with Aerocious and ISTE conducted Industrial visit AAR-Indamer Technics Pvt Ltd, Nagpur on 4th and 6th December, 2022 for B.Tech. Aeronautical Engineering 2nd year and 3rd year students.

Department of Aeronautical Engineering in association with Aerocious, ISTE and IE(India) conducted industrial visit to AAR-Indamer Technics Pvt Ltd, Nagpur on 4th and 6th December, 2022. Students witnessed live CAT-C fourth day maintenance procedure of Airbus A-321 and second day maintenance procedure of Airbus A-320 aircrafts.



Live Maintenance Procedure of Airbus A-320



Maintenance procedures of VT-ELX aircraft  
of Geological Survey of India



Industrial Visit on 4th December, 2022



Industrial Visit on 6th December, 2022

**Site Visit: “CSIR-NEERI campus, Nagpur on the occasion of 81st CSIR Foundation Day”  
Organized by Department of Civil Engineering**

Civil Engineering Department of Tulsiramji Gaikwad–Patil College of Engineering and Technology, Nagpur (An Autonomous Institute), on the occasion of 81st CSIR Foundation Day, 26th September 2022 (Monday); organized an educational Site visit to CSIR-NEERI campus, Nagpur.



“Site Visit to CSIR-NEERI Campuson 81st  
CSIR Foundation Day (26.09.2022)

**Site Visit: “RMC Plant, Nuvoco Vistas Corp. Ltd. Nagpur” Organized by Department of Civil Engineering**

Civil Engineering Department of Tulsiramji Gaikwad–Patil College of Engineering and Technology, Nagpur (An Autonomous Institute), on date 2nd February 2023(Thursday); organized an Industrial Site visit to RMC Plant, Nuvoco Vistas Corp. Ltd. Nagpur.



“Site Visit to RMC Plant, Nuvoco Vistas Corp. Ltd., Nagpur (02.02.2023)

**Two-Day Workshop on “Introduction to Professional Practices in RCC Construction” Organized by Department of Civil Engineering**

Department of Civil Engineering under ARTEX Forum in association with IEI, ICI, ISTE has organized “Two-Day Workshop on Introduction to Professional Practices in RCC Construction” by Dr. S. K. Mahajan, Structural consultant and Director, Struct-e-Solutions Pvt. Ltd. Nagpur on 29-30 September, 2022.



“Two-Day Workshop on Introduction to Professional Practices in RCC Construction”



## Structural Analysis, Design and Detailing of G+5 Apartment using Tekla Structural Design” Organized by Department of Civil Engineering

Department of Civil Engineering under ARTEX Forum in association with IEI, ICI, ISTE has organized “Structural Analysis, Design and Detailing of G+5 Apartment using Tekla Structural Design Software” by Er. Atul K. Agade, Sr. Cadd faculty at Cadd Centre, Nagpur on 13th October, 2022.



“Structural Analysis, Design and Detailing of G+5 Apartment using Tekla Structural Design Software”

## Guest Lecture: Engineers' Day 2022, Celebration Organized by Department of Civil Engineering

Department of Civil Engineering under ARTEX Forum in association with IE(I) Students' Chapter have organized a Guest Lecture on the occasion of Engineers' Day 2022, Celebration delivered by Dr. Srikant Annavarapu, Director, Master Geotech Services Pvt. Ltd., Nagpur.



“Guest Lecture on Engineers' Day 2022, Celebration”



## Structural Analysis, Design and Detailing of G+5 Apartment using Tekla Structural Design” Organized by Department of Civil Engineering

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“Guest Lecture on Engineers' Day 2022, Celebration”

**Expert Lecture: “Recent Technologies in Waste Water Treatment with special emphasis on Moving Bed Bio Reactor (MBBR) Technology” Organized by Department of Civil Engineering**

Department of Civil Engineering under ARTEX Forum in association with IEI, ISTE and ICI have organized an Expert Lecture on Recent Technologies in Waste Water Treatment with special emphasis on Moving Bed Bio Reactor (MBBR) Technology delivered by Dr. O.N. Mukherjee Director, M/s O N Mukherjee Engineering Consultant, Nagpur



“Recent Technologies in Waste Water Treatment with special emphasis on Moving Bed Bio Reactor (MBBR) Technology”

**Site Visit to “Maha-Metro Bhawan Nagpur” is scheduled on 28-04-2023 at 10:00 AM. This Site Visit is being organized under ARTEX Forum in association with ISTE, IE(I) & ICI.**

In Site Visit Mr. Akhilesh Halve, DGM (CC) In Maha-Metro Rail corporation Nagpur and Miss. Rashmi Madankar were present during the site visit. They also explained work flow and the all information of Maha-Metro metro bhawan and various technologies used in construction of Maha-Metro Rail's. The Nagpur maha metro is one of the finest infrastructure registered in Guinness book world record. They explained about Topography, techniques of rain water harvesting and various technologies used in metro.



“Guest Lecture on Engineers' Day 2022, Celebration”

## Industrial Visit at “Shilpa Steel Industries Limited, MIDC Buttibori, Nagpur” Organized by Department of Mechanical Engineering

1. The students are given induction about the visit. They were briefed about the objective of organizing such type of visits.
2. Students from second and third year of the Mechanical Engineering Branch were selected for the visit.
3. Students were asked knowledge based questions on to know about the visit by searching it in the media. They were also asked to search the answer why such events are arranged by the organizing body.
4. Multiple Choice Questions based on the visit is prepared to check whether the visit was fruitful or not.



## Industrial Visit at “Br. SheshraoWankhedeShetkari Soot GirniLtd , Nagpur” Organized by Department of Mechanical Engineering

Students of third year & fourth year get highly motivated after the session of visit in soot girni and find out the session very useful for their future career perspective. Students got aware about yarn conform to the highest quality standards with respect to Uster Evenness, Neps and Classimat Faults. Performance of yarn during Warping, Weaving & knitting is of paramount importance and care is taken in achieving industries best performance. Product is checked and Re-Checked at every stage of production process to ensure Fault-Free product performance.



Students in front of Shilpa Steel Industries Limited, MIDC Buttibori

Industrial Visit arranged at Br. SheshraoWankhedeShetkari Soot GirniLtd Borkhedhi



Final Year Mechanical Engineering Students in the plant during interaction.

## Industrial Visit at Lokmat Printing Press, Industrial Area Butibori” Organized by Department of Mechanical Engineering



Industrial Visit in the Lokmat Printing Press Buttibori



Detailed information of process of plant shown by smart TV



Demonstrated Paper preparation process in Lokmat Printing Plant

## Industrial Visit to “Apiary Craft Beers Pvt. Ltd., MIDC Butibori” Organized by Department of Mechanical Engineering

On 11th November 2022, students of B.Tech Biotechnology, accompanied by faculty members, visited Apiary Craft Beers Pvt. Ltd., a leading craft beer manufacturing company located in the outskirts of the city. The purpose of the visit was to provide the students with practical knowledge of the beer manufacturing process and to understand the use of biotechnology in the production of craft beers.



## **EVENT- Two day Workshop on Python And Django by Computer Science Engineering Department**

Mr. Santosh Selokar , MD , SSIT Pvt. Ltd , Nagpur.  
Delivering Two day Workshop on Python And Django  
.This Workshop taught students regarding importance  
of Python and Django in industry .



## **Industrial Visit to “Apiary Craft Beers Pvt. Ltd., MIDC Butibori” Organized by Department of Mechanical Engineering**

## INDUSTRIAL VISITS IN SESSION 2022-23

### Department of Computer Science And Engineering organized the industrial visit for the final year & Third year students to Oberoi center

The purpose of this industrial visit is to connecting students with the industries so that students will be able to know the requirements of the industry and familiarize with various software technologies and emerging trends in the field of computer science .



Industrial Visit to “RCOEM-TATA CIIT, Ramdeobaba College of Engineering and Management, Nagpur

### Industrial Visit to “RCOEM-TATA CIIT, Ramdeobaba College of Engineering and Management, Nagpur

Department of Electronics and Communication Engineering in association with, ISTE and IEI (India) conducted industrial visit to RCOEM-TATA CIIT, Ramdeobaba College of Engineering and Management, Nagpur on 13th May. Students understand the process of making it is in the form of design, development & fabrication of innovative products. Students enables the competency development in modern engineering tools which is necessary for product design, development, manufacturing and provide the students to gain insights to Industry 4.0 and other disruptive technologies

Sharing the Glimpses of Industrial Visit to RCOEM-TATA CIIT, Department of Electronics and Communication Engineering conducted Industrial Visit to RCOEM-TATA CIIT,., Nagpur on 13th May for the students of B.Tech ECE 4th semester.



Industrial Visit to “RCOEM-TATA CIIT, Ramdeobaba College of Engineering and Management, Nagpur

## Industrial Visit : “Oberoi Centre of Excellence (OCE) for Robotics.”

ECE Department organized Industrial Visit in Oberoi Centre of Excellence (OCE) for the students of the Electronics & Communication Department, Tulsiramji Gaiwad-Patil College of Engineering and Technology, Oberoi Centre of Excellence (OCE) is a robotics centre with state of the art facilities under the aegis of the American-based ASEA Brown Boveri (ABB), a robotic tech major. The session commenced with a power point presentation to address about industrial robotics and cloud technology. The major manufacturers of robots, the various job prospects in robotics and their respective packages were also thrown light upon. The students also had the opportunity to witness the working of Material handling robot and Welding robot. The softwares used in the making of these voice operated robots were also discussed.



Industrial Visit : “Oberoi Centre of Excellence (OCE) for Robotics.”

## Industrial Visit Air Traffic Control (ATC)

### 1. AMSS system:

AMSS is a Automatic Message Switching System. Which is computer based system, centered on the Aeronautical Fixed Telecommunication Network (AFTN) for the exchange of aeronautical messages by means of auto-switching for distribution of messages to its destinations. This system works on the store and forward principle.

### 2. Radar:

Radar is a Radio Detection And Ranging. RADAR is use to air traffic control to enhance surveillance radar monitoring and separation of air traffic. It consist of rotating ground antenna and transponders in air craft, also used to determine the distance (ranging) ,angle and radial velocity of aircraft.

### 3. Automation System:

In automation system works on SDP, FDP, S-NET

1. SDP is Surveillance Data Processor. Collect information from radar sites and monitoring sensors to the flight information processing system and display current location and related information (altitude, velocity, flight number , etc.) of the aircraft .

2. FDP is Flight Data Processor. it provide real time flight information air traffic controllers and enable automated co-ordination between adjacent air traffic control center.

3. S-NET is safety net; it's a part of hardware. Safety nets are design to decrease fall distance, to absorb the energy of fall, and to reduce the seriousness of an injury.

4. RDCU- Radar Data Compressor Unit which receive data from different RADAR.

### 4. VCS System:

VCS is Voice Communication Switch is the heart of any ground to air communication system. It connect operators or controllers to the air craft.



### Industrial Visit : “Regional Remote Sensing Center(RRSC-ISRO), Nagpur”

Regional Remote Sensing Centre is located at Nagpur, the second capital of Maharashtra. It caters to Central India covering States of Maharashtra, Madhya Pradesh and Chhattisgarh. Which constitute around 23 % of the country geographical area. A visit to the space museum will take more than an hour. In visit we saw and get lots of information about mini Satellite models, Chndrayan-2 space craft, mars Orbiter mission and different launching vehicles models like PSLV-C35,GSLV MK-3, space sute benefits of remote sensing, development of techniques for remote sensing applications including disaster management support.



### Industrial Visit : “Regional Remote Sensing Center(RRSC-ISRO), Nagpur”



### Industrial Visit : “Br. Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd.”

Br. Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd. Was registered in 1989 under the Maharashtra Co-operative Act 1960. Soot Girni is situated at owned land of 20 hectors (50 Acres) At present the Soot Girni installed capacity of 58464 spindles and the yarn production is in progress. Apart from yarn manufacturing they have comber facility of M T per day Company used 'A' grade raw –Material(Fibers) for producing yarn. Students visited Plant A having machines like Carding, Breaker, Comber, Lap Former, Finisher Speed Frame, Ring Frame. Plant A & Plant B having total production capacity per day is 13500Kgs.



### Industrial Visit : “Br. Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd.”



## Industrial Visit at SONALI TRANSFORMER, MIDC Hingna Nagpur

The visit started at 10:30 AM from TGPCET main gate on 25.02.2023 and reached SONAL TRANSFORMERS at 11:30 PM. The visit was guided and accompanied by Prof. Sonal C. Meshram and Mr. Pranjal Tale with total 32 no. of 3rd sem students onboard of Electrical Engineering department. The industry manufactures different parts of 3-phasedistribution transformers of voltage rating 11KV/433V. The students get to know there the transformer rating plate, Hv and Lv windings connection, vector group of transformer, type of core used in, type of oil in conservator tank, bushing, lightning arrester mounted on body, laminated core, grounding, inside view of primary and secondary winding connections and all its manufacturing process. The training supervisor from SONALI TRANSFORMERS accompanied students group and showed them the entire industry and informed and explained every equipment's present there. With this we ended up the visit very finely and cultivating students of 3rd sem electrical engineering department with their enthusiastic participation.



## Industrial Visit at ADANI POWER PLANT, Tirora MIDC

The visit was coordinated by Mr. Rahul Shejao, coordinator, Udaan Project. On the topic “Thermal Power Plant”, the key points told by the expert “Mr. Ravindra Patidar”, Sr. Engineer to the student during the visit as follows. He starts with the basic concepts by giving Presentation on Thermal Power Plant. He briefed students about Industry and Industry revolution with Government of India driving focus on domestic manufacturing through its 'Make in India' initiative. The demand for power will be led by industrial consumers and this will set the tone for growth opportunities in the power sector. Further, he gave the guidance that Government has continuously emphasised ensuring electricity availability for all. Mainly the Adani Power Plant is situated at three place- Mundra, Kawai and Tirora.

The overall plant having largest capacity of 10,000 MW and the visited plant having capacity of 3300 MW. The main goal of this technical visit is typically to convey a specific topic that is either technical in nature or has a technical component to it that needs to be addressed or understood. With this we ended up the visit very finely and cultivating students of electrical engineering department with their enthusiastic participation.



## GUEST LECTURES IN SESSION 2022-23



Mr. Anil Tatode , Training Officer RTMNU Robotics & Cloud Technology Department Nagpur Delivering Guest Lecture on “Cloud Technology & Information Technology and its Future”.



A Guest lecture on topic “Cyber Security” by Mr. Adarsha Kant Sinha ,Founder Cyber3ra and Cyber Security Analyst at Crypto Forensics Technology, Nagpur



Mr. Nimit Malhotra , an custodian of bridging the gap in campus to corporate journey , NIIT Digital .Delivering lecture on Demystifying Exponential Technologies



Director Dr. Shrinivas Raosir & Scientist Dr. Prakasrao sir of Regional Remote Sensing Center (RRSC-ISRO), Nagpur



Guest lecture on topic “Brain Signal Processing” by Dr. Ram Bilas Pachori ,Professor IIT Indore. Senior member of IEEE & fellow of ISTE, IEI & IET.



"Guest Lecture on Overview of Thermal Power Plant" on 19th September 2022.

The Guest speaker for the session was Prof. Prashant Mawle Dy. Director NPTI (WR) Nagpur

## “Guest lecture on Carrier in Salesforce”

Mr. Suraj Ghodmare, the guest speaker, elucidated about the basic concept of Cloud Computing and Cloud CRM. The tool which is commonly used now days is “Carrier in SALESFORCE”. Sir told that Salesforce typically works for metadata. Sir provided a complete demonstration of how to create an account on Salesforce and how to use its various features. Effective utilization of this technology helps a business grow into a more streamlined, effective and efficient organization across sales, service, marketing and more.



IT DEPT “Guest lecture on Carrier in Salesforce”





“Guest Lecture on Python Language”



“Current Trends in Salesforce Technology”



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-  **+91 99229 66176 / 97637 11372**
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-  **www.tgpct.com**

-  **City Office: Ojaswini Complex, 17 Gayatri Nagar , IT Park Road, Nagpur-440 022**
-  **Campus: NH-44, Mohgaon, Wardha Road, Nagpur-441 108 (Maharashtra)**

