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TULSIRAMJI GAIKWAD-PATIL
College of Engineering & Technology

Approved by AICTE, New Delhi and Govt. of Maharashtra | Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

— AN AUTONOMOUS INSTITUTE —



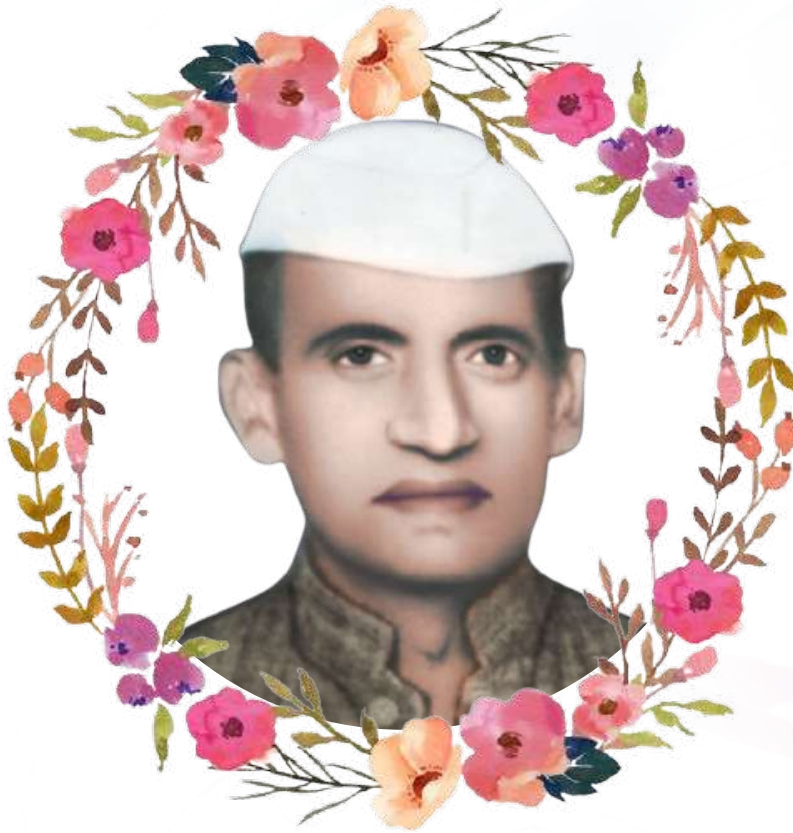
RIPPLES

The Spark of New Beginnings

ANNUAL MAGAZINE
2024-25

B.TECH | B.ARCH | M.TECH | MBA | MCA | BBA | BCA | POLYTECHNIC |
B.PHARM | D.PHARM | BAMS | B.SC NURSING | GNM NURSING | PHYSIOTHERAPY | PH.D

OUR INSPIRATION



Late **Shri. Tulsiramji Gaikwad-Patil**

(1st April 1915 - 18th July 1986)

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

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



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

New beginnings bring in joy and excitement. It is my pleasure to put a write up for the college magazine “RIPPLES”. A college magazine is an eloquent expression of the progress and outstanding achievements that a college has to its credit. An academic institution magazine carries the contributions reflecting spirit and goals of the students, faculty and other team members of an institution. Through College Magazine students get an opportunity to exhibit their extracurricular talents. They get an opportunity to pen down their thoughts and talents and make the people around them know about the glory of their institution. The role of a magazine is therefore vital in promoting what an institution offers. I take this opportunity to congratulate Editorial Board for their unrelenting efforts in compiling this magazine.

FROM MANAGEMENT DESK



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

Nurturing creativity and inspiring innovation are two of the key elements of a successful education, and a college magazine is the perfect amalgamation of both. I am delighted that Tulsiramji Gaikwad-Patil College of Engineering & Technology has published the college magazine “Ripples” which showcases the talent and skills of the students in academics, curricular and extracurricular activities. The Editorial Board has done a fair job to put up facts before students and parent community. To express one's thought, College Magazine is the best platform and this is what our students have expressed in terms of contributions towards the magazine. I appreciate Editorial Team for unleashing the hidden potential of the student and making this Magazine a chapter of TGPCET history.

FROM MANAGEMENT DESK



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

“Education is the most powerful weapon you can use to change the world.” It gives me an immense pleasure to enlighten that Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur provides a platform for every students to develop his/her learning skills through the college magazine RIPPLES. This magazine will enlighten you with the important milestones that College has achieved this year. Besides, our budding talents have expressed their thoughts, ideas, hopes, feelings, aspirations and convictions in a creative way. The students were participated in seminars, workshops and industrial visits to improve the skills required. This magazine is a goodsource of guidance for faculty and coming batches of students in choosing activities of their choice in their future for building their career.

I congratulate all the stake holders including editorial board and students of the college for bringwing this edition of Magazine 24-25. Wish you all the best.



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

It gives me pleasure that the TGPCET is presenting out College Magazine“RIPPLES”. We, at the management, are ever willing to encourage and support activities by students and faculty to promote the cause of the quality education in our campus. Presentation like this brings into light a wide variety of engineering & technology innovation. They also provide the much needed exposure, which proves a stepping stone for the future careers of students. As an institution conceived and created solely by academicians, we are trying our best to provide varied learning opportunities to our student. This magazine is one more step in this direction. The overwhelming response we received from all students of College is proof enough that we are marching in the right direction.

FROM PRINCIPAL'S DESK



Dr. P. L. Naktode
Principal

It is matter of delight to know that Tulsiramji Gaikwad- Patil College of Engineering & Technology is publishing College Magazine “RIPPLES”. Technology is moving at a very fast pace. What was breakthrough yesterday is absolute today. This has made it imperative that future technocrats must be familiar not only with technical skill but also with the technology of tomorrow. Creation of such magazine has a definite purpose and goal. It will provide information on the different aspects of the all departments and its program for the benefits of student and public at large. This magazine we believe will help us in pursuing our goals in a more effective and meaningful way. I hope your humbles effort will go a long way in putting the college the information super highway for making the institution a real instrument of socio economics change while improving the quality of education through technology. It is for the faculty and student to put this magazine to better use and achieve the desired result. I sincerely hope that it will mark a new chapter in the history of great achievement of the institution.



Dr. Pragati Patil
Vice-Principal

At the outset, I warmly applaud TGPCET for bringing us the latest edition of the college magazine "RIPPLES". This magazine is intended to bring out hidden literacy talent of students and faculty and also to inculcate leadership skills among them. It is a great pleasure to see the creative expressions of students who had contributed. This magazine has made an earnest attempt in this direction and brought out certain aspects of the college to the eyes of the public so that they may understand and know the college even better. I strongly believe that it would be an excellent medium through which the world can learn about the potential and achievements of TGPCET. I congratulate the members of the editorial board for their tireless efforts.

Wishing the magazine a lasting success!

EDITOR'S DESK



Prof. Nikita Khanzode
Assistant Professor, TGPCET

We feel great pleasure to present yet another issue of our College Magazine “RIPPLES”. 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.....!

Directors/ CoE/ Registrar/ Deans/ IQAC



Dr. Amey Khedikar
Registrar



Mr. Mukul Pande
Director, IT



Mrs. Surekha Raut
Director Finance



Dr. Prashant Thakare
COE



Dr. Anup Gade
Dean R&D & Dean
Academics



Prof. Ritesh Banpurkar
Dean IQAC



Dr. Pratik Ghutke
Dean Academics (PG)



Dr. Nitin Chore
Dean T & P



Prof. Vivek Patil
Dean, Admission Cell



Prof. Anup Bagade
Dean Skill Development Cell



Dr. Snehal P. Abhyankar
Dean Student Council & CSR

Department Heads



Dr. Vijay Talodhikar
ME



Dr. Lowlesh Yadav
CSE



Dr. Swapnili Karmore
AL & ML



Dr. Rohit Kalnake
Bio-Tech



Dr. Mamta Takarkhede
S & H



Prof. Rohini Pochhi
ECE



Prof. Abhay Rewatkar
IT



Prof. Abhimanyu Dutonde
CSE (DS)



Dr. Ganesh Wakte
EE



Prof. Divyani Harpal
CE



Prof. Vishwjeet Ambade
AE



Prof. Roshan Chandekar
MCA



Prof. Atul Tekade
MBA



Dr. Suhashini Chaurasia
Chief Co-ordinator BBA & BCA

ESTEEM DELEGATES AT OUR CAMPUS



VISIT OF DIGNITARIES

Eminent Speakers Indian Delegates



Prof. Rajendra B Kakde
Adviser-I, AICTE,
New Delhi



Dr. Alok P. Mittal
Former Member
Secretary AICTE,
New Delhi



Dr. Y. G. Prasad
Director, ICAR-CICR



**Hon. Dr. Vedprakash
Mishra**
Chancellor KIMS
Deemed University, Karad



Hon. Dr. S. P. Kane
Former Vice Chancellor,
RTMNU, Nagpur



Dr. Manoj B. Daigavane
Joint Director,
Technical Education,
Regional Office, Nagpur



Hon. Dr. V. M. Mohitkar
Secretary, MSBTE,
Mumbai



Hon. Dr. Sanjay Dudhe
Pro-Vice Chancellor,
RTMNU, Nagpur



Hon. Dr. Raju Hiwase
Registrar
RTMNU, Nagpur



Hon. Dr. Kshitij Gupta
I/C Director,
IIT, Delhi



Dr. Bhimaraya Metri
Director, IIM Nagpur



Hon. Dr. Sanjay Palsule
Asso. Professor,
IIT, Roarkee

Foreign Delegates



Dr. G.K. Awari
Head of Department
Automobile Engineering
GP, Nagpur



Mr. Abhijit Shukla
CEO, Mega Power Solar,
Nagpur



Mr. Bastin Robin
CTO / Chief Data Scientist
DMI Draexlmaier, Greece
Cleverinsight Pvt. Ltd.,
Bengaluru



Mr. Zisis Rousopoulos
Managing Director,
DMI Draexlmaier, Greece



Dr. Kitirote Wantala
Associate Professor,
Khon Kaen University, Thailand



Dr. Arkom Palamanit
Assistant Professor,
Prince of Songkla University,
Thailand



Dr. Chan Mieow Kee
Deputy Dean (Research),
Segi University, Malaysia



Dr. Juntakan Taweekun
Prince of Songkla
University, Thailand



Hon. Prof. Margratt Lieb
Tokyo University,
Japan



Hon. Mick King
Middlesex University,
UAE



**Hon. Prof. Ewa
Doneshjezo**
Jagellonian University,
Poland



Hon. Dr. Christine Coombe
President,
TESOL International (2012-13),
UAE



Hon. Dr. Joseph Williams
Texas A&M University,
Qatar



Hon. Noboru Yamada
CEO, Hilltop Marketing &
Hilltop Marketing Service
Tokyo, Japan



Hon. Ms. Yuko Ueno (kaneko)
CEO, Navi Co., Ltd.
Chairman,
Mothering Management Association



Hon. Ms. Mizuki Sato
Director,
Maruhachi Tent Co., Ltd



Hon. Mr. Tomoya Ueno
Managing Director,
NAVI Co., Ltd.



Hon. Ms. Miki Maeda
Sales Engineer at
Maruhachi Tent Co., Ltd
Nagoya, Japan.

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NAAC Accredited

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TULSIRAMJI GAIKWAD-PATIL College of Engineering & Technology

(Approved by AICTE, New Delhi and Govt. of Maharashtra | An ISO 9001:2015 Certified Institution)

An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur



VISION

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



MISSION

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

Courses Offered (Autonomous / NBA / NAAC A+)

Under-Graduate (B.Tech.) (4 Years)	Branch Code	Intake
Civil Engineering (NBA Accredited)	415119110	60
Mechanical Engineering (NBA Accredited)	415161210	90
Electrical Engineering (NBA Accredited)	415129310	120
Electronics and Communication Engineering (NBA Accredited)	415137010	60
Computer Science & Engineering	415191210	120
Information Technology	415124610	120
Aeronautical Engineering	415100210	120
Computer Science and Engineering (Data Science)	415191210	120
Biotechnology	415108210	60
Artificial Intelligence & Machine Learning	415192110	120

Post-Graduate (M.Tech.) (2 Years)	Branch Code	Intake
Aeronautical Engineering	415196310	12
Computer Science & Engineering	415124210	18
Electronics Engineering (Comm.)	415137710	18
Artificial Intelligence & Machine Learning	415194910	18
Electric Vehicle Technology	415196410	18
Mechanical Engineering Design	415190410	24
Structural Engineering	415121210	30
Integrated Power Systems	415129610	42

Diploma in Engineering (3 Years)	Branch Code	Intake
Electronics & Comm. Engineering	415137010	30
Information Technology	415124610	60
Civil Engineering	415119120	60
Electrical Engineering	415129320	60
Mechanical Engineering	415161220	90
Computer Science and Engineering	415124220	120

Post-Graduate (M.B.A.) (2 Years)	Branch Code	Intake
Master of Business Administration (MBA)	415144110	300

Post-Graduate (M.C.A.) (2 Years)	Branch Code	Intake
Master in Computer Application (MCA)	415110110	300

PROFESSIONAL BODIES

Various activities are conducted under students and faculty chapters under the ages of

- **Indian Society for Technical Education- (ISTE)**
- **Society of Automotive Engineers India (SAE)**
- **The Institution of Engineers (India) - IE(I)**
- **The Institution of Electronics & Telecommunication Engineers (IETE)**
- **Solar Energy Society of India (SESI)**
- **Computer Society of India- (CSI)**
- **Indian Concrete Institute-(ICI)**
- **Indian Water Works Association (IWWA)**

GLIMPSES OF EVENTS:

❖ Indian Society for Technical Education (ISTE):



Chief guest Dr. Sanajay Balamwar,
Observing the students project



Group photo of all event winners

❖ The Institution of Engineers (India) IE(I):



Welcome of Expert Mr. Akshay pachpor by IEI Students
Presidents Rohit Bhojar



Award winners of the institute in third regional
conclave of IE(I) student's chapter on "Cyber security
and Digital Forensics" at Jalgaon

❖ **Computer Society of India (CSI) :**



Re-installation of Computer Society of India (CSI) Chapter and Seminar on "Intellectual Property Rights"



Faculty Interaction Programme. Hon. Chief Guest of function was Dr. Abhay Wagh(Director, Directorate of Technical Education, Maharashtra State, Mumbai)

❖ **Indian Concrete Institute (ICI) :**



Guest lecture on Double Decker Metro Bridge



Industrial Tour at Pench Project

❖ **Indian Water Works Association (IWWA):**



"Site Visit to CSIR-NEERI Campus" on 83rd CSIR Foundation Day (04-10-2024)



ARTEX Forum Reinstallation, IWWA Student's Chapter Reformation, Felicitation of Students & Expert Lecture "Waste to Energy: Fueling a Sustainable Future" (07-08-2024)

INSTITUTE ACHIEVEMENTS



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
Deputy Chief Minister,



**Best ISTE Student Chapter
Award 2021**



Best **ISTE Faculty**
Chapter Award 2019



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



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

INSTITUTIONAL MILESTONES



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

MEMORANDUM OF UNDERSTANDING (MoU'S)



MOU signing with HillTop Marketing Co. Ltd. Tokyo, Japan



Prajapita Brahma Kumaris Ishwariya Vishwa Vidyalaya, Mount Abu, Rajasthan



MOU signing with EduSkills Foundation



Indian Institute of Information Technology, Nagpur (IIITN)



VIGNAN'S UNIVERSITY
Foundation for Science, Technology & Research
(BOLD UAR 3 of UGC Act of 1956)



Govt. College of Engineering, Chandrapur - Tata Technologies Ltd.



RCOEM-TATA CIIT



REDATS INFOTECH



VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY (VNIT)



National Infotech, Surat



Infosai Software, Nagpur



ACADEMIC FOREIGN COLLABORATIONS



SEGI UNIVERSITY, MALAYSIA



Prince of Songkla University



Lincoln University College Malaysia

INTERNATIONAL CONFERENCE

10th International Conference on “Indian Knowledge System, Science and Spirituality for Advancing Technology”
(IC-IKSAT 2K24)



Indian Knowledge System,
Science and Spirituality for
Advancing Technology”
IC-IKSAT-24



TRAINING & PLACEMENT CELL

Sufficient infrastructure is available in Training and Placement Cell facilities like well equipped with ample infrastructure in Terms of Testing halls, Consultancy Hall for Pre Placement Talks, Presentations, CRT Training, Apptitude Test etc. The goal of Training & Placement Cell is to provide employment opportunities and world class training to TGPCET Students in Leading Organizations. IIPC & EDC Cell are also available in our college to strengthen industry and institute relationship.

Events Organized by Training & Placement:



Campus Drive of Neeyamo Enterprises Solutions Pvt. Ltd



Campus Drive of The Kiran Academy



Campus Drive of SGS Technical Services Pvt. Ltd.
Indore (30th March'24)



Campus Drive of Webtech Developers Pvt. Ltd.
Pune (29th March'24)



T & P organized HR Conclave 2025

PLACEMENTS

Equipped with skills, exposure and the ability to not just thrive but lead in any environment, it's little wonder that global core engineering and other companies come here to find great candidates through on-campus placement drives.

88% Students successfully placed in the last 3 years

60+ Companies visited for recruitment in 2024-25

₹ 21 LPA Highest package offered

₹ 4.5 LPA Average package offered

OUR MAJOR RECRUITERS



STAR PLACEMENTS



Mr. Srikrushna Shirgawa
Civil Engineering

₹ 21 LPA



Mr. Varis Rana
Computer Science & Engineering

₹ 19 LPA



Mr. Arpit Mandal
Information Technology

₹ 17 LPA



Mr. Saurabh Akulwar
Mechanical Engineering

₹ 12 LPA



Mr. Rishabh Jat
Mechanical Engineering

₹ 12 LPA



Mr. Rohit Bisen
Civil Engineering

₹ 7.8 LPA



Ms. Dhanashree Borkar
Computer Science & Engineering

₹ 7 LPA



Mr. Nikhil Brahmapurikar
Computer Science & Engineering

₹ 6.72 LPA



Mr. Jeet Agrawal
Information Technology

₹ 6 LPA



Mr. Jayesh Gharad
Master in Computer Application

₹ 4.47 LPA



Ms. Akasksha Nikhade
Aeronautical Engineering

₹ 4.42 LPA



Mr. Bhairav Shende
Information Technology

₹ 4.40 LPA

HR CONCLAVE

Conclave 2025 on April 11-12, 2025, themed “Empowering the Next Generation: Industry-Academia Integration for a Competitive Edge.” The event began with a lamp-lighting ceremony and a welcome address by Principal Dr. P. L. Naktode, highlighting the importance of HR and industry-academia collaboration.

Starting with Core Sector, on the 11th April, Mr. Rajesh Jain (JSW Steel) discussed goal-setting, passion, and work-life balance, while Mr. Rahul Pathak (Reliance Jio) emphasized leadership and communication skills.

For the IT Sector on 12th April 2025, Dr. Mukta Paliwal (Novartis) focused on global reskilling and adaptability, while Ms. Swarnalatha (HCL Tech) encouraged embracing new technologies and developing professional skills.

The conclave saw 102 industry professionals and 120 students participating, with panelists from leading organizations, bridging industry needs and academic learning.



Inaugural Function of Core HR Conclave



Felicitation of Rajesh Jain by Mr. Akash Gaikwad, Vice Chairman



Panelist forum for IT Panel Discussion



Felicitation of Swarnlatha, DGM-HR, HCL Tech by Vice-Principal Mam



Felicitation of Ms. Mukta Paliwal, Associate Director (DS), Novartis by Principal Sir



Addressed by Rajesh Jain, VP and Plant Head, JSW Steel Coated Product Pvt. Ltd., Nagpur



Dr. Anup Gade welcoming Mr. Rajesh Jain, Chief Guest



Lamp Lighting Ceremony of Prayas 2025



Dignitaries on the Dias



Felicitation of Vrushabh Chaple by Dr. P. L. Naktode, Principal



HR Representative discussion with Dr. P. L. Naktode, Principal



Interview of Itpreneur, Nagpur



Interview of Reliance Jio Infocomm Pvt Ltd, Mumbai



Interview of Skymentor Technologies Pvt Ltd, Nagpur



Interview of Eduspark, Nagpur



Interview of Teztech, Nagpur

PRAYAS 2025

CENTERS AND LABORATORIES

AKASH INCUBATION CENTRE



TGPCET has been approved as a Business Incubator (BI) by ministry of Micro, Small & Medium Enterprises (MSME), and Government of India.

APPLE LAB

With an incredible infrastructure, we have set-up an Apple lab for our students. The lab enables the students to nurture their creativity skills in developing iOS application that drive the today's digital world.



DRONE LAB



The institute has a fully equipped drone technology lab to familiarise the student towards this new technology. . Drone Technology is rapidly growing in popularity and has broken down hard traditional barriers across industries. From scanning an inaccessible location or military base to monitoring an area or multiple areas, drones are proving to be extremely beneficial.

CYBER SECURITY LAB

The Cyber Security Laboratory is a state-of-the-art, dedicated space in which students can safely engage in cyber related activities, including malware detection and deactivation, and penetration testing, in a contained and controlled environment without possible impact to other campus networks.



MEDIA ROOM

It provides details of all major activities of the college through press releases and other multimedia formats.



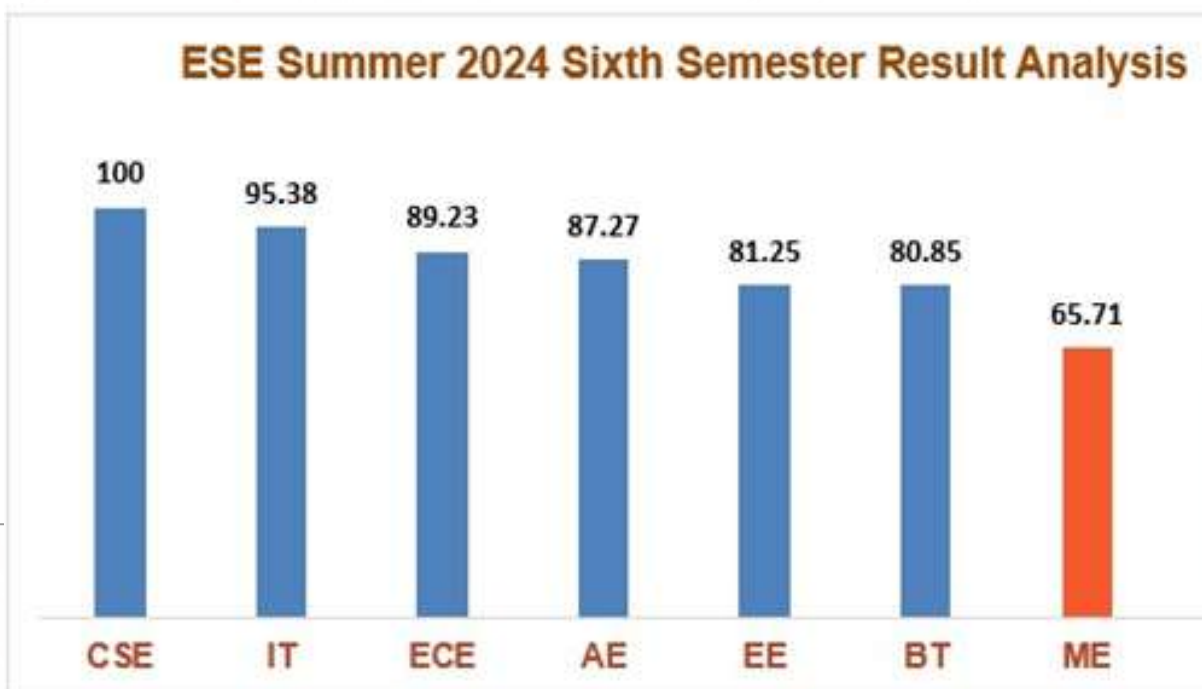
EXAMINATION CENTER

The examination division of TGPCET as an autonomous institute is headed by Controller of Examination for the smooth and timely conduct of the examination work.



RTMNU RESULT ANALYSIS EIGHTH SEMESTER SUMMER-2024

Sr. No.	Name of Department	Result of this year
1	Computer Science and Engineering	100%
2	Information Technology	95.38%
3	Electronics and Communication Engineering	89.23%
4	Mechanical Engineering	65.71%
5	Electrical Engineering	81.25%
6	Aeronautical Engineering	87.27%
7	Biotechnology	80.85%



FIRST CONVOCATION CEREMONY



Academic Procession



Lightning Lamp



**Felicitation of Guest, Dr. Raju Hiwase,
Registrar, RTMNU, Nagpur**



**Felicitation of Guest,
Mr. Arvind Kumar,
Center Head, TCS, Nagpur**



**Guest and Dignitaries
on the Dias**



**Gold Medal Distribution
by hands of
Mr. Arvind Kumar, Center Head,
TCS, Nagpur**



**Felicitation of Chief Guest
Dr. Sanjay Dudhe,
Pro-Vice-Chancellor, RTMNU,
Nagpur**



**Photo Session of First
Batch of Autonomous**



**Celebration of Graduation
Day by students**

IDEA LAB



"Idea Lab: Where Ideas Come to Life

"Idea Lab is a state-of-the-art innovation hub designed to nurture creativity, research, and technological advancements among engineering students. It provides a collaborative space where students can experiment, prototype, and develop cutting-edge projects with expert guidance and advanced resources.

**SANCTION OF AICTE-IDEA LAB PROPOSAL
BY AICTE, NEW DELHI**

**WORTH Rs.
90 Lakhs**

ULTRA MODERN LABORATORIES & WORKSHOP



Aerodynamics Lab



Aero-Thermodynamics Lab



Chemistry Lab



Mechatronics Lab



Electronics Devices and Circuits Lab



Cell and Molecular Biology Lab



Geotechnical Lab



Microbiology Lab



Workshop



Computer Center Lab



Electrical Engineering Workshop Lab



Automation in production and CNC Lab

GUEST LECTURE



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



**Expert Dr. Rakesh Kumar
discussing the importance of BT cotton**



**Expert explaining about Java script.
Expert Mr.Vimal Bhaktawarti Delivering
Lecture.**



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



**Expert Lecture on
Industrial Automation**



**Expert Dr. H. N. Bhargaw, Chief Scientist at
CSIR, Bhopal delivering the lecture**



**Lecture delivered by Mr. Anup Kantode,
Sr. Software Developer at Valethi Technologies,**



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



**Expert Delivering the Lecture about IT
Technologies used in Industry**

INDUSTRIAL VISIT



Industrial Visit at Softsense Technoserve Pvt. Ltd, Nagpur by Department of Computer Science & Engineering



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



IT Technologies used in Industry



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



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



Industrial Visit at Mahindra & Mahindra, Hingna, Nagpur



Dinshaw's Dairy Food and Private LTD., Butibori, Nagpur



Industrial Visit at Pragmatyc ,Nagpur



Industrial visit at Clic2Cloud, Nagpur

**AICTE EDUSKILLS VIRTUAL INTERNSHIP DOMAIN COMPLETION
STATUS OF TGPCET STUDENTS**

Sr. No	Name of Domain	Domain completed	Cohort
1	Altair Conceptual Cae Design And Simulation Virtual Internship	2	Cohort-9
2	Altair Data Science Master Virtual Internship	14	Cohort-9
3	Alteryx Data Analytics Process Automation Virtual Internship	19	Cohort-9
4	Aws Cloud Virtual Internship	33	Cohort-9
5	Aws Data Engineering Virtual Internship	30	Cohort-9
6	Bentley Structural Analysis With Staad. Pro Virtual Internship	10	Cohort-9
7	Bentley Water Resource Management Virtual Internship	4	Cohort-9
8	Celonis Business Analyst Virtual Internship	1	Cohort-9
9	Fortinet Network Security Associate Virtual Internship	9	Cohort-9
10	Google Ai-Ml Virtual Internship	54	Cohort-9
11	Google Android Developer Virtual Internship	39	Cohort-9
12	Google Cloud Generative-Ai Virtual Internship	79	Cohort-9
13	Microchip Embedded System Developer Virtual Internship	22	Cohort-9
14	Palo Alto cyber security Virtual Internship	17	Cohort-9
15	Zscaler Networking Virtual Internship	2	Cohort-9
16	Zscaler Zero Trust Cloud Security Virtual Internship	2	Cohort-9
17	Altair Conceptual Cae Design And Simulation Virtual Internship	6	Cohort-10
18	Altair Data Science Master Virtual Internship	10	Cohort-10
19	Alteryx Data Analytics Process Automation Virtual Internship	11	Cohort-10
20	ANSYS Electromagnetic Analysis Virtual Internship	6	Cohort-10

Sr. No	Name of Domain	Domain completed	Cohort
21	ANSYS Fluids Dynamics Virtual Internship	1	Cohort-10
22	ANSYS Structural Analysis Virtual Internship	5	Cohort-10
23	AWS Cloud Virtual Internship	2	Cohort-10
24	AWS Data Engineering Virtual Internship	1	Cohort-10
25	Bentley Structural Analysis With Staad. Pro Virtual Internship	4	Cohort-10
26	Bentley Water Resource Management Virtual Internship	3	Cohort-10
27	Celonis Business Analyst Virtual Internship	1	Cohort-10
28	Employability Skill Job Ready Virtual Internship	2	Cohort-10
29	Ethical Hacking Virtual Internship	10	Cohort-10
30	Fortinet Network Security Associate Virtual Internship	2	Cohort-10
31	Google Ai-MI Virtual Internship	45	Cohort-10
32	Google Android Developer Virtual Internship	36	Cohort-10
33	Google Cloud Generative-Ai Virtual Internship	9	Cohort-10
34	Industrial Automation Virtual Internship	3	Cohort-10
35	Java Full Stack Developer Virtual Internship	24	Cohort-10
36	Juniper Mist-Ai Virtual Internship	10	Cohort-10
37	Microchip Embedded System Developer Virtual Internship	17	Cohort-10
38	Midas Simulation Of Geotechnical Analysis Virtual Internship	16	Cohort-10
39	Palo Alto Cybersecurity Virtual Internship	15	Cohort-10
40	Pyhton Fullstack Developer Virtual Internship	16	Cohort-10
41	Uipath Rpa Developer Virtual Internship	2	Cohort-10
42	Web Full Stack Developer Virtual Internship	2	Cohort-10
43	Zscaler Zero Trust Cloud Security Virtual Internship	2	Cohort-10
	Total	598	

FACULTY NPTEL STARS

NPTEL DISCIPLINE STARS



Prof. Mohitsingh Katoch

NPTEL DOMAIN SCHOLAR



Prof. Mohitsingh Katoch
Domain "Environment Engg."



Prof. Radharaman Shaha
Domain "Advance Faculty"



Prof. Chetan Jambhulkar
Domain "Advance Faculty"

NPTEL STARS
ELITE + SILVER



Prof. Suraj Mahajan
(NBA Accreditation and Teaching and learning in Engineering (NATE))



Dr. Mamta Takarkhede
(Outcome Based Pedagogic Principles For Effective Teaching)



Prof. Rohini Pochhi
(NBA Accreditation and Teaching and learning in Engineering (NATE))



Prof. Anup Gade
(Teaching And Learning in Engineering (TALE))



Prof. Abhimanyu Dutonde
(Introduction to Internet of Things)

STUDENT NPTEL STARS

NPTEL STARS
ELITE + SILVER



Mr. Sachin Tagalpallewar
M.Tech - MED



Ms. Neha Meshram
MBA



Mr. Shubham Jadhav
M.Tech - MED



Ms. Sakshi Raut
MBA



Mr. Amit Kondbattulwar
MBA



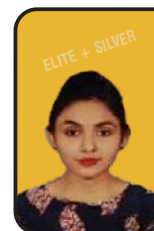
Ms. Rashmi Puri
MBA



Ms. Shweta Bondre
M.Tech - IPS



Mr. Ranjit Singh
M.Tech - IPS



Ms. Urvashi Kamble
MBA



Mr. Ganesh Dethe
B.Tech - AE

ENTREPRENEURSHIP DEVELOPMENT CELL (EDC)

Entrepreneurship Development Cell strives to inspire students to create new and innovative business ventures to set global market and standards. Entrepreneurship Centre provides mentoring and regular guidance to the students from industry experts and successful entrepreneurs from various areas of business.



EDC Cell of TGPCET Signing MoU with Maharashtra Centre for Entrepreneurship Development, Hingna, (MCED) Nagpur.



Hon'ble Mr. Sandip Agrawal, Managing Director, Sakshi ChemSciences Pvt Ltd, Nagpur delivered guest lecture on "Entrepreneurship and Start-up Aspects"

ACTIVITIES UNDER INDUSTRY INSTITUTE PARTNERSHIP CELL (IIPC)



Courageous 'Veers' Mr.Vivek R.Bhagat Ex CRPF felicitated by sampling



Prof. Arvind Totey and 1st Year students preparing Tree Guards

UNNAT BHARAT ABHIYAN (UBA)

- ❖ Unnat Bharat Abhiyan (UBA) is a special programme launched by the Ministry of Human Resource and Development (MHRD).
- ❖ TGPCET is one of the participating institute in Unnat Bharat Abhiyan (UBA) with an aim to provide skill sets training to the rural people.
- ❖ Institute focuses on Human Development, Economic Development, Education, Culture, Skills, Entrepreneurship etc. under UBA.

Events organized under Unnat Bharat Abhiyan (UBA)



Selfie Point (Mera Pehla Vote Desh Ke Liye)



The Student Blood Donation Camp is organized on the occasion of Tulsiramji Gaiwad Patil Foundation Day



Panch Pran Pledge on the occasion, "Meri Maati Mera Desh" campaign



Students taking pledge in Mechanical Engg. Dept.



Students taking pledge in Information Technology Department



Students taking pledge in Civil Engg. Dept.



Dr. Pragati Patil Checking health during camp



Students checking health camp



Mob of Students listening importance of not using tabacco

NATIONAL SERVICE SCHEME (NSS)

The National Service Scheme was started to establish a meaningful linkage between the campus and the community. Therefore, student youth, teachers and the community are considered the three basic components of the National Service Scheme. The overall aim of National Service Scheme is to give an extended dimension to the higher education system and orient the student youth to community service while they are studying in educational institution. Therefore it is necessary to arouse the social conscience of the students, and to provide them an opportunity to work with the people in the villages and slums.

National Service Scheme (NSS) Unit Events:



Students taking pledge in Mechanical Engg. Dept.



Students taking pledge in Information Technology Department



Students taking pledge in Civil Engg. Dept.



Offering Token of Love by G-Memento to Mr. Nitin Doifode.



Prayer Song by Student by staff



Dr. Pragati Patil Checking health during camp



Students checking health camp

NOSTALGIA: ALUMNI MEET & HOLI MILAN



SPORTS ACHIEVEMENTS



Football Team clinched the 1st prize worth Rs. 11,000 & Volleyball Team secured the Top spot with a prize of Rs. 8,000 along with the trophy. **Aarambh Sports Meet 2024** organize by Shri. sant Gajanan Maharaj College of Engineering, Shegaon.



Women's Volleyball Team secured a phenomenal third place at the recent open volleyball tournament held in Umred! They have been awarded a cash prize of Rs. 5,000



Football Team clinched the 1st prize worth Rs. 12,000 along with the prestigious trophy. **ZENITH'24** Sports Meet organize by Shri. Guru Gobind Singhji Institute of Engineering and Technology, Nanded.



Cricket (Men) team won ₹11,000 and a trophy at UDAAN 25.0 Intercollegiate Sports Meet 2024-25, Priyadarshini College, Nagpur.



Mr. Prasanna Pojgey (7th-sem ECE) won Bronze in the 75kg category at RTMNU Karate-Kumite 2023-25



Students selected for the U-19 Vidarbha Cricket Association Team in the BCCI-sponsored Vinoo Mankad Trophy.



MS. PRIYANKA BAGEKAR
Banch: First Year, MCA
Selected in RTMNU, Nagpur Volleyball (Women) Team Session 2024-25



MR. PRASANNA POJGEY
Branch: Final Year, Electronics & Comm. Engg.
Bronze Medal in RTMNU, Nagpur
Intercollegiate Karate Session 2024-25



MR. ATHARV POTUTWAR
Branch: First Year, Computer Science & Engineering
Selected in RTMNU, Nagpur Selected in Cricket (Men) Team Session 2024-25



Badminton Team



Chess Players



Participated in Nanded Engineering Cup-2019



Table Tennis Team



Carrom Team



Foot Ball Team

GLIMPSES OF ANNUAL SOCIAL GATHERING **UTKARSSH -2K25**



SHIVAJI MAHARAJ JAYANTI



Artificial Intelligence in Edge Computing

ABSTRACT

Edge computing, where data processing is done closer to the data source rather than a centralized cloud server, is becoming increasingly prevalent. By combining edge computing with Artificial Intelligence (AI), we can enable real-time data processing and decision-making at the edge of networks. This article examines the challenges and opportunities associated with deploying AI models on edge devices such as IoT sensors, autonomous vehicles, and mobile devices. We explore the trade-offs between model complexity, computation power, and real-time performance, as well as the role of specialized hardware accelerators like TPUs and FPGAs in enhancing edge AI capabilities.

KEYWORDS : Edge Computing, Artificial Intelligence, IoT, Real-Time Processing, Autonomous Systems, Hardware Accelerators, Edge AI.

Ms.Khushi Ganvir (IT Dept)

Blockchain Beyond Cryptocurrencies: Real-World Applications

ABSTRACT

Blockchain technology, often associated with cryptocurrencies, has far-reaching applications in industries beyond digital currencies. Its decentralized, immutable nature can enhance transparency, traceability, and security in various sectors, such as supply chain management, healthcare, and voting systems. This article explores the broader impact of blockchain, including its role in ensuring the integrity of data, improving logistical operations, and facilitating decentralized finance (DeFi). Challenges related to scalability, energy consumption, and regulatory compliance are also examined, along with potential solutions to overcome these barriers.

KEYWORDS : Blockchain, Cryptocurrencies, Supply Chain, Healthcare, Voting Systems, Decentralized Finance, Scalability, Regulatory Compliance.

Ms.Bharti Nagpure(IT Dept)

Advancements in Smart Materials for Civil Engineering Applications

ABSTRACT

Smart materials, which can respond to environmental stimuli (e.g., temperature, moisture, stress), have revolutionized the field of civil engineering. These materials have the potential to enhance the durability, safety, and efficiency of structures. This article explores the latest advancements in smart materials, including self-healing concrete, shape memory alloys, and piezoelectric materials. It discusses their applications in infrastructure, such as bridges, buildings, and roads, highlighting their ability to monitor structural health in real time and self-repair cracks or deformities. Additionally, the challenges of integrating these materials into existing construction practices are examined, along with the environmental benefits of using smart materials.

KEYWORDS : Smart Materials, Self-Healing Concrete, Shape Memory Alloys, Piezoelectric Materials, Structural Health Monitoring, Sustainable Construction, Durability. Ms.Bharti Nagpure(IT Dept)

Ms.Vaishnavi Kamde (CE Dept)

Advancements in Additive Manufacturing (3D Printing) for Mechanical Engineering

ABSTRACT

Additive manufacturing (AM), commonly known as 3D printing, has revolutionized the mechanical engineering field by enabling rapid prototyping, customized design, and complex geometries that were previously impossible with traditional manufacturing methods. This article explores the latest advancements in AM technologies, including the development of new materials (metal, polymers, ceramics), hybrid manufacturing systems, and multi-material 3D printing. The article discusses the applications of AM in mechanical engineering, such as aerospace components, medical implants, and automotive parts. It also addresses the challenges of material properties, precision, and scalability, as well as the potential future impact of AM on global supply chains.

KEYWORDS : Additive Manufacturing, 3D Printing, Rapid Prototyping, Complex Geometries, Hybrid Manufacturing, Metal 3D Printing, Aerospace, Automotive, Material Properties.

Mr.Kaushik

Bagade(ME Dept)

Technical Article: Explainable AI for Trustworthy Autonomous Systems: Advancements in Real-time Interpretability and Explainable Decision-Making

ABSTRACT

The increasing deployment of autonomous systems, from self-driving vehicles to intelligent medical diagnostics, necessitates a profound shift from opaque "black box" AI models to transparent and explainable systems. Explainable Artificial Intelligence (XAI) is paramount for building trust, ensuring regulatory compliance, and enabling robust human-AI collaboration in safety-critical applications. This article provides an in-depth review of the latest advancements in XAI techniques tailored for autonomous systems, particularly focusing on methodologies that offer real-time interpretability and comprehensive explanations for complex decision-making processes. We examine the evolution of post-hoc explanation methods, intrinsically interpretable models, and the emerging field of explainable reinforcement learning. Furthermore, we discuss the critical challenges, including maintaining computational efficiency for real-time inference, addressing the trade-off between interpretability and model accuracy, and establishing standardized evaluation metrics for XAI in dynamic autonomous environments. The article concludes by outlining future research directions towards the development of truly trustworthy and auditable autonomous systems.

KEYWORDS : Explainable AI (XAI), Autonomous Systems, Interpretability, Transparency, Real-time Decision-Making, Human-AI Collaboration, Trustworthy AI, Post-hoc Explanations, Intrinsically Interpretable Models, Explainable Reinforcement Learning, AI Ethics, Regulatory Compliance.

KEYWORDS : Product design, Mould tool design, Injection moulding process, Mold flow analysis, Solid works,AutoCAD

Mr.Kaushik Bagade(ME Dept)

A Youngster's Guide to Achieving Goals

Achieving a goal isn't just about wishing for something; it's about turning that wish into a realistic plan and following through with consistent effort, much like an explorer charts a course to a new land. For youngsters, this journey begins by making your goal super clear and specific. Instead of a vague idea like "I want to be good at science," narrow it down to something you can actually measure and work towards, such as "I want to get an 'A' on my next science test by studying for 30 minutes every evening." Once you have your clear target, break that big goal down into smaller, manageable steps. If your aim is to read a whole book, your first small step might be to read one chapter a day. These mini-steps are like building blocks; each one you complete brings you closer to your grand achievement and builds your confidence. Remember to stay focused and keep trying, even when things get tough. There will be days when you feel like giving up, or when a task seems too hard, but that's when perseverance kicks in. Ask for help if you need it, learn from any mistakes, and keep your eyes on the prize. And don't forget to celebrate your progress along the way! Every small victory, like finishing a chapter or getting a good score on a pop quiz, is a reason to high-five yourself and recharge for the next part of your journey. By planning smart, working hard, and celebrating your successes, you'll discover that you have the power to achieve anything you set your mind to, setting yourself up for a lifetime of reaching exciting new destinations.

Ms Anushka Kamble (CSE Dept)

India's journey of Development

India's journey of development is a compelling narrative of growth, innovation, and ongoing transformation. As of mid-2025, the nation is widely recognized as the fastest-growing major economy globally, a position it's projected to maintain for the next few years. This momentum is rooted in several key pillars, while also navigating significant challenges.

Economic Growth and Sectoral Shifts

India's economic landscape has seen remarkable shifts. The International Monetary Fund (IMF) projects India's economy to grow by over 6% in both 2025 and 2026, significantly outpacing global averages. This growth is largely driven by robust private consumption, particularly in rural areas, and strategic government initiatives. While historically reliant on agriculture, India has transitioned towards a service-led economy, with sectors like information technology (IT), finance, and healthcare contributing over 55% to the GDP. The manufacturing sector is also gaining traction, boosted by initiatives like 'Make in India' and Production-Linked Incentive (PLI) schemes, aiming to establish the country as a global hub for electronics and semiconductor production. Furthermore, the fintech sector is experiencing a revolution, driven by the widespread adoption of digital payments via platforms like UPI, which has seen an exponential surge in transaction volumes.

Technological Advancements and Digital Infrastructure

Technology is a core accelerator of India's development. The country has built a robust digital public infrastructure, which has democratized access to financial services and enabled seamless digital transactions across the population. India's startup ecosystem is booming, pushing boundaries in Artificial Intelligence (AI) and Machine Learning (ML), with applications spanning various industries. Significant strides are also being made in advanced technologies such as quantum computing, blockchain, and the Internet of Things (IoT). In space exploration, the Indian Space Research Organisation (ISRO) continues to make global headlines with successful missions like Chandrayaan, demonstrating India's growing prowess in advanced scientific and technological fields. The focus on developing indigenous capabilities, from defense systems to advanced telecommunications, is further cementing India's position on the global technology map.

Mr. Atharv Chitneece (ECE Dept)

Technical Article: Advanced Wide Bandgap Semiconductor Devices for Ultra-Efficient Power Conversion in Next-Generation Grids and Electric Vehicles

ABSTRACT

The increasing demand for higher power density, efficiency, and reliability in electrical systems, driven by the proliferation of renewable energy sources, electric vehicles (EVs), and advanced industrial applications, is pushing the boundaries of conventional silicon-based power electronics. This article delves into the transformative role of Wide Bandgap (WBG) semiconductor devices, specifically Silicon Carbide (SiC) and Gallium Nitride (GaN), in enabling ultra-efficient power conversion. We examine the latest advancements in device fabrication, packaging technologies, and advanced control strategies that leverage the superior material properties of SiC and GaN, such as higher breakdown voltage, faster switching speeds, and lower on-state resistance. The article highlights their application in high-frequency DC-DC converters, grid-tied inverters for solar and wind energy integration, and high-power density chargers for EVs, including both wired and emerging wireless power transfer systems. Furthermore, we discuss the challenges associated with the widespread adoption of WBG devices, including cost reduction, reliability testing, and the need for sophisticated gate drivers and thermal management solutions. Future research directions, particularly in material synthesis, device integration, and the development of intelligent control algorithms for optimal WBG device performance, are also explored.

KEYWORDS : Wide Bandgap (WBG) Semiconductors, Silicon Carbide (SiC), Gallium Nitride (GaN), Power Electronics, Energy Conversion, Renewable Energy Integration, Electric Vehicles (EVs), High-Frequency Switching, Power Density, Grid-Tied Inverters, DC-DC Converters, Wireless Power Transfer, Thermal Management, Device Reliability.

Mr. Harshal Ghavghave (EE Dept)

Technical Article: Bio-Convergence and Advanced Manufacturing: Engineering Next-Generation Therapeutics and Living Materials

ABSTRACT

Bio-convergence, the seamless integration of biology with engineering, computational science, and advanced manufacturing principles, is rapidly reshaping the landscape of biotechnology. This article explores the cutting-edge advancements at the nexus of these disciplines, focusing on their profound impact on the development of next-generation therapeutics and the creation of novel living materials. We delve into how principles of bio-convergence are enabling precision medicine through technologies like organ-on-a-chip systems for accelerated drug discovery and personalized diagnostics, engineered cellular therapies (e.g., advanced CAR-T designs, iPSC-derived tissues), and synthetic biological circuits for smart drug delivery. Furthermore, the article highlights the emergence of "living materials"—engineered biological systems with inherent self-assembly, self-repair, and dynamic response capabilities—created through additive manufacturing (bioprinting), microbial fermentation, and directed evolution. We discuss the computational pipelines, including AI-driven design and optimization algorithms, that are critical for navigating the vast design space of biological systems and facilitating their fabrication. Challenges such as regulatory hurdles, scalability of biomanufacturing processes, and the ethical implications of engineered biological systems are also addressed. The future outlook emphasizes the potential of fully autonomous bio-manufacturing platforms and intelligent living materials to revolutionize healthcare, sustainable production, and environmental solutions.

KEYWORDS : Bio-convergence, Advanced Biomanufacturing, Living Materials, Organ-on-a-Chip, Engineered Cell Therapies, Synthetic Biology, Bioprinting, AI in Biotechnology, Precision Medicine, Drug Discovery, Regenerative Medicine, Biofabrication, Directed Evolution, Systems Biology.

Ms. Neha Bhandarkar (BT Dept)

Review on Design of a HEV Powertrain with Different Powertrain Components and Configurations for Performance Optimization

ABSTRACT

The depletion of oil resources and the rising of energy demand have driven automotive manufacturers to explore new environment friendly vehicle options, such as electric vehicles (EVs) and hybrid electric vehicles (HEVs).

The selection of an appropriate hybrid configuration is critical as it directly impacts the vehicle's performance and fuel efficiency under different driving conditions. This paper focuses on conducting a comprehensive parametric analysis of a Hybrid Electric Vehicle (HEV). The primary goal of this study is to develop a HEV powertrain through initial parameter matching and component sizing, followed by optimization to meet specific design constraints. This process involved analyzing and calculating the power specifications of various components based on vehicle dynamics. After the initial parameterization, optimization techniques were employed to achieve the design objectives.

KEYWORDS : Hybrid electric vehicle, Vehicle performance, Component sizing, Optimization.

Shaif Ali Saiyad, EE

Your Unique Human Superpowers: Thriving in a World of Smart Machines

Remember when we were kids, and movies showed robots doing everything? Well, the future is here, and while we don't have robot maids (yet!), artificial intelligence (AI) is already changing the way we learn, work, and even play. It's helping us analyze huge amounts of information, automate tedious tasks, and even create art.

But here's the exciting secret for us college students: as machines get smarter, our human abilities become even more valuable. Your time in college isn't just about mastering textbooks and coding languages; it's about sharpening the unique superpowers that AI can't quite replicate. These are the skills that will make you truly irreplaceable in any future career.

Mr.Bishwajeet Mallick(DS Dept)

कदम मलिकर चलना होगा
 बड़े चलो कमिंजलि दूर नहीं,
 थके नहीं, रुके नहीं,
 अंधियारे को चीर के रखना,
 सूरज बनकर चमकना होगा।
 कदम मलिकर चलना होगा।
 बाधाएँ आएँ, वपिदाएँ घेरे,
 हम न झुकेंगे, हम न रुकेंगे,
 संघर्षों से घबराए जो,
 वो इतहास नहीं लखि पाए जो।
 कदम मलिकर चलना होगा।
 पथ कंटकयुक्त भले ही हो,
 लेकनि पीछे हटना मना है,
 संकल्प हमारा दृढ़ रहेगा,
 जयभारत का नारा गुंजेगा।
 कदम मलिकर चलना होगा।
 यदलिक्ष्य बड़ा है, पथ कठनि है,
 तो क्यों घबराएँ, क्यों रुकें,
 हम बढ़ेंगे, हम लड़ेंगे,
 जब तक साँसें चलेंगी।
 कदम मलिकर चलना होगा।

Sakshi Wankhede (MCA Dept)

समय का सबसे कहता ह!!

समय का सकरी कहना है जीवन चलते
 रहना है इसकी मए बरबाद करी सहा कान
 की बात करते।

समय के समय चल्ला फरि आकर
 कामकाज में क्यों दालना हर-पल सबसे
 कहती है जीन बाता पानी है सकना मौत
 की नशिानी है।

जीवनाची शर्यत ॥

जीवनाची एक शर्यत,

मात्र नेहमी लक्षात ठेवा,

हरवल्यावर तुम्ही वाळून घेतलेले

प्रत्येक पाऊल,

ते एक अनुभव आहे.

नक्कीच हारण्याची भिती आहे.

पण तुम्ही जतिके सामर्थ्याने लढालात,

त्याचे महत्त्व आहे

जीवनात सुख-दुःख आहेत, पण आपल्या

चेहऱ्यावर आनंदाची उजळणी आहे.

ती सांगते की तुम्ही जकिलात. है जीवन

आहे, एकदाच मळिते.

त्याचा आनंद घेण्यासाठी अजून कती
 म्हणजे कती अवकाश आहे. तर आव्हान

घेऊन चला, आपल्या स्वप्नांना साकार

करण्यासाठी

Ms.Sakshi Totawar (CSE Dept)

॥ बेटियां खूबसूरती की पहचान है ॥

युवक असावा असा चेहयावर तेज आहे

देहामध्ये शक्ती आहे.

मनामध्ये उत्साह आहे.

बुद्धिमध्ये वविक आहे.

हृदयामध्ये करुणा आहे.

मातृभूमीवर प्रेम आहे

इंद्रियांवर संयम आहे.

मन ज्याच स्मृति आहे

आत्मवशिवास दृढ आहे.

इच्छाशक्ती प्रबळ आहे.

धाडसाचे बळ आहे

सहिसारखा नरिभय आहे

ध्येय ज्याचे उच्च आहे.

सत्य ज्याचा इश्वर आहे.

व्यसनांपासून मुक्त आहे

जीवनामध्ये शमित अहं

प्रेमळ ज्याचा सूर आहे.

मानवता हेच कुळ आहे.

दीन-दुबळ्यांचा मतिर आहे.

सेवेसाठी तत्पर आहे.

देवावरती भक्ती आहे.

जीवनामध्ये नीती आहे.

चरतिर्य ज्याचे शुद्ध आहे.

तोच आदर्श युवक आहे.

Mr.Amit Dhodare(CE Dept)

॥ जीवनाची शर्यत ॥

माझे बाबा बापलेकीची परमेश्वराने

हघिडवलेली भेट आहे

माझे बाबा खरोखरच

हरि पेक्षा हरिरेट आहे

मुलीला जविपाड कसे

जपायचं तुम्हांला समजलं पण,

मला मात्र असे

कधीच नाही उमजलं दृ

मला कशाची राहली

नाही कधीच आस

वारंवार हट्ट करून

दलि फारच मी त्रास

बाबांनी माझ्या आयुष्यात

भरपुर असे काही केले

आणतियांच्याथ समवेत

आयुष्यच उलघडत गेले.

झालेल्या चुकां बदल

मला क्षमा हिसावी

तरिस्काराला मात्र हृदयात

कुठेच जागा नसावी.

Ms.Pragati Sonewane(EE Dept)

॥ अब मान ली मैं ठान ली ॥

खुद की ताकत पहचान ली दूको नहीं झुको
नहीं आगे बढ़ना है ये जान हो।
ये देखकर मुश्किलों कमी सकना नहीं धमना
नहीं जो हैं पड़े पीछे भी,
उनकी से चलना है साथ भी।
संधर्व ती ही रास्ता उरावो बना कुछ भी नहीं
जी करना है कर अभी एक ही मल्लि है
जदिगी। में सबके साथ चलता दू
Ms.Lakshmi Badage(MBA Dept)

A JOURNEY OF MINDS

In halls of knowledge, we gather here,
when dreams and hopes, our vision clear
Through nights of study days of quest,
We strive to give our very best
Books and lectures, labs and more,
Each challenge met,
we explore Friendships
forged in shared pursuit, in
this journey, we find our root
Professors guide, their wisdom share,
With patience, skill, and endless care
They light the path we choose to tread,
And spark the fire within our head..
From dawn to dusk, our minds expand,
We learn, we grow, we take a stand In
every failure, lesson's found,
in triumphs, we feel unbound.
Ms.Neha Raut (CSE Dept)

TRUE FRIENDS

A friend is like a star that
twinkles and glows
Or maybe like an ocean
that gently flows
A friend is like gold that you
should treasure
And take care of forever and ever
A friend is like an angel that
is there to guide you
A friend is someone you can
trust out of a few
A friend is more than one in
a million They are one in ca-zillion
And you, my friend, are very special
and so it is official.
Ms.Lipakshi Gaikwad (IT Dept)

THE SILENT STRUGGLE

This poem addresses the internal
struggles ESL students often face,
feeling silenced by
language barriers and their journey
to find their voice. In silent thoughts,
their stories hide, Words
within, they can't confide
Eyes speak volumes, lips sealed tight.
In the struggle for linguistic light.
Each day a battle, quiet and long,
in their hearts, a silent song Yearning
to speak, to be heard,
In each silent, unspoken word
With time and patience, walls break
down, In their voice, they finally drown.
Silent struggles turn to speech,
In new words, their goals they reach,
Ms.Arohi Ingale (EE Dept)

STUDENT'S CREATIVITY



Sakshi Khantale (MCA Dept)



Apeksha Gadpale (CSE Dept)



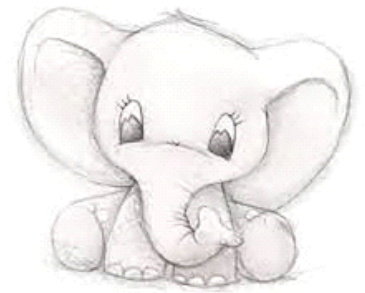
Siya Turkar (MCA Dept)



Ms.Divya Shirode (ECS Dept)



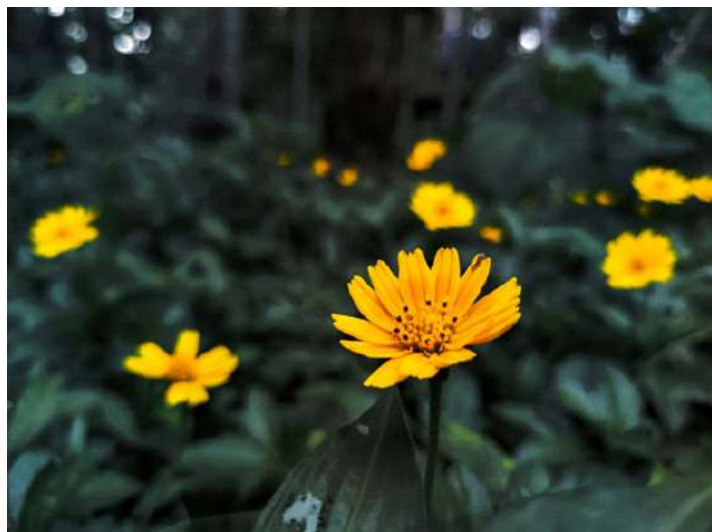
Mr.Nitesh Kharole(AE Dept)



Mr.Atharv Chitneece (ECE Dept)



Rupesh Tijare (CSE- DS Dept)



Sneha Bagde (CSE- DS Dept)



Ms. Divya Shirade (BT Dept)



Ms. Sakshi Taware (CSE Dept)



Ms. Anushka Kamble (AE Dept)



Mr. Amit Dhodare (CE Dept)



SARASWATI IDOL

The **Saraswati** idol is formed at the entrance of central library of the college by using some mechanical components from scrap market. The five major game pedagogical approaches like Constructivist, Collaborative, Integrative, Reflective and Inquiry Based Learning are being incorporate while forming the Saraswati Idol. The mechanical components like gears, leaf spring, helical compression spring, piston, automobile spare parts etc. all these components are so arranged that a beautiful mech Ganesh is formed.



STATUE OF LATE. SHRI TULSIRAMJI GAIKWAD-PATIL

The **statue of Late. Shri Tulsiramji Gaikwad-Patil** as an inspirational source has been unveiled by Hon'ble Swami Jyankrutyanandaji, Santosh Maharaji, Ramkrishna Math, Nagpur on the auspicious occasion of his birth anniversary.



SAMVIDHAN GATE

The **Samvidhan Gate** is constructed at the Institute campus and inaugurated on 26th January 2022 by the hands of Hon'ble Chief Guest Lt. Col. Aniruddha Deshpande, highlighting the significance of the Indian constitution and to spread thoughts and ideas of BR Ambedkar. Under activity based learning this Samvidhan Gate has been constructed using bamboo and mild steel angle.



SELFIE POINT

Tulsiramji Gaikwad-Patil College of Engineering and Technology Celebrated 108th Birth Anniversary of Late Shri Tulsiramji Gaikwad-Patil. on this occasion the Guest were Swami Gyangamyand ji Maharaj from Ramkrushna Math Nagpur, Shri Prabhuji Deshpande President, Lok samaj Sanstha & Dr. Prashant Sawarkar, Asso. Professor AIIMS Nagpur. Later the event was followed by the inauguration of Selfie point (**I♥TGPCET**).



SOCIAL RESPONSIBILITY:

To foster a social responsibility, the institute has decided to create engineers having social, ethical and moral values. Social responsibility among the nearby villages is undertaken by organizing blood donation camp, tree plantation, save girl rally, blanket distribution etc.



SOLAR SYSTEM:

The College has installed solar panels on the top of the building. This system produces total energy of 167258 KWH. It has substantially reduced the electricity consumption. This system provides round the clock energy supply and has considerably lessened dependence on supply of electricity.



WATER HARVESTING AND GREEN INITIATIVES:

The institute has a rain water harvesting structure which collects the roof top rain water and discharges it to ground. The Institution also has a sewage treatment plant (STP) to recycle the waste water. The lawns, saplings and trees in the campus are watered after recycling of waste water. The green vibes are conducive to teaching and learning process. The endeavours are made in respect of global warming, soil preservation, reducing air pollution, getting more oxygen and good rain by planting trees at the campus premises.

PROGRAM OUTCOMES

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



SPECIAL FEATURES

- ✓ Accredited by NAAC with "A+" Grade, 3.32 CGPA
- ✓ Founded and Managed by Academicians
- ✓ Excellent Academic Result & Healthy Academic Environment
- ✓ 360° Campus Recruitment
- ✓ Finishing School Grooming the students in every sphere of life
- ✓ Scholarship for merit holders
- ✓ Welfare Scheme for military / Defence / Poor / Needy students Tuition fee waiver scheme (TFWS)
- ✓ 100 MBPS leased line Wi-fi campus Well equipped computer laboratories
- ✓ Forum for GRE / TOEFL / GATE / IES Competitive Exams
- ✓ Regular Field and Industry visits
- ✓ International and National Seminars
- ✓ Expert Lecture of Eminent speaker
- ✓ Excellent student-teacher ratio
- ✓ Virtual learning (Moodle, Google class room)
- ✓ Hostels for Boys and Girls
- ✓ Wide & Lush Green Campus
- ✓ Indoor / Outdoor sports
- ✓ Digital Library & Book Bank Facilities
- ✓ Bus facility from all parts of Nagpur
- ✓ Cafeteria for healthy and delicious food
- ✓ Amenities like Dispensary, Store, Photocopy etc. in the campus
- ✓ Girls & Boy's common rooms
- ✓ Yoga room

 **Principal**
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 **Campus:-** NH-7, Mohgaon, Wardha Road, Nagpur - 441 108 (Maharashtra)

 **GAIKWAD-PATIL**
GROUP OF INSTITUTIONS

TESTIMONIALS OF DIGNITARIES



Hon'ble Padmashri Dr. Vijay Bhatkar
Father of Indian Super Computer

"The college has a far-reaching goal and is emerging as a leading engineering college of Vidarbha. I was particularly impressed by the discipline of the institute and its academic and research aspiration."



Hon'ble Dr. B. L. Mungekar
Former MP & Member Planning Commission of India

"The institute has a mission and commitment to fulfill it. The future of the campus is extremely bright."



Hon'ble Dr. Vilas Sapkal
Former Vice Chancellor, RTM Nagpur, University

"The management is visionary and professional in nature. The facilities are up to the mark. The discipline is very good and faculties are dedicated."



Hon'ble Shri. Nitinji Gadkari
Former Cabinet Minister
Road Transport and Highways Shipping, Govt. of India

"Good quality of education and good dedicated management."



Hon'ble Shri. Raju Shetty
MP, Farmers' Leader

"ये परिसर जरा सजावट दिखार्हे देवा हे। सो जकेना तो सिलारो मे दिखार्हे देवा।"

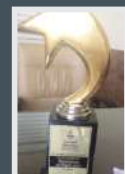


Hon'ble Dr. Satish Wate
Former Director, National Environment Engineering Research Institute (NEERI), Nagpur

"Outgoing Library facility well designed to suit students, faculty and guests of all age group. It resembles facilities available at most recognized institutions. I am sure students will spend more time here to grow knowledge."



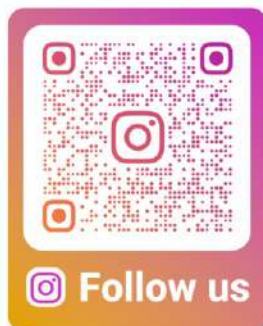
TGPCET
ranked 192nd position
among 200 Engg.
Institute
in the Country



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INSTITUTE
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SOCIAL MEDIA COVERAGE



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B.PHARM | D.PHARM | BAMS | B.SC NURSING | GNM | PHYSIOTHERAPY | PH.D