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TULSIRAMJI GAIKWAD-PATIL

College of Engineering & Technology



—AN AUTONOMOUS INSTITUTE—



ISTE TECHVISION

2023-24



**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).



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.

"The industry is currently facing an acute shortage of quality engineers. The Gaikwad-Patil Group has taken a positive step to fulfil this critical requirement of the industry".

FROM MANAGEMENT DESK



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

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

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 industryrelevant education to the students by teaching courses like B.Tech, M.Tech, Architecture, Polytechnic, MBA, MCA, Pharmacy, BAMS, Physiotherapy and Nursing. Hardly in his early forties, Dr. Mohan Gaikwad-Patil is the young and dynamic face of the group. His contagious enthusiasm and unflagging drive are truly inspiring.



Mr. Akash Gaikwad-Patil
Vice Chairman, GPG

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

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



Dr. Anjali Patil-Gaikwad
President, GPGI

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



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.



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, "**Dreams are not those which we see while sleeping, but dreams are those which do not let us sleep,**" TGPCET strives for ambitious goals through knowledge acquisition, hard work, and perseverance. Our institution has quickly emerged as one of Maharashtra's premier technical education institutions. We emphasize academic excellence and technical skill development to meet industry demands while instilling values of integrity, morality, and sustainability.

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



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 technologica 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' technica prowess, and bolster them to put their learning into practice. Every event organized brings opportunities for stu

ISTE STUDENT CHAPTER SESSION 2023-24

INDEX

Sr. No.	Title	Beneficiary
Centralize Event		
1	International Conference “IC-IKSAT -24”	Students & Faculty
2	National Event “ Tech Rise”	Students
3	Inter Departmental Best from Waste Turning Trash into Treasure Competition	Students
4	Expert Lecture on “Research Paper Writing”	Students
5	One Week Workshop on “Research Methodology	Faculty
Guest / Expert Lecture		
6	World Space Week2k23 celebration under the theme “Space Enterpreurship”.	Students
7	Expert Lecture on "Navigating the World of BIM (Building Information Modeling)".	Students
8	Expert Lecture on “Building Information Modeling (BIM)”.	Students
9	Expert Lecture on " Artificial Intelligence & It’s Applications".	Students
10	Expert Lecture on " Web Technologies" .	Students
11	Expert Lecture on " Cyber Security Sensitization".	Students
12	Expert Lecture on " Selenium and Rust Technologies".	Students
13	Expert Lecture on " Computer Networkand NS2 Software’s".	Students
14	Expert Lecture on " Generative AI ".	Students
15	Expert Lecture on “Python and Security”.	Students
16	Expert Lecture on “MERN Stack development”.	Students
17	Expert Lecture on “Data Analysis and Power BI.”	Students
18	Expert Lecture on “Cloud Computing Essentials”.	Students
19	Expert Lecture on “Web Development Tools And Agile Technology”.	Students
20	Expert Lecture on “Future Prospective of Engineering”.	Students
21	Expert Lecture on “Future Prospective of Engineering”.	Students

22	Expert Lecture on “Role of Electronics & Communication Engineers in Media Communication & Printing Technology.”	Students
23	Expert Lecture on “Career Opportunities’ in Defense Services for Engg. Students”.	Students
24	Expert Lecture on “Industrial Automation”.	Students
25	Expert Lecture on “Experimental Learning Through Case Study”.	Students
26	Expert Lecture on “Advance testing tools & its usage”.	Students
Industrial Visit / Site Visit/Tour		
27	Industrial Visit at “AAR- INDAMER Mihan Nagpur”.	Students
28	Site Visit at “CSIR-NEERI campus, Nagpur”.	Students
29	Site Visit At “Commercial Building Construction Site Visit”	Students
30	Site Visit “At Commercial Bhandewadi Sewage Treatment Plant”	Students
31	Site Visit “At Vidharbh RMC plant, Butibori Organized”	Students
32	Site Visit “At Ambhora Bridge, Kuhu Bhandara”.	Students
33	Industrial Visit at “RCOEM - Tata Technologies Ltd. CIIT Nagpur”.	Students
34	Industrial Visit at “Regional Remote Sensing Center-Central,Nagpur”.	Students
35	Industrial Visit at “MSIT Services-CMS in Nagpur”.	Students
36	Industrial Visit at “Regional V. R. Jamdar Siemens Center of Excellence,Nagpur”.	Students
37	Industrial Visit at “Voyage Robotics Pvt. Limited, Nagpur”	Students
38	Industrial Visit at “Metro Bhavan, Nagpur”	Students
39	Industrial Visit at “HORIBA India Pvt. Ltd,Nagpur”	Students
40	Industrial Visit at “Air Traffic Control (ATC) Airport Authority of India,Nagpur “.	Students
41	Industrial Visit at “Hi Tech Resistor,Nagpur” .	Students
42	Industrial Visit at “KEC International Limited, Butibori, Nagpur.”	Students
43	Industrial Visit at “Maharashtra State Electricity Distribution Company Limited (MSEDCL) 33kV/11kV Substation ,Khapari Nagpur.”	Students
44	Industrial Visit at “Royal Webtech Pvt Ltd Nagpur.”	Students
45	Industrial Visit at “Xceller IT Services, IT Park, Nagpur.”	Students

46	Industrial Visit at “Click2Cloud Mihan, Nagpur.”	Students
47	Six Day Industrial Tour at “Kullu Manali.”	Students
Workshops / Hands on training		
48	Two Days Workshop on “Aero modelling and Basics of Drone Piloting.”	Students
49	Three Days Workshop on “Total station”	Students
50	Two Days Workshop on “Python for AI”.	Students
51	Two Days Workshop on “Data Analytics using Python tools”	Students
52	Two Days Workshop on “Real Time Industrial Oracle Database Administration”	Students
53	Three Days Workshop on “Mobile Robotics”	Students
54	Two Days Workshop on “Arduino Programming”.	Students
55	Two Days Workshop on Hands on “Training on Electric Vehicle”.	Students
Faculty Development Programme(FDP)		
56	One Week ISTE (Self Sponsored) Faculty Development Program on “Multifaceted Nature of Artificial Intelligence”.	Faculty
57	One Week ISTE (Self Sponsored) Faculty Development Program on “IoT-Driven Renewable Energy: Powering Sustainable Futures”.	Faculty
58	One Week ISTE (Self Sponsored) Faculty Development Program on “Intelligent Automation through Artificial Intelligence, Machine Learning & Deep Learning”.	Faculty
59	One Week ISTE (Self Sponsored) Faculty Development Program on “Recent Advancement in 3D Printing Applications”.	Faculty



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 HIGHLIGHTS



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



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



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



Institute signing MoU with EduSkill



Education Leadership Award Presented by Dewang Mehta



Prof. Sandeep Gaikwad elected as SENATE Member RTMNU, Nagpur



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



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



Mechanical & Electrical Engineering Receives NBA Accreditation





**Receiving India's best
Engineering Institutes
2023 by
CAREERS 360**



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



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



**Receiving Maximum number
of Domain Scholars**



**Receiving adjudged as the
Naturing Campus in Nagpur
in Patent & Idea Fest 2023
by the hands of**

**Shri. Devendra Fadanavis,
Deputy Chief Minister,
Maharashtra**



**Best ISTE Student Chapter
Award 2021**



**Best ISTE Faculty
Chapter Award 2019**



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



**Winners of
OUTSTANDING ENGINEERING
INSTITUTE
Presented by ABP NEWS**



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. Chetan Jambhulkar
Electrical Engineering



Member

Ms. Prajakta Arjapure
Biotechnology Engineering

ISTE STUDENTS CHAPTER COODINATOR



Aishwarya Dohare
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



STUDENTS ACHIEVEMENTS / AWARDS



Felicitation of Winner of "Best from Waste Competition" by Chief Guest Mr. Rahul V. Vyawahare and Dr.P L Nagtode Principal with Trophy and Certificate



Best Paper Award Felicitation of Conference IC-IKSAT-24



Felicitation of Winner of "TECHRISE" with Trophy and Certificate

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 Bhoir	Electronics and Communication	LM53204
23	Mr.Ritesh Banpurkar	Mechanical Engineering	LM116295
25	Ms.Dipali Bhoir	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

International Conference on “Indian Knowledge System, Science & Spirituality for Advancing Technology”

Objective:

To foster dialogue and intellectual exchange on Indian knowledge practices, spirituality, science, and technology, providing a platform for young researchers, students, and professionals to share and enhance their research.

About the Program:

On March 15-16, 2024, Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur (TGPCET), in collaboration with Brahma kumaris, SEGi University, Malaysia, Prince of Songkla University, Thailand, and ISTE, New Delhi, successfully organized the 10th International Conference on “Indian Knowledge System, Science & Spirituality for Advancing Technology” (IC IKSAT-2K24). The conference featured over 300 scientific paper presentations and keynote speeches from global experts. The event aimed to foster dialogue and intellectual exchange on the integration of Indian knowledge practices, spirituality, science, and technology.

Outcomes:

1. Intellectual Exchange: The conference provided a platform for dialogue among global experts, fostering the exchange of ideas and knowledge.
2. Research Presentation: With over 300 scientific paper presentations, the event allowed researchers to share their work and receive valuable feedback.
3. Global Expertise: Keynote speeches from international experts enriched participants' understanding of the integration of science and spirituality.
4. Young Researchers' Platform: The event offered young researchers, students, and professionals an opportunity to present and enhance their research.
5. Event Success: The conference was highly appreciated, marking a successful collaboration and intellectual engagement among participants from various institutions and countries.



Inaugural Ceremony IC-IKSAT-24



Felicitation of Guest



Felicitation of Guest



Publication of souvenir of IC-IKSAT-24



Dignitaries at Valedictory Function of IC-IKSAT-24



Winners of IC-IKSAT-24

NATIONAL LEVEL EVENT “TECH RISE ”

Objective:

To provide a platform for engineering students to showcase their projects, enhance their presentation skills, and participate in esports, fostering innovation and competitive spirit.

About the Program:

On April 23, 2024, Tulsiramji Gaikwad-Patil College of Engineering, under the auspices of ISTE, is set to organize Tech Rise, a prestigious national-level event. The event will feature a Project Competition with tracks in various engineering disciplines, a PowerPoint Presentation Competition, and a thrilling BGMI Esports Battle Showdown. Esteemed guests for the event include Dr. Rajendra Pillewar, Dr. O. N. Mukherjee, Mr. Yogesh Chaumal, Mr. Swapnil Muley, and Mr. Pawan Kumar. The event will witness the participation of 280 students from across the country.

Outcomes:

The Project Competition will provide students an opportunity to showcase innovative projects across various engineering disciplines. The PowerPoint Presentation Competition will help students improve their communication and presentation abilities. The BGMI Esports Battle Showdown will add a thrilling dimension to the event, engaging participants in competitive gaming.



“Inauguration of National Level Event TECH RISE”



“Welcome of the Chief Guest & Guest of Honors by students”



“Photo With Winners of the Event”



Demonstrations of Projects for Judging



“National Level Event: Gaming Competition”



“National Level Event: PPT Presentation”

MODEL MAKING COMPETITION: “BEST FROM WASTE”

Objective:

To promote creativity, innovation, and sustainability among students through artistic recycling by turning waste into valuable items.

About the Program:

On February 24, 2024, the Indian Society of Technical Education (ISTE), TGPCET Student Chapter, organized the "Inter Departmental Best from Waste: Turning Trash into Treasure Competition" at Vishveshwarya Hall, TGPCET. The event aimed to encourage students to creatively recycle waste materials into valuable items, fostering a spirit of innovation and sustainability. The competition saw the participation of 300 students from various departments. The distinguished guest, Hon'ble Er. Rahul Vyawahare, Scientist at NEERI, Nagpur, shared insights on technical trends and environmental initiatives. The event was also supported by the presence of Hon'ble Principal Dr. P.L. Naktode, Hon'ble Vice Principal Prof. Pragati Patil, deans, heads of departments, faculties, and students.

Outcomes:

Students demonstrated their creative abilities by transforming waste materials into valuable items. The competition emphasized the importance of recycling and sustainability in everyday life.



Chief Guest on Dice Mr. Rahul V. Vyawahare ,
Principal Dr. P L Nagtode ,ISTE Secretary &
Head of Department Civil & ECE



Warm Welcome of Chief Guest Mr. Rahul V. Vyawahare
by Dr.P L Nagtode Principal with Memento and Sampling



Chief Guest Mr. Rahul V. Vyawahare
Judging Projects in Best from Waste Competition



Felicitation of Winner of “Best from Waste Competition”
by Chief Guest Mr. Rahul V. Vyawahare and
Dr.P L Nagtode Principal with Trophy and Certificate

EXPERT LECTURE ON “RESEARCH PAPER WRITING”

Objective:

To foster academic excellence and research acumen among faculty and students by enhancing their skills in crafting high-quality research papers and promoting a research-oriented mindset.

About the Program:

On November 18, 2023, the ISTE Faculty and Student Chapter at TGPCET Nagpur organized an expert lecture on "Research Paper Writing." Dr. Sheetal Dewangan, a distinguished Post-Doctoral Researcher at AJOU, South Korea, led the session. The lecture, attended by 55 participants, aimed to improve the research paper writing skills of faculty and students, providing them with valuable insights and techniques for crafting impactful research papers and encouraging a research-oriented approach.

Outcomes:

Participants gained practical knowledge and skills for writing high-quality research papers. The session provided insights into effective research methodologies and academic writing practices.



“Inauguration & Lighting of Ceremonial Lamp”



“Expert addressing to the participants”



“Expert addressing to the participants”



“Expert addressing to the participants”

ONE WEEK WORKSHOP ON “RESEARCH METHODOLOGY”

Objective:

To equip participants with essential research skills, including literature review, hypothesis development, research design, sampling techniques, and data collection and analysis tools, culminating in the selection of research topics and writing of research papers.

About the Program:

From April 23 to April 27, 2024, the Department of Electronics and Communication Engineering at TGPCET organized a one-week ISTE self-sponsored workshop on "Research Methodology" in hybrid mode at JRD TATA Hall. The workshop featured esteemed speakers, including Dr. Kailas Wasewar and other notable experts. With 227 registered participants, the workshop aimed to provide comprehensive training in research methodology, covering key aspects such as literature review, hypothesis development, research design, sampling techniques, and data collection and analysis tools.

Outcomes:

Participants acquired essential skills for conducting research, including effective literature review and hypothesis development. Participants learned advanced tools and techniques for data collection and analysis.



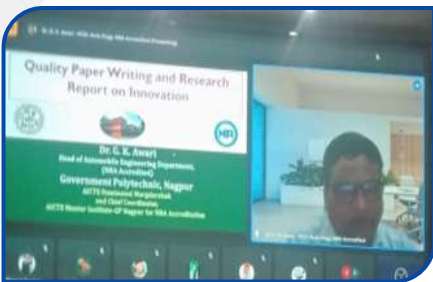
Inauguration of program by the hands of Chief Guest Dr. Kailas Wasewar



“Inauguration & Lighting of Ceremonial Lamp”



Felicitation of Guest Dr. Amey Khedikar



Online Session of Expert Dr. G. K. Awari



Online Session of Expert Dr. Bharat Bhanvase

WORLD SPACE WEEK2K23 CELEBRATION UNDER THE THEME “SPACE AND SUSTAINABILITY”

Objective

To foster collaboration, innovation, and STEM education while highlighting the growing significance of space entrepreneurship under the theme “Space and Sustainability.”

About the Program

From October 4 to 10, 2023, Tulsiramji Gaikwad Patil College of Engineering and Technology, Nagpur, celebrated World Space Week 2k23. Organized by the Aerocious student forum of the Aeronautical Department, the event featured a range of activities including regional competitions such as Water Rocket, Paper Plane, Space Quiz, and Painting. Additionally, the week included Aero modeling workshops, air shows, RC Drone challenges, and industrial visits. The celebration aimed to engage students in creative and technical activities while promoting the importance of sustainability in space exploration. The event saw participation from 300 students.

Outcomes

The event encouraged teamwork and collaboration among students through various competitions and workshops. Activities such as Aero modeling workshops and RC Drone challenges significantly boosted student interest in STEM fields. The competitions and events fostered creativity and innovation among participants.

DAY 1: OPENING CEREMONY



PAPER PLANE COMPETITION:



DAY 2:

WATER ROCKET COMPETITION:



POSTER MAKING COMPETITION:



AIRCRAFT/ROCKET MODEL MAKING COMPETITION:



Day-3: Expert Lecture on “Space Enterpreureship”



DAY 4:

INDUSTRIAL VISIT TO NAGPUR FLYING CLUB.



DAY 5:

SPACE QUIZ COMPETITION:



DAY 6:

AIR SHOW:



EXPERT LECTURE ON “ BUILDING INFORMATION MODELING (BIM)” ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING

Objective

To detail the concepts, industry demand, and job opportunities in Building Information Modeling (BIM), emphasizing its use in creating digital twins of real estate projects for effective stakeholder collaboration.

About the Program

On October 31, 2023, the Department of Civil Engineering at Tulsiramji Gaikwad-Patil College of Engineering and Technology, in association with the ISTE and ICI, organized an expert lecture on "Building Information Modeling (BIM)." Ms. Anjali Khote, a Software Trainer and Design Engineer at Astral Informatics Pvt Ltd, Nagpur, led the session. Attended by 73 students, the lecture focused on the concepts of BIM, the demand for it in the industry, and the job opportunities available. The session also highlighted the use of BIM in creating digital twins of real estate projects to facilitate effective collaboration among stakeholders.

Outcomes

Students gained a comprehensive understanding of BIM concepts. The lecture provided insights into the current industry demand for BIM professionals.



“Expert delivering Lecture to the Students”



“ Felicitation of Expert by Students”

EXPERT LECTURE ON "NAVIGATING THE WORLD OF BIM (BUILDING INFORMATION MODELLING)"

Objective

To detail the concepts, industry demand, and job opportunities in Building Information Modeling (BIM), emphasizing its use in creating digital twins of real estate projects for effective stakeholder collaboration.

About the Program

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Outcomes

Students gained a comprehensive understanding of BIM concepts. The lecture provided insights into the current industry demand for BIM professionals.



“Expert Welcome by HOD Dr. Snehal Abhyankar”



“Expert Delivering the Lecture”

EXPERT LECTURE ON "ARTIFICIAL INTELLIGENCE & ITS APPLICATIONS "

Objective

To provide students with insights into AI principles, applications across industries, ethical considerations, and career paths, fostering a deeper understanding and motivation in the field of AI.

About the Program

On September 23, 2023, the Department of Computer Science and Engineering at Tulsiramji Gaikwad-Patil College of Engineering organized an expert lecture on "Artificial Intelligence & Its Applications." Prof. Neema Ukani, Director of NU Intelligence Nagpur, led the session. The lecture, attended by 82 students, focused on the principles of artificial intelligence, its applications in various industries, ethical considerations, and potential career paths in AI, aiming to enhance students' understanding and interest in this transformative field.

Outcomes

Students gained insights into the fundamental principles of artificial intelligence. The session highlighted various AI applications across different industries.



"Welcome of Expert"



"Expert Delivering Lecture"

EXPERT LECTURE ON "WEB TECHNOLOGIES"

Objective

To provide participants with a comprehensive understanding and practical application of contemporary web technologies to facilitate personal and professional growth.

About the Program

On October 17, 2023, the Department of Computer Science and Engineering at Tulsiramji Gaikwad-Patil College of Engineering organized an expert lecture on "Web Technologies." Mrs. Pooja Arora, a developer at Revat Network, Nagpur, led the session. The lecture, attended by 75 students, focused on the latest web technologies and their practical applications, aiming to enhance students' knowledge and skills in this rapidly evolving field.

Outcomes

Students gained a deeper understanding of contemporary web technologies. Inspired students to further explore and stay updated with advancements in web technologies.



"Welcome of Expert"



"Expert Delivering the Lecture"

EXPERT LECTURE ON "CYBER SECURITY SENSITIZATION"

Objective

To enhance awareness and understanding of cyber security among students through an expert lecture.

About the Program

On December 23, 2023, the Department of Computer Science and Engineering at Tulsiramji Gaikwad-Patil College of Engineering organized an expert lecture on "Cyber Security Sensitization." Dr. Suresh Shan, President of the CSI Student Chapter Mumbai, delivered the session in collaboration with ISTE. The event, attended by 180 students, focused on the critical relevance of cyber security using real-world examples and case studies.

Outcomes

Students became more aware of cyber security threats and preventive measures. Encouraged students to think critically about digital security challenges.



“Welcome of Guest by Chairman Dr. Mohan Gaikwad-Patil “



“ Expert Dr. Suresh Shan, Delivering the expert talk”

EXPERT LECTURE ON " SELENIUM AND RUST TECHNOLOGIES "

Objective

To provide participants with insights into the integration and applications of Selenium and Rust technologies in the IT industry for software testing and development purposes.

About the Program

On February 17, 2024, the Department of Computer Science and Engineering at Tulsiramji Gaikwad-Patil College of Engineering organized an expert lecture on "Selenium and Rust Technologies." Mr. Mayur Kirtane, Solution Architect at HCL Nagpur, delivered the session, sharing his extensive expertise and experience. Attended by 115 participants, the lecture focused on the practical applications and integration of Selenium and Rust, key tools in software testing and development.

Outcomes

Participants gained valuable insights into Selenium and Rust, including their applications in software testing and development. The lecture highlighted the relevance of these technologies in current industry practices, preparing participants for real-world applications.



“Welcome of Expert Mr. Mayur Kirtane”



“Expert Delivering expert talk to students”

EXPERT LECTURE ON " COMPUTER NETWORKAND NS2 SOFTWARE'S "

Objective

To provide students with comprehensive insights into networking principles and NS2 simulation software, bridging the gap between theory and practical application.

About the Program

On April 16, 2024, the Department of Computer Science and Engineering at Tulsiramji Gaikwad-Patil College of Engineering organized an expert lecture on "Computer Networks and NS2 Software." Mr. Raj Arora, Senior Network Engineer at Revat Network Nagpur, delivered the session in collaboration with the ISTE and CSI Students Chapter. The lecture, attended by 75 enthusiastic participants, aimed to offer a detailed understanding of networking concepts and the use of NS2 simulation software, enhancing students' practical knowledge and skills.

Outcomes

Students gained a thorough understanding of computer networking principles and their real-world applications. The session provided practical insights into using NS2 simulation software and simulation.



EXPERT LECTURE ON " GENERATIVE AI "

Objective

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

About the Program

On April 30, 2024, the Department of Computer Science and Engineering at Tulsiramji Gaikwad-Patil College of Engineering organized an expert lecture on "Generative AI." Mr. Aniruddha Kalbande, Founder of FireBlazer Pvt. Ltd., Nagpur, delivered the session. Attended by 75 students, the lecture aimed to offer a deep dive into Generative AI techniques, highlighting their applications and potential in the field of data science. The session was designed to bridge theoretical knowledge with practical application, preparing students for future careers in artificial intelligence.

Outcomes

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



"Welcome of Guest"



"Glimpses of Expert Delivering Lecture"

EXPERT LECTURE ON “PYTHON AND SECURITY”

Objective

To educate students on the critical intersection of Python programming and security considerations, focusing on integrating best security practices into Python programming and application development.

About the Program

On October 11, 2023, the Department of Information Technology at Tulsiramji Gaikwad-Patil College of Engineering organized an expert lecture on "Python and Security" under the auspices of ISTE. Mr. Santosh Selokar, Director of Anishree Technology, LLP, Nagpur, delivered the session. With 65 students in attendance, the lecture provided valuable insights into the integration of security practices within Python programming, emphasizing the importance of securing applications and data in the development process.

Outcomes

Students gained an understanding of critical security considerations when programming in Python. The session highlighted best security practices and how to incorporate them into Python application development.



EXPERT LECTURE ON “MERN STACK DEVELOPMENT”

Objective

To provide insights into industry working culture, recent trends, and technical skills required for building web applications using MERN Stack technologies, while highlighting career opportunities and essential skills needed for success in IT roles.

About the Program

On April 16, 2024, the Department of Information Technology at Tulsiramji Gaikwad-Patil College of Engineering organized an expert lecture on "MERN Stack Development" under the auspices of ISTE. Mr. Manish Sinha, Co-founder and CTO of The Space Element Pvt Ltd, Nagpur, led the session. Engaging with 72 students, Mr. Sinha offered valuable insights into the MERN Stack technologies (MongoDB, Express.js, React.js, and Node.js) and their application in web development. The lecture also covered industry trends, career opportunities, and essential skills such as communication, updated technical knowledge, programming proficiency, and leadership abilities necessary for thriving in IT roles.

Outcomes

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



“Felicitation of Expert”



“Glimpses of Delivering Expert Talk”

EXPERT LECTURE ON “DATA ANALYSIS AND POWER BI”

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

On April 22, 2024, the Department of Information Technology at Tulsiramji Gaikwad-Patil College of Engineering organized an expert lecture on "Data Analysis and Power BI." Ms. Pratiksha Meshram, Senior Data Analyst at The SS Infotech Pvt Ltd, Nagpur, led the session. With 56 students in attendance, Ms. Meshram provided insights into industry practices, technical skills required for effective data analysis, and the use of Power BI for data visualization and reporting. The lecture also highlighted career opportunities in the IT field, focusing on data analysis roles.

Outcome

Students learned about current industry practices in data analysis and the application of Power BI. The session covered essential technical skills needed for data analysis, including proficiency in Power BI.



Glimpses Welcome of Guest

EXPERT LECTURE ON “CLOUD COMPUTING ESSENTIALS”

Objective

To educate students on industry practices, technical skills, and career opportunities in Cloud Engineering enhancing their understanding and preparation for careers in IT.

About the Program

On April 22, 2024, the Department of Data Science Engineering at Tulsiramji Gaikwad-Patil College of Engineering organized an expert lecture on "Cloud Computing Essentials". Mr. Sumit Yadav, Solution Architect, Tech Mahindra, Nagpur, led the session. With 55 students in attendance, Ms. Meshram provided insights into industry practices, technical skills required for effective cloud techniques..

Outcomes

Students gained a deeper understanding of cloud computing techniques and tools relevant to industry standards. The lecture emphasized practical applications of cloud in data visualization and reporting.



“Glimpses of Delivering Lecture”

EXPERT LECTURE ON "WEB DEVELOPMENT TOOLS AND AGILE TECHNOLOGY"

Objective

To provide participants with insights into contemporary web development tools and Agile methodologies essential for modern software development practices.

About the Program

On August 23, 2024, the Department of Data Science Engineering, in collaboration with ISTE, hosted an insightful guest lecture on "Web Development Tools and Agile Technology." Mr. Ankit Kshirsagar, Advisory Software Developer at Ankhub Tech Service, Nagpur, led the session. With 56 participants in attendance, Mr. Kshirsagar focused on the latest web development tools and Agile methodologies, emphasizing their importance in modern software development practices and how they contribute to efficient and effective project management.

Outcomes

Participants gained knowledge about contemporary web development tools and their applications in software projects. The session provided insights into Agile methodologies, highlighting their role in improving project management and development processes.



"Glimpses of Delivering Lecture"

EXPERT LECTURE ON “FUTURE PROSPECTIVE OF ENGINEERING”

Objective

To provide insights into niche skills in automotive design, CAD, CAE, and recruitment practices, emphasizing the importance of crafting effective CVs and understanding key industry trends.

About the Program

On March 20, 2024, the Department of Mechanical Engineering, in collaboration with ISTE, hosted a guest lecture on "Future Prospective of Engineering." Anil Ramakant Jain, Development Manager at Virtual Simutech Pvt. Ltd., Pune, led the session. With over 22 years of experience in both teaching and industry, Mr. Jain shared his expertise on automotive design, CAD, CAE, and recruitment practices. The session, attended by 50 students and faculty members, highlighted the significance of developing niche skills and crafting effective CVs for career advancement.

Outcomes

Participants gained insights into specialized skills in automotive design, CAD, and CAE relevant to the future of engineering. The lecture covered important recruitment practices and industry expectations, aiding in career preparation.



“Glimpses of Delivering Lecture”

EXPERT LECTURE ON “ROLE OF ELECTRONICS & COMMUNICATION ENGINEERS IN MEDIA COMMUNICATION & PRINTING TECHNOLOGY”

Objective

To educate students about the role of Electronics & Communication Engineers in media communication and printing technology, covering concepts in media communication, printing technologies, and entrepreneurship development.

About the Program

On March 20, 2024, the Department of Electronics & Communication Engineering, in collaboration with ISTE, organized an expert lecture on "Role of Electronics & Communication Engineers in Media Communication & Printing Technology." Dr. Rajendrakumar Pillewar, Assistant Vice President at Lokmat Media Group, Nagpur, delivered the session. Attended by 68 students, the lecture provided a comprehensive overview of various media communication forms—including print, electronic, and digital media—and detailed printing technologies such as offset, flexography, gravure, and digital printing. The session also emphasized the importance of entrepreneurship development within these fields.

Outcomes

Students gained insights into different forms of media communication and the role of electronics and communication engineers in these areas..



“Delivering Lecture”



“Glimpses of Program Felicitation of Expert Dr. Rajendra Kumar Pillewar”

EXPERT LECTURE ON "CAREER OPPORTUNITIES' IN DEFENSE SERVICES FOR ENGG. STUDENTS"

Objective

To enlighten students about various career pathways to join the Indian Armed Forces, including eligibility criteria for the Indian Army Technical Graduate Course (TGC), and to inspire them to consider a career in defense services.

About the Program

On March 22, 2024, the Department of Electronics & Communication Engineering, in collaboration with ISTE, organized an expert lecture on "Career Opportunities in Defense Services for Engineering Students." Brig. Sunil Gaopande and Dr. Rajeshwari Wankhede, President of Life Skills Foundation, Nagpur, were the speakers. The session, attended by 76 students, covered various pathways to join the Indian Armed Forces, including detailed discussions on the eligibility criteria for the Indian Army Technical Graduate Course (TGC). The lecture emphasized age limits, educational qualifications, nationality requirements, and opportunities for multiple attempts, while highlighting the esteemed career prospects in defense services.

Outcomes

Inspired students to consider a career in defense services by highlighting the esteemed and prestigious nature of the profession. Enriched students' understanding of career options within the defense sector and the benefits of pursuing a career in this field.



"Felicitation of Guest"



"Delivering Expert Talk"

EXPERT LECTURE ON “INDUSTRIAL AUTOMATION”

Objective

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

About the Program

On March 22, 2024, the Department of Electronics & Communication Engineering, in collaboration with ISTE, organized an expert lecture on "Industrial Automation." Mr. Pranav Mehar, Training Manager at Prolific Systems & Technologies Pvt. Ltd. (Central India Region, Nagpur), delivered the session. Attended by 92 students, the lecture aimed to introduce fundamental concepts of industrial automation and its importance in modern industry. The session covered how industrial automation integrates science, engineering, and technology to create automated systems like robots, and how these systems are crucial for improving operational efficiency, productivity, and quality in various sectors.

Outcomes

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



“Felicitation of Expert Mr. Pranay Mehar”



“Delivering Guest Lecture”

EXPERT LECTURE ON “EXPERIMENTAL LEARNING THROUGH CASE STUDY”

Objective

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

About the Program

On March 4, 2024, the Department of Electrical Engineering, in collaboration with ISTE, organized an expert lecture on "Experimental Learning Through Case Study." Ms. Rijyuta Kaabaadee, Project Research Assistant at IIT Bombay, conducted the session. Attended by 84 students, the lecture aimed to improve participants' grasp of case study methodologies. The event featured traditional lamp lighting, opening remarks by the coordinator, and interactive sessions led by Ms. Kaabaadee. The session covered key aspects such as selecting appropriate case studies, defining effective survey forms, and preparing comprehensive reports, emphasizing structured approaches to enhance learning experiences.

Outcomes

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



Glimpses of Delivering talk



Felicitation of Expert

INDUSTRIAL VISIT AT AAR- INDAMER MIHAN NAGPUR

Objective

To develop industry-centric technical skills in aircraft maintenance and overhaul, enhancing students' understanding of aircraft components and their significance in the aerospace industry.

About the Program

On March 5, 2024, the Department of Aeronautical Engineering organized an industrial visit to AAR-INDAMER Aircraft Maintenance Expert, Nagpur. The visit aimed to introduce students to aircraft maintenance and overhaul, covering essential concepts such as aircraft fuselage, wings, engines, and other critical parts. With 50 students participating, the visit included engaging knowledge-based activities and provided insights into the history and importance of the aircraft maintenance facility. The experience was designed to motivate students across various academic years and improve their employability prospects in the aerospace industry.

Outcomes

Industrial visit Provided students with firsthand experience in aircraft maintenance and overhaul, bridging the gap between theoretical knowledge and practical application.



“Glimpses During Visit”



“Students Observing Aero plane”

Objective

To expose students to real-life problem-solving solutions and scientific approaches developed by CSIR-NEERI, enhancing their understanding of practical applications in civil engineering.

About the Program

On October 4, 2023, the Department of Civil Engineering organized an educational site visit to the CSIR-NEERI campus, Nagpur. The visit aimed to provide 57 students with insights into the institute's innovative approaches and solutions for real-life environmental and engineering challenges. Students explored various research projects and scientific methods developed by CSIR-NEERI, gaining a deeper understanding of how these solutions are applied to address critical issues in civil engineering.

Outcomes

Improved students' understanding of how scientific approaches are applied to tackle environmental and engineering challenges. Increased awareness of current industry practices and research developments in civil engineering.



"Photos of During Students During visit"



"Practical Demonstration by Expert"



Practical Demonstration by Expert

AT COMMERCIAL BUILDING CONSTRUCTION SITE VISIT

Objective

To familiarize 3rd and 5th semester students with RCC (Reinforced Cement Concrete) construction techniques and provide practical insights into designing and executing commercial buildings.

About the Program

On December 16, 2023, the Department of Civil Engineering organized a one-day site visit to a commercial building construction site in Nagpur. The visit aimed to expose 65 students to practical aspects of RCC construction and the complexities involved in designing and executing commercial buildings. Students observed various construction practices, materials, and techniques used on-site, gaining firsthand experience and understanding of real-world construction processes.

Outcomes

Enriched students' theoretical knowledge by connecting it with practical applications in a live construction environment.
Increased awareness of industry standards and practices in commercial building construction.

Faculty members, Expert and Students during One Days Site Visit



Glimpses at Site visit

AT VIDHARBH RMC PLANT, BUTIBORI

Objective

To provide practical learning experiences in concrete production techniques and ready-mix concrete applications for 4th, 6th, and 8th semester Civil Engineering students.

About the Program

On February 17, 2024, the Civil Engineering Department of Tulsiramji Gaikwad–Patil College of Engineering and Technology, Nagpur, organized a site visit to the Vidharbh RMC plant in Butibori. The visit aimed to offer 72 students practical insights into concrete production techniques and the applications of ready-mix concrete. Students observed the processes involved in producing ready-mix concrete, including batching, mixing, and quality control, and gained a deeper understanding of its use in construction projects.

Outcomes

Provided students with hands-on experience in concrete production and ready-mix concrete applications and Increased awareness of industry practices and standards related to concrete production and use.



Faculty members, Expert and Students during site visit

AT AMBHORA BRIDGE, KUHI (MH)

Objective

To provide practical learning experiences in Bridge Pillar applications for 4th, 6th, and 8th semester Civil Engineering students.

About the Program

On January 15, 2024, the Civil Engineering Department of Tulsiramji Gaikwad–Patil College of Engineering and Technology, Nagpur, organized a site visit to the Ambhora Bridge, Kuhi (MH). The visit aimed to offer 65 students practical insights into Structure, Bim Size , Distance between two pillars, and gained a deeper understanding of its use in construction projects.

Outcomes

This site visit Provided students with hands-on experience in concrete production and ready-mix concrete applications. Linked theoretical knowledge with real-world practices, enriching students' learning experience.



Faculty members, Expert and Students during site visit

INDUSTRIAL VISIT AT RCOEM - TATA TECHNOLOGIES LTD. CIIT

Objective

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

About the Program

On October 3, 2023, the Department of Computer Science and Engineering organized an industrial visit to RCOEM - Tata Technologies Ltd. CIIT, Nagpur. The visit aimed to offer 47 students practical insights into a range of advanced technologies and systems. Under the guidance of Dr. Y. Somkhaskar, Center Head of CIIT Nagpur, students explored various technologies including Arc Welding Robots, Pick-n-Place Robots, CNC-VMC Machines, Manufacturing Execution Systems, 3D Printing & 3D Scanning, Machine Learning (IoT), MSC Mastram, MSC Patran, and Parabolic technologies.

Outcomes

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



Photos of Faculty and Students During Industrial Visit

INDUSTRIAL VISIT AT REGIONAL REMOTE SENSING CENTER-CENTRAL, NAGPUR

Objective

To provide second-year students with practical exposure to remote sensing technology, bridging the gap between theoretical knowledge and real-world applications.

About the Program

On October 3, 2023, the Department of Computer Science and Engineering organized an industrial visit to the Regional Remote Sensing Center-Central, Nagpur. The visit aimed to offer 114 students hands-on experience with remote sensing technologies and their applications. Special thanks were extended to Dr. Ashish Sharma for his invaluable guidance and coordination in facilitating the visit. The Regional Remote Sensing Center-Central hosted the event, enriching students' learning experience with insights into practical uses of remote sensing in various fields.

Outcomes

Students will be able to know about remote sensing technologies and their applications. Helped bridge the gap between theoretical knowledge and real-world applications in remote sensing.



“Students with faculty during Industrial Visit”



“Practical Demonstration by Expert”

INDUSTRIAL VISIT AT MSIT SERVICES-CMS IN NAGPUR

Objective

To provide students with practical exposure to the latest trends and practices in the IT sector, focusing on IT service management, cloud computing solutions, and software development processes.

About the Program

On March 6, 2024, the Department of Computer Science and Engineering organized an industrial visit to MSIT Services-CMS in Nagpur. The visit aimed to offer 45 students hands-on experience with the latest advancements in IT services. The program focused on IT service management, cloud computing solutions, and software development processes, enhancing students' understanding of real-world applications in the IT industry. The visit served to bridge the gap between theoretical knowledge and practical experience, inspiring students to explore career opportunities in technology.

Outcomes

Visit provided students with firsthand experience of current trends and practices in IT service management and cloud computing. Enhanced students' understanding of software development processes and their real-world applications.



Glimpses of Students with Faculty During Visit

INDUSTRIAL VISIT AT REGIONAL V. R. JAMDAR SIEMENS CENTER OF EXCELLENCE, NAGPUR

Objective

To provide 3rd semester students with practical insights into Industry 4.0 and digitalization, focusing on IoT, cloud computing, and advanced technologies transforming manufacturing and operations.

About the Program

On November 29, 2023, the Department of Computer Science and Engineering - Data Science organized an industrial visit to V.R. Siemens Vishwesarya Nagpur Institute of Technology, Nagpur. The visit, attended by 42 students, was conducted under the supervision of Dr. Bharati Sayankar, Head of Department, and Prof. Apeksha Raut, the coordinator. The event, organized by the ISTE student chapter, featured experts from Siemens with over 15 years of experience in IoT. The session aimed to provide students with a platform to exchange knowledge about new trends in Data Science and understand the impact of Industry 4.0 on modern manufacturing and operations.

Outcomes

Offered students hands-on experience with Industry 4.0 technologies, including IoT, cloud computing, and digitalization. Inspired students to explore career opportunities in fields related to Industry 4.0 and digitalization.



INDUSTRIAL VISIT AT VOYAGE ROBOTICS PVT. LIMITED, NAGPUR

Objective

To provide 4th semester students with practical insights into robotics and artificial intelligence, focusing on advanced technologies and their applications in these fields.

About the Program

On April 25, 2024, the Department of Computer Science and Engineering - Data Science conducted an industrial visit to Voyage Robotics Pvt. Limited, Nagpur. The visit, attended by 40 students, was organized under the ISTE and supervised by Dr. Prashant Thakre, Head of Department, and Assistant Professor Apeksha Raut, the coordinator. The event featured experts from Voyage Robotics Pvt. Ltd., who have over 15 years of experience in robotics. The session aimed to offer students hands-on experience and insights into robotics and artificial intelligence technologies.

Outcomes

Students will be able to enhance knowledge of how robotics and artificial intelligence are applied in various industry settings. Inspired students to explore career opportunities in robotics and artificial intelligence.



Glimpse of Industrial Visit at “Voyage Robotics Pvt. Ltd.”

INDUSTRIAL VISIT AT HORIBA INDIA PVT. LTD, NAGPUR

Objective

To provide Electronics and Communication students with practical insights into manufacturing processes, automation, and biomedical product creation at HORIBA India Pvt. Ltd.

About the Program

On December 1, 2023, students from the Electronics and Communication Department at Tulsiramji Gaikwad Patil College visited HORIBA India Pvt. Ltd., Nagpur. The visit, attended by 57 students, was organized to offer practical insights into the company's operations, manufacturing processes, and automation in production. The students gained valuable knowledge about biomedical product creation and industry practices, enhancing their understanding of real-world applications in technology and manufacturing.

Outcomes

Visit provided students with firsthand experience of manufacturing processes and automation in a leading technology company. Increased awareness of career opportunities and advancements in technology and manufacturing sectors.



Glimpses during Visit of Students

INDUSTRIAL VISIT AT AIR TRAFFIC CONTROL (ATC) AIRPORT AUTHORITY OF INDIA

Objective

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

About the Program

On December 29, 2023, students from the Electronics & Communication Engineering Department at Tulsiramji Gaikwad Patil College visited the Air Traffic Control (ATC) at Airport Authority of India, Nagpur. The visit, attended by 62 students, featured a briefing by Mr. G. H. Khare on ATC operations. The session covered radar systems, communication technologies, flight data display, and safety measures essential for managing and controlling air traffic.

Outcomes

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



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

INDUSTRIAL VISIT AT HI TECH RESISTOR,NAGPUR

Objective

To provide Electronics & Communication Engineering students with practical insights into resistor manufacturing processes and industry standards at Hi Tech Resistors Pvt. Ltd.

About the Program

On March 30, 2024, the Department of Electronics & Communication Engineering organized an industrial visit to Hi Tech Resistors Pvt. Ltd., located at Plot No EL1, Electronic Zone MIDC Hingana Road, Nagpur. The visit, attended by 55 students, aimed to give students practical exposure to the manufacturing processes of resistors, with a focus on automotive components. Hi Tech Resistors Pvt. Ltd. is globally recognized for its advanced manufacturing processes, adhering to IATF 16949:2016 standards.

Outcomes

Students will offered firsthand experience of resistor manufacturing processes and technologies. Provided insights into the production of automotive components and advanced manufacturing practices.



Industrial Visit : “Hi Tech Resistor, Nagpur.

INDUSTRIAL VISIT AT KEC INTERNATIONAL LIMITED, BUTTIBORI, NAGPUR

Objective

To provide Electrical Engineering students with practical insights into power transmission and distribution, and to understand essential skills and operations in the industry.

About the Program

On February 21, 2024, the Department of Electrical Engineering organized an industrial visit to KEC International Limited, Buttibori, Nagpur. The visit, attended by 45 students, was coordinated by Mr. Manish Shahane and focused on "Power Transmission & Distribution." Mr. Saurabh Marshatewar, Sr. Engineer at KEC, briefed the students on the company's history, industry evolution, and the essential skills required for organizational work. The visit included a tour of the Tower Testing Unit plant, providing practical insights into industry operations and highlighting the importance of teamwork and communication in professional settings.

Outcomes

Visit provided first-hand experience of power transmission and distribution operations. Offered knowledge about KEC's history and the evolution of the power transmission industry. Emphasized the skills necessary for working in the industry and the importance of teamwork and communication.



INDUSTRIAL VISIT AT MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED (MSEDCL) 33KV/11KV SUBSTATION, KHAPARI NAGPUR

Objective

To provide Electrical Engineering students with practical insights into power distribution operations and maintenance procedures at a 33kV/11kV substation.

About the Program

On April 16, 2024, the Department of Electrical Engineering organized an industrial visit to the Maharashtra State Electricity Distribution Company Limited (MSEDCL) 33kV/11kV Substation in Khapri, Nagpur. The visit, attended by 54 students, was guided by Er. Monoj Puri, Assistant Engineer at MSEDCL. Students received a comprehensive overview of the substation's operations, including power distribution, maintenance procedures, and safety protocols. The visit offered hands-on experience, allowing students to observe and understand theoretical concepts in a real-world setting. Professor Dr. Pratik Ghutke, Head of the Electrical Engineering Department, praised the students' enthusiasm and highlighted the importance of such visits in bridging the gap between academic knowledge and practical applications.

Outcomes

Demonstrated the application of theoretical concepts in a real-world setting. Enhanced students' understanding of power distribution and maintenance through practical exposure. Improved awareness of career opportunities and industry practices in electrical distribution.



Photo Students and Faculty at Visit Spot



Thanking letter Deliver to the Assistant Engineer of SubStation

INDUSTRIAL VISIT AT ROYAL WEBTECH PVT LTD NAGPUR

Objective

To provide Information Technology students with practical insights into advanced digital technologies, including mobile applications and databases, and to enhance their understanding of real-world industry practices.

About the Program

On April 16, 2024, the Department of Information Technology organized an industrial visit for 2nd and 4th-year students to Royal Webtech Pvt Ltd in Nagpur. The visit, attended by 45 students, aimed to offer practical knowledge about advanced digital technologies, including mobile applications and databases. Students gained awareness of new technologies and the importance of building relationships with industry professionals, which can enhance their job prospects. The visit effectively bridged the gap between theoretical learning and real-world applications, enriching the students' understanding and preparing them for future career opportunities.

Outcomes

Provided hands-on experience with advanced digital technologies, including mobile applications and databases. Enhanced understanding of current technological trends and industry practices Prepared students for future career opportunities by enriching their knowledge and understanding of industry practices.



"Photo of Students with Expert"



Thanking Letter given to the Expert

INDUSTRIAL VISIT AT XCELLER IT SERVICES, IT PARK, NAGPUR

Objective

To provide Information Technology students with insights into the internal workings of a corporate IT services company and to expose them to practical challenges faced by organizations in the business world.

About the Program

On April 29, 2024, the Department of Information Technology, under the Indian Society of Technical Education (ISTE) students chapter, organized an industrial visit to Xceller IT Services, IT Park, Nagpur. The visit, attended by 61 students, aimed to offer a comprehensive understanding of the company's operations and the solutions it provides to corporate and educational institutions in India. The visit highlighted the practical challenges faced by organizations and aimed to sensitize students to real-world business environments. By exploring the internal workings of Xceller IT Services, students gained valuable insights into the industry, bridging the gap between academic learning and practical applications.

Outcomes

Visit provided insights into the internal workings of a corporate IT services company. Improved awareness of career opportunities and industry practices in IT services.



“Delivering Information about IT career”



“Students with Faculty and Expert of Industry”

INDUSTRIAL VISIT AT CLICK2CLOUD MIHAN, NAGPUR

Objective

To provide Master in Computer Applications (MCA) students with practical insights into the IT industry, focusing on cloud technologies and career development.

About the Program

On April 30, 2024, Tulsiramji Gaikwad-Patil College of Engineering & Technology organized an industrial visit for 1st and 2nd year MCA students under the ISTE Students Chapter. A total of 50 students participated in the visit to Click2Cloud, Nagpur. Ms. Aditi Bajpai, HR at Click2Cloud, introduced students to the company's products, including Agro Pilot and Cloud Brain, and discussed the software technologies used in the industry. She provided insights into the skill sets required for job opportunities and addressed students' queries. Mr. Praveen Thanekar, also from Click2Cloud, shared valuable techniques for clearing global certification examinations.

Outcomes

Students Gained understanding of Click2Cloud's products and cloud technologies. Students Learned about the skills needed for career opportunities in the IT sector.



“Glimpses of Students and Faculty”



“Delivering Information about Cloud Technology”

SIX DAY INDUSTRIAL TOUR AT KULLU MANALI

Objective

To offer Electrical Engineering students practical insights into power systems in mountainous regions and explore the industrial and cultural significance of Kullu Manali and Delhi.

About the Program

From March 16 to March 22, 2024, the Department of Electrical Engineering at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur, organized an industrial tour under the ISTE Students Chapter. This enlightening tour, attended by 30 students and two faculty members, provided an opportunity to study power systems in the challenging mountainous environment of Kullu Manali. The program also included explorations of industrial landscapes and cultural landmarks in India's capital, Delhi. The tour aimed to bridge theoretical knowledge with real-world applications and offer a comprehensive understanding of electrical systems and their implementation in diverse environments.

Outcomes

Students gained insights into power systems and their management in mountainous terrains. Explored the industrial landscape and operational challenges in Kullu Manali.: Experienced the cultural and technological advancements of Delhi.



"Photo During Power Plant Visit at Kullu"



Electrical engineers gather around the campfire to discuss insights gained from their exploration of power substations, igniting sparks of innovation amidst the serene backdrop of nature



Exploring Electrical Engineering on Thin Ice: Analyzing Power Systems Dynamics while Ice Skating in Kullu Manali"



"Electrical engineer trekking through rugged terrain, on a quest to unravel the secrets of power systems in remote landscapes."

TWO DAYS WORKSHOP ON AEROMODELLING AND BASICS OF DRONE PILOTING

Objective

To provide practical knowledge and hands-on experience in aeromodelling and drone piloting, focusing on UAV fabrication and flight operations.

About the Program

The Department of Aeronautical Engineering at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur, in association with the Drone Club, organized a two-day workshop on "Aeromodelling and Basics of Drone Piloting" on April 29-30, 2024. The workshop aimed to equip 69 students with practical skills in UAV fabrication and drone flying, offering in-depth sessions on both theoretical concepts and hands-on activities related to aeromodelling and drone technology.

Outcomes

Students Gained practical skills in UAV fabrication and drone piloting. Enhanced understanding of aero modelling techniques and drone flight operations. Acquired knowledge about the latest advancements in drone technology.



Guest Speaker giving the detail insight about Drone Technology

THREE DAYS WORKSHOP ON TOTAL STATION

Objective

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

About the Program

The Department of Civil Engineering at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur, organized a three-day workshop on "Total Station" from March 18-20, 2024. The workshop aimed to educate 55 second-year students about the operation and application of Total Stations in surveying. The sessions were facilitated by Mangesh K. Urade from Reyan Engineers and Land Surveyors, who provided comprehensive insights into the use of Total Stations for precise surveying and coordinate location.

Outcomes

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



“Felicitation of Expert “



Practical Demonstration by Expert



Practical Demonstration to Students



Participation Certificates Distribution

TWO DAYS WORKSHOP ON PYTHON FOR AI

Objective

To enhance students' practical skills in Python programming and its applications in artificial intelligence (AI).

About the Program

The Department of Computer Science and Engineering at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur, organized a two-day workshop on "Python for AI" from March 18-19, 2024. This workshop aimed to provide third-year students with practical skills in Python programming and its application in AI. Facilitated by Swapnil Pandey from MSIT-Nagpur, and conducted in collaboration with ISTE and CSI student chapters, the workshop focused on equipping students with the tools and techniques necessary for developing AI solutions using Python.

Outcomes

1. Enhanced Programming Skills: Students gained practical knowledge and hands-on experience in Python programming.
2. AI Applications: Acquired skills in applying Python to develop AI solutions.
3. Collaborative Learning: Benefited from insights shared by industry experts and collaboration with student chapters.



Welcome of Expert by HoD of CSE



Delivering Expert Talk



Hands on Training by Students



Hands on Training by Students

TWO DAYS WORKSHOP ON DATA ANALYTICS USING PYTHON TOOLS

Objective

To enhance students' practical skills in data analysis and Python programming using various tools.

About the Program

The Department of Computer Science and Engineering (Data Science) at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur, organized a two-day workshop on "Data Analytics using Python Tools" on April 26-27, 2024. This workshop was led by Mr. Akshay Jain from LIVEWIRE, Nagpur. The workshop aimed to provide 45 second-year students with practical skills and hands-on experience in data analysis using Python tools.

Outcomes

1. Enhanced Data Analysis Skills: Students gained practical experience in analyzing data using Python.
2. Proficiency in Tools: Learned to use Python tools for data analytics effectively.
3. Hands-On Experience: Benefited from hands-on sessions and expert guidance from industry professionals.



Introductory speech by Mr. Akshay Jain



Hands-on practical of Python tools



Hands-on practical of Python tools



Valedictory of Workshop with felicitation of Expert

TWO DAYS WORKSHOP ON REAL TIME INDUSTRIAL ORACLE DATABASE ADMINISTRATION

Objective

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

About the Program

The Department of Information Technology at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur, organized a two-day hands-on workshop on "Real-Time Industrial Oracle Database Administration" on July 22-23, 2023. The workshop was led by Mr. Nikhil Agrawal, Project Manager at Perficient Pvt. Ltd., Nagpur. The event aimed to equip students with practical skills in Oracle database installation, usage, and real-life implementation.

Outcomes

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



“ Felicitation of Guest”



“ Felicitation of Guest”



“Expert Delivering Lecture & Hands on Training”

THREE DAYS WORKSHOP ON MOBILE ROBOTICS

Objective

To enhance students' understanding of mobile robotics through hands-on experience with electronic components, motors, and applications in mobile robots.

About the Program

The Department of Electronics & Communication Engineering at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur, organized a three-day workshop on "Mobile Robotics" from March 19 to March 21, 2024. This workshop was conducted in collaboration with the ISTE Student Chapter and was led by Mrs. Neema Ukani from NU Intelligence Pvt. Ltd.

Outcomes

1. Practical Knowledge: Students gained hands-on experience with mobile robotics components and technologies.
2. Industry Insight: Insights from industry expert Mrs. Neema Ukani provided valuable understanding of real-world applications.
3. Active Participation: The workshop fostered active engagement from both students and faculty, contributing to its success.



Glimpses of Three Days Workshop on Mobile Robotics

Inauguration of Three Days Workshop on Mobile Robotics from 19th to 21st March 2024.
Organized by ECE Department in association with NU Intelligence Pvt. Ltd. Nagpur

TWO DAYS WORKSHOP ON ARDUINO PROGRAMMING

Objective

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

About the Program

The Department of Electrical Engineering at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur, organized a two-day workshop on "Arduino Programming" for fourth and sixth semester students under the ISTE Chapter. The workshop was conducted by Mrs. Neema Ukani and Ms. Swapnali Tagde, aiming to provide hands-on experience in Arduino programming and its applications in automation systems.

Outcomes

1. Practical Skills: Students acquired practical skills in Arduino programming and its applications in automation.
2. Expert Insights: Guidance from Mrs. Neema Ukani and Ms. Swapnali Tagde enhanced understanding of Arduino systems.
3. Certification: Certificates were distributed to participants, acknowledging their proficiency and skills gained.



“Delivering Hands on Training”



“Exploring the Theoretical Knowledge”

TWO DAYS WORKSHOP ON HANDS ON TRAINING ON ELECTRIC VEHICLE

Objective

To educate students on the scope, design, operating systems, and practical applications of electric vehicles (EVs) for sustainable transportation solutions.

About the Program

The Department of Mechanical Engineering at Tulsiramji Gaikwad Patil College of Engineering & Technology (TGPCET), Nagpur, organized a two-day hands-on workshop on "Electric Vehicle." The workshop featured Mr. Bishnu Dutt Darnal as the expert, focusing on various aspects of electric vehicles, including their design, operating systems, and practical applications.

Outcomes

1. Knowledge Enhancement: Students gained insights into the design and operational aspects of electric vehicles.
2. Practical Skills: Hands-on sessions provided practical experience with EV technology and applications.
3. Sustainability Focus: The workshop emphasized the role of electric vehicles in sustainable transportation.



Inauguration of the Training Workshop



Presence of faculty members and students.



Distribution of certificates to the students.

ONE WEEK ISTE (SELF SPONSORED) FACULTY DEVELOPMENT PROGRAM ON “MULTIFACETED NATURE OF ARTIFICIAL INTELLIGENCE”

Objective

To provide participants with a comprehensive understanding of artificial intelligence (AI) and its various dimensions. The program aims to equip faculty members with the knowledge and skills necessary to effectively incorporate AI concepts into their teaching and research activities.

Experts

1. Dr. Suresh Shan - President of the CSI Student Chapter, Mumbai
2. Dr. Tausif Diwan - HOD CSE at IIIT Nagpur
3. Dr. Aatul Wadegaonkar - MD of AW Consulting and Digital Strategy Advisor at JSPM University, Pune
4. Mr. Bastin Robins - CTO of Cleverinsight, Bangalore
5. Dr. G. K. Awari - HOD, Automobile Engineering, GP Nagpur
6. Dr. Prashant Thakare - HOD, Data Science, TGPCET Nagpur
7. Dr. Anil Mokhadde - Associate Professor at VNIT, Nagpur
8. Dr. Anup Nandy - Assistant Professor at NIT Rourkela
9. Dr. Joydeep Chandra - Associate Professor at IIT Patna

Highlights

- Inaugural Ceremony: The program commenced with an inaugural function attended by 60 participants.
- o Chief Guest: Dr. Suresh Shan, President, CSI Student Chapter, Mumbai
- o Guest of Honor: Dr. Rajeshree Raut, Executive Council Member ISTE, New Delhi, Associate Professor & Dean CA, GEC, Nagpur

About the Program

The one-week ISTE Self-Sponsored Faculty Development Program titled "Multifaceted Nature Of Artificial Intelligence" was designed to offer a deep dive into AI, covering foundational knowledge and advanced applications. Through a series of expert-led sessions, the program explored various dimensions of AI, including its impact on different sectors and its integration into academic and research activities.

The program successfully achieved its objectives by providing faculty members with the skills and knowledge needed to enhance their teaching and research in AI. The comprehensive coverage of AI topics ensured that participants are well-prepared to leverage AI's transformative potential in their academic and professional endeavors.

Outcomes

- Enhanced Understanding: Participants gained a thorough understanding of AI concepts and applications.
- Increased Preparedness: Faculty members are now better equipped to integrate AI into their curriculum and research.
- Knowledge Transfer: The program facilitated the transfer of cutting-edge AI knowledge from industry experts to academia.



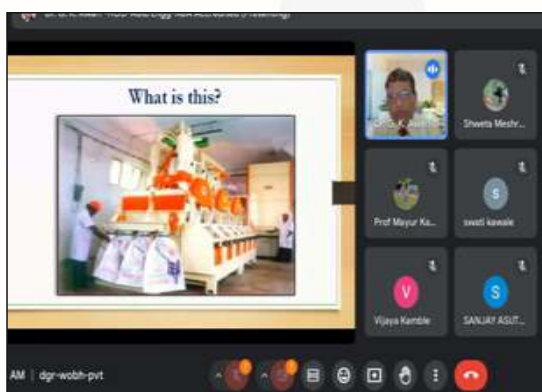
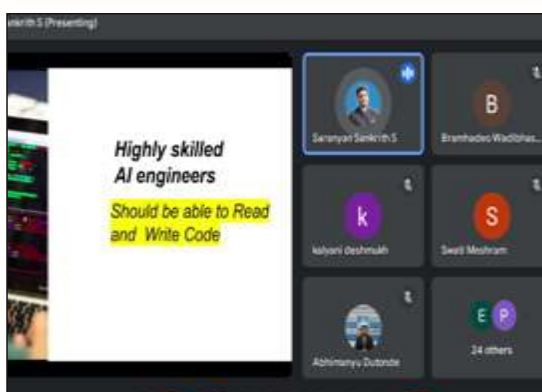
SURESH SHAN (Presenting)

Intelligent transportation systems - ITS... AIAT

Illustration of Intelligent Transportation Systems

The diagram illustrates the flow of information in an Intelligent Transportation System (ITS). It is organized into four main columns representing different stages of the process:

- Information collection and transmission:** This column lists various data sources and methods:
 - 1. Roadside sensors
 - 2. Vehicle-to-vehicle communication
 - 3. Mobile phones
 - 4. GPS
 - 5. Traffic cameras
 - 6. Roadside units
 - 7. Traffic control and signal systems
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- Information processing and storage:** This column lists the processing and storage components:
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ONE WEEK ISTE (SELF SPONSORED) FACULTY DEVELOPMENT PROGRAM ON “IOT-DRIVEN RENEWABLE ENERGY: POWERING SUSTAINABLE FUTURES”

Objective

The primary aim of this one-week Faculty Development Program (FDP) is to equip faculty members, researchers, and industry professionals with comprehensive knowledge and practical skills on integrating Internet of Things (IoT) technologies with renewable energy systems. The program seeks to:

- Enhance understanding of how IoT can improve the efficiency, reliability, and sustainability of renewable energy sources.
- Foster the development of smart and sustainable energy solutions by leveraging IoT technologies.
- Provide participants with insights into the latest advancements and practical applications of IoT in the renewable energy sector.

About the Program

The ISTE Self-Sponsored Faculty Development Program titled "IoT-Driven Renewable Energy: Powering Sustainable Futures," organized in association with SESI (Solar Energy Society of India), took place from May 20th to May 24th, 2024. The program was inaugurated on May 20th, 2024, and successfully registered 49 participants from various institutions across India.

The FDP featured a series of expert-led sessions covering:

- Integration of IoT with Renewable Energy: Exploring how IoT technologies can enhance the management and efficiency of renewable energy systems.
- Practical Applications: Understanding real-world applications and case studies of IoT in renewable energy.
- Future Trends: Discussing the future of IoT-driven renewable energy and its potential impact on sustainability.

Experts

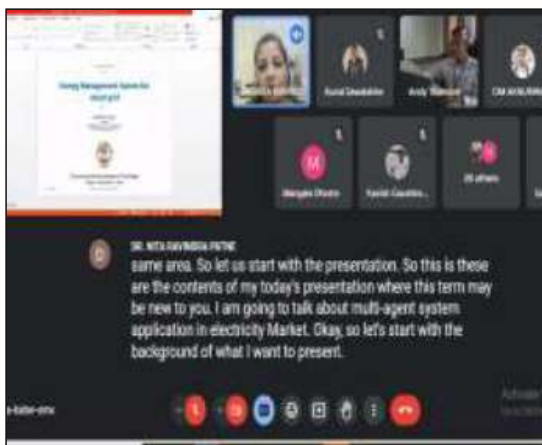
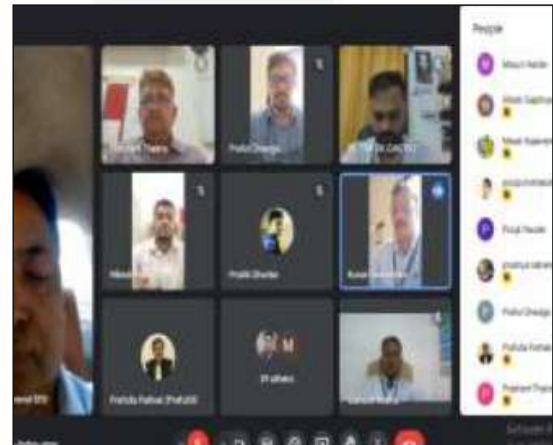
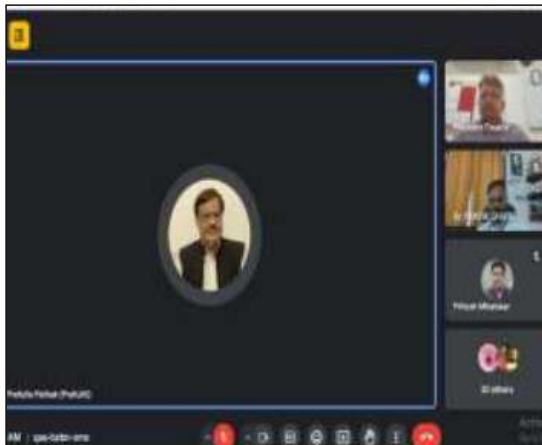
1. Dr. V.S. Verma - General Manager, Bureau of Energy Efficiency, India
2. Prof. Ganesh Wakte - Assistant Professor, TGPCET, Nagpur
3. Dr. N.R. Patne - Professor, VNIT, Nagpur
4. Dr. Rakesh Maurya - Associate Professor, SVNIT, Surat
5. Dr. G.K. Awari - HOD, Automobile Engineering, GP, Nagpur
6. Dr. Prashant Thakre - HOD, Data Science, TGPCET, Nagpur
7. Prof. Radharaman Shaha - CoE, TGPCET, Nagpur
8. Mrs. Jaya Awari - Samarpan Meditation Centre, Nagpur
9. Dr. Umesh E. Hiwase - Professor & BoS Member, RTMNU Department of Electrical Engineering

Inaugural Ceremony

- Chief Guest: Hon'ble Prafulla Pathak, President, Solar Energy Society of India, New Delhi
- Guest of Honor: Dr. S. M. Ali, Director General, Solar Energy Society of India, New Delhi

Outcomes

- Enhanced Knowledge: Participants gained a comprehensive understanding of IoT technologies and their integration with renewable energy systems.
- Practical Skills: The program provided practical skills for implementing IoT solutions in renewable energy projects.
- Increased Awareness: Attendees were exposed to future trends and innovations in the field, fostering a deeper appreciation for sustainable energy solutions.
- Professional Development: The program supported the professional development of faculty members, researchers, and industry professionals by providing insights into cutting-edge technologies and practices



About the Program

The ISTE Self-Sponsored FDP titled "Intelligent Automation through Artificial Intelligence, Machine Learning & Deep Learning" was organized by the Department of Information Technology and the Department of Master in Computer Applications at TGPCET. The program featured a mix of theoretical sessions and hands-on training, delivered by ten eminent experts from various parts of India.

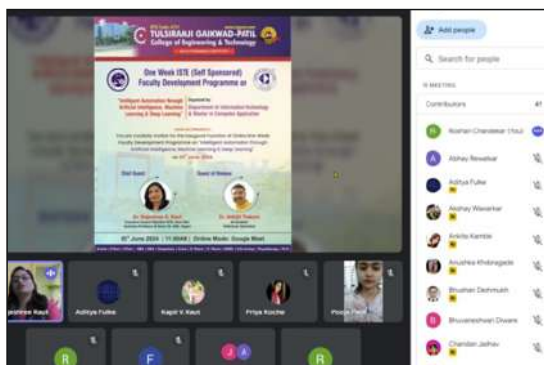
Program Highlights:

- Inauguration: The FDP was inaugurated on 3rd June 2024 by Dr. Rajeshree D. Raut, with Dr. Pradnya Borkar delivering the opening session on "Fundamental Concepts of Artificial Intelligence." Dr. Arjit Mondal followed with a session on "Deepfake: Generation and Detection."
- Day 1 (3rd June 2024):
 - o Session 1: Dr. Pradnya Borkar - "Fundamental Concepts of Artificial Intelligence"
 - o Session 2: Dr. Arjit Mondal - "Deepfake: Generation and Detection"
- Day 2 (4th June 2024):
 - o Session 1: Dr. G. K. Awari - "Integration of Automation and Artificial Intelligence in Industry"
 - o Session 2: Dr. M. P. Kurhekar - "Reinforcement Learning and Its Applications"
- Day 3 (5th June 2024):
 - o Session 1: Dr. Jitendra Tembhurne - "Deep Learning Applications"
 - o Session 2: Dr. Latish Mallik - "Machine Learning & Data Analytics"
- Day 4 (6th June 2024):
 - o Session 1: Mr. Ashwin Balani - "Case Study – Hands-on Session"
 - o Session 2: Dr. Nidhi Lal - "Machine Learning Algorithms for Real-World Applications"
- Day 5 (7th June 2024):
 - o Session 1: Prof. Anup Gade - "Overview of State-of-the-Art Research in AI/ML"
 - o Session 2: Dr. Abhijit Thakre - "Generative Artificial Intelligence"
 - o Valedictory Function: Conducted by Dr. Arjit Mondal, with a vote of thanks delivered by Prof. Abhay Revatkar.

Participants: 52 participants registered from across India.

Outcomes

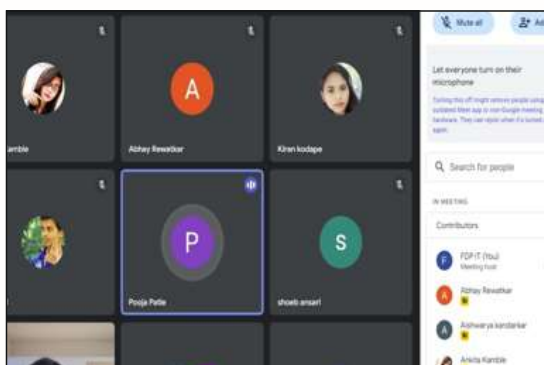
- Enhanced Knowledge: Participants gained a comprehensive understanding of AI, ML, and DL technologies and their applications in intelligent automation.
- Practical Skills: Hands-on sessions and case studies provided practical skills and real-world applications of AI/ML/DL.
- Research Insights: Insights into state-of-the-art research and future trends in AI/ML.
- Networking: Opportunities to connect with experts and peers in the field of AI and automation.
- Certification: All participants received certificates upon successful completion of the program and submission of assignments and feedback



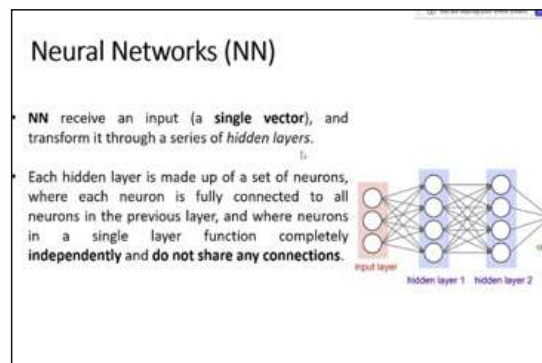
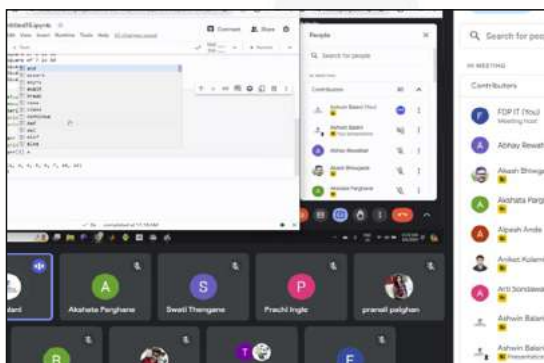
Inauguration of FDP with Convenor, Co-convenor, and all Organizing Committee members in the presence of Chief Guest - Hon'ble Dr. Rajeshree Raut, Executive Council Member ISTE, New Delhi, Associate Professor & Dean CA, GEC, Nagpur



Dr. Pradnya Borkar Assistant Professor SIT, Nagpur on topic of "Fundamental Concept of Artificial Intelligence."
Dr. Arjit Mondal Professor IIT, Patna on the topic of Deepfake: Generation and Detection



Dr.G.K.Awari Professor & Head , Automobile Engineering Department Government Polytechnic Nagpur on the topic "Integration of Automation and Artificial Intelligence in Industry"



Dr.M.P.Kurhekar Associate Processor VNIT ,Nagpur on the topic "Reinforcement Learning and its Application"

About the Program

The FDP, organized in association with the Indian Society for Technical Education (ISTE) and the Institution's Innovation Council, focused on the latest advancements in 3D printing technology. The program featured sessions led by experts from various institutions and industries, providing a comprehensive overview of 3D printing techniques and their applications.

Program Highlights:

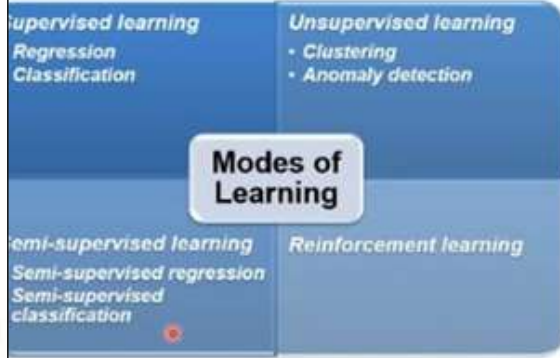
- Inauguration: The FDP commenced on 11th June 2024, with the inaugural function conducted online. The Chief Guest was Dr. Pavan Kankar, Professor, Department of Mechanical Engineering, IIT Indore. Dr. A. M. Kuthe, Professor, Department of Mechanical Engineering, VNIT, Nagpur, served as a key resource person.
- Day 1 (11th June 2024):
 - o Opening Session: Dr. Pavan Kankar - Introduction to 3D Printing and Recent Advancements
 - o Keynote Address: Dr. A. M. Kuthe - Applications of 3D Printing in Engineering and Design
- Day 2 (12th June 2024):
 - o Session 1: Prof. Abhijeet Raut - Emerging Trends in 3D Printing Technology
 - o Session 2: Prof. Radharaman Mishra - 3D Printing in Manufacturing and Prototyping
- Day 3 (13th June 2024):
 - o Session 1: Dr. Vijay Talodhikar - Applications of 3D Printing in Medical and Aerospace Fields
 - o Session 2: Prof. Vishwjeet Ambade - Hands-on Training with 3D Printing Software
- Day 4 (14th June 2024):
 - o Session 1: Mrs. Jaya Awari - Workshop on Creative Design and 3D Printing
 - o Session 2: Dr. G. K. Awari - Integrating 3D Printing into Engineering Education
- Day 5 (15th June 2024):
 - o Session 1: Mr. Murtaza Cochinwala - Innovative Applications and Future Trends in 3D Printing
 - o Valedictory Function: Summary of the week's learning and certificate distribution.

Participants: 60 participants registered from various institutions.

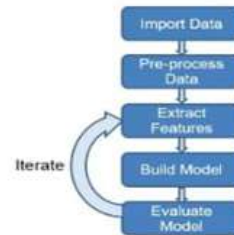
Outcomes

- Enhanced Understanding: Participants gained a thorough understanding of 3D printing technology, including its fundamentals, advancements, and applications.
- Practical Skills: Hands-on sessions provided participants with practical experience in using 3D printing software and hardware.
- Innovation and Research: The program encouraged participants to explore new innovations and research opportunities in the field of 3D printing.
- Industry Insight: Attendees learned about the latest trends and applications of 3D printing across different sectors, from manufacturing to medical fields.
- Networking: The event facilitated networking opportunities with experts and peers, fostering professional connections and collaboration.

INTRODUCTION



Basic Building Blocks



SMART Foundry

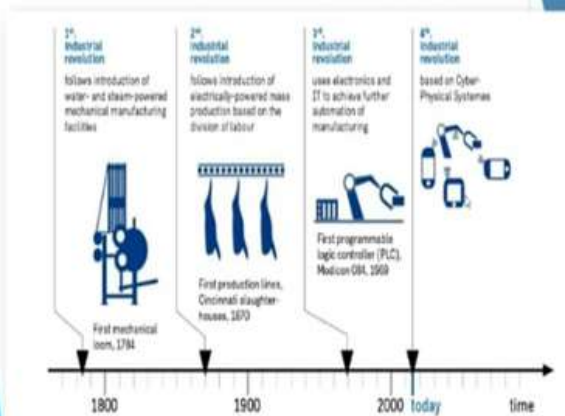
(Sustainable Metalcasting by Advanced Research and Technology)

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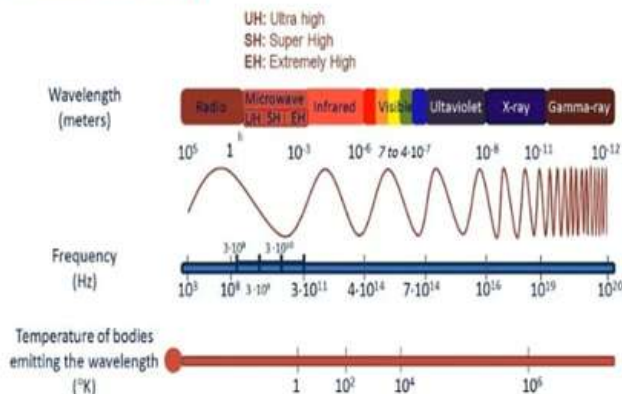


- Focus on design & manufacturing of innovative product (customized medical implant)
- Serving the needs of medical fraternity in semi urban/ rural sector in India

Evolution of Automation



Introduction: MW energy



Research Process Characteristics

- ✦ Research is an extremely cyclic process.
- ✦ This isn't a weakness of the process but is part of the built-in error correction machinery.
- ✦ Because of the cyclic nature of research, it can be difficult to determine where to start and when to stop.

