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TULSIRAMJI GAIKWAD-PATIL
College of Engineering & Technology

— An Autonomous Institute —

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BYTE CODE

VOLUME 3 | ISSUE 1

ACADEMIC SESSION
2025-2026



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From the **Chairman's Desk**

“Education is the passport to the future, for tomorrow belongs to those who prepare for it today.”

Dr. Mohan Gaikwad-Patil, with more than 35 years of experience in the education system to his credit, established the Gaikwad-Patil Group of Institutions in Nagpur to cater to the quality education needs of the youth in Vidarbha. His early experience teaching in an engineering college made him acutely aware of the dissonance between engineering education in the country and the requirements of the industry. He therefore began with the dream of starting an engineering college that equips students with knowledge, skills, and attitudes relevant to the industry. That dream has manifested today in the form of an educational group well known in the region for its constant striving to impart quality and industry-relevant education to the students by teaching courses like B.Tech, M.Tech, Architecture, Polytechnic, MBA, MCA, Pharmacy, BAMS, Physiotherapy and Nursing. Hardly in his early forties, Dr. Mohan Gaikwad-Patil is the young and dynamic face of the group. His contagious enthusiasm and unflagging drive are truly inspiring.



DR. MOHAN GAIKWAD-PATIL

Chairman, Gaikwad-Patil Group



Principal's Desk

Dr. P. L. Naktode
Principal TGPCET

"Nurturing Innovation, Empowering Leaders - Engineering Education Redefined ."

It is my privilege to warmly welcome you to our college—an autonomous institution committed to quality education. We work on the principle of "Learn to Grow." With this inspiring thought, Vidarbha Bahu Uddeshiya Shikshan Sanstha, Nagpur laid the foundation to provide education in the field of engineering, enabling students to become skilled engineers, capable managers, and above all, responsible human beings dedicated to building a stronger, vibrant, and skilled India.

We envision TGPCET playing a significant role in shaping the careers of tomorrow's leaders and developing individuals who will make a meaningful impact on global development.

Looking at our track record, TGPCET has achieved many milestones in terms of consistently excellent academic results, successful placements, and vibrant extracurricular activities. We are continuously striving to impart quality education to our budding engineers, and this journey is becoming more glorious year after year—empowering our graduates to make their mark across the globe.

Success depends on opportunity—make the most of the resources available to you.

I wish you the very best in all your endeavors.



Vice Principal's Desk

Dr. Pragati Patil

Vice Principal

“Inspiring Excellence, Empowering Innovation through Technology and Values”

It is a matter of great pride and satisfaction to present this edition of *CODE CRUNCH*, the newsletter of the Department of Computer Science & Engineering. In an age driven by rapid technological advancement, it is essential that students not only acquire technical knowledge but also develop the ability to think critically, innovate creatively, and uphold strong ethical values.

At Tulsiramji Gaikwad Patil College of Engineering & Technology, we are committed to creating a holistic academic environment where learning is enriched through practical exposure, industry interaction, and research-oriented activities. The continuous achievements of our students and faculty in academics, technical competitions, research, placements, and co-curricular pursuits reflect the dedication and progressive vision of the institution.

This newsletter serves as a mirror of the department's vibrant academic culture and its journey towards excellence. It documents the collective efforts, initiatives, and accomplishments that contribute to shaping competent professionals and responsible citizens for the future.

I congratulate the Department of Computer Science & Engineering and the editorial team for their commendable work in bringing out this issue of *CODE CRUNCH*. I wish all our students continued success in their academic and professional endeavors. May you continue to learn with curiosity, innovate with confidence, and contribute positively to society.



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



MISSION

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



Message From Hod

Dr. Swapnili Karamore
Head of Computer Science

I'm excited to introduce "Byte Code", our department's magazine dedicated to bridging the gap between academics and industry. Through insightful guest lectures, engaging industrial visits, and inspiring alumni stories, Byte Code enriches students' learning experiences and connects theoretical concepts with real-world applications. Explore Byte Code to see how we bring industry expertise to the classroom and showcase our commitment to educational excellence. Discover our department's achievements and innovations in each issue!



COMPUTER SCIENCE DEPARTMENT

Established with B.E. CSE in the year 2007-08 with an intake of 150 and M. Tech CSE in 2011-12 with an intake of 18. Department focus on Research and training activities are based on - Advanced computational methods for modeling, analyzing, and solving complex tasks in technology and science. Fundamental computer science methods for the analysis of large and high- dimensional data sets For the modeling and design of complex software, networking and other computational systems. Exposing students to the developments in the field of computing, thereby enabling them to meet the needs of the IT industry and research organizations in India and abroad.



VISION OF THE DEPARTMENT

To become a centre of excellence for nurturing the quality Computer Science & Engineering professionals to cater the needs of industry and society.



MISSION OF THE DEPARTMENT

- To achieve academic excellence by imparting in-depth knowledge to the students through effective pedagogies and hands on experience on latest tools and technologies.
- Inculcating professional behavior, strong ethical values, innovative research capabilities and leadership abilities in graduates.

Program Education Outcome

- ❖ PEO1: Apply mathematical knowledge mathematics and logical programming to frame engineering solutions in the computing domain.
- ❖ PEO2: Analyze the real life problems and apply latest tools for developing software solutions.
- ❖ PEO3: Apply emerging technology by communicating effectively as a team.
- ❖ PEO4: Enhance the quality, security, privacy, cost utility, etiquette and ethics by their computing abilities.
- ❖ PEO5: Adapt emerging technology and advances in careers for fulfilling the societal needs to protect the environment for lifelong learning.

Program Specific Outcome

- ❖ PSO 1 - Basic Fundamental: Analyse fundamental knowledge of computer science to analyze complex problem and design effective solution.
- ❖ PSO 2 - Design and Implementation: Apply modern tool to solve engineering, societal problem and communicate effectively as team member in software project management.
- ❖ PSO 3 – Higher Studies and Entrepreneur: The ability to use modern computer technologies to create career paths for higher studies and entrepreneurship, also inculcate moral values and ethics for lifelong learn

PROGRAM OUTCOME

PO1: Engineering Knowledge: Apply knowledge of mathematics, natural science computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)

PO3: Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

PO4: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).

PO5: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6).

PO6: The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WKS and WK7)

PO7: Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

PO8: Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

PROGRAM OUTCOME

PO9: Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

PO10: Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO11: Life-Long Learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change (WK8).

Editorial Board



Prof. Shubhkirti Bodkhe

Welcome to Byte Code, the magazine that brings you the latest from our department's vibrant community of students, faculty, and alumni! As the editor, I am thrilled to present this edition, packed with stories of innovation, excellence, and achievement. From industrial visits that take our students behind the scenes of cutting-edge companies, to guest lectures that bring industry experts to our campus, we have it all. Our publications section showcases the research and ideas that are shaping the future of technology, while our alumni stories inspire us with their journeys and accomplishments. I hope you enjoy reading Byte Code as much as we enjoyed creating it.

Happy reading !!!

Chief Editor



**Mr. Yash Vijayrao
Godse
3rd Year (6th Sem)**

It gives me great pleasure to present this edition of **Byte Code**, which serves as a platform for expressing ideas, innovation, and academic excellence within our institution. In a rapidly evolving technological era, the exchange of knowledge and creative thinking plays a vital role in shaping future-ready professionals, and this magazine reflects that spirit.

This publication is the outcome of collective effort, dedication, and enthusiasm from students, faculty members, and the editorial team. I extend my sincere appreciation to everyone who contributed to this edition and hope that **Byte Code** inspires readers to explore, innovate, and continuously strive for excellence.

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Teacher Technical Articles

Artificial Intelligence in Modern Engineering Education

Artificial Intelligence (AI) has become a key driver of innovation in engineering, influencing fields such as data analytics, automation, intelligent systems, and decision-making processes. In engineering education, AI supports personalized learning, intelligent evaluation, and virtual experimentation, enabling students to better understand complex concepts through practical exposure. By integrating AI-based tools, research initiatives, and project-oriented learning into the curriculum, institutions can bridge the gap between theory and industry requirements while preparing students to adapt to emerging technologies responsibly and effectively.



Prof. Komal Naxine

Cloud Computing and Scalable Systems

Cloud computing offers flexible, scalable, and cost-effective solutions for computing, storage, and application deployment. Technologies such as virtualization, containerization, and cloud services have revolutionized modern software infrastructure. For engineering students, understanding cloud architecture promotes efficient resource utilization and system scalability. Practical knowledge of cloud platforms bridges the gap between academic learning and industry requirements.



Prof. Shweta Hedao

Teacher Technical Articles

Cyber Security in the Digital Era

With the rapid expansion of digital systems, cyber security has become a critical aspect of protecting sensitive information and digital assets. Concepts such as encryption, authentication, secure communication, and intrusion detection are essential in safeguarding networks and applications. Engineering education must emphasize cyber awareness and secure design principles. This prepares students to identify vulnerabilities and develop resilient systems.



Prof. Diksha Fhulzele

Data Science and Analytics

Data science focuses on analyzing large volumes of data to extract meaningful insights and patterns. Through techniques such as statistical analysis, data visualization, and predictive modeling, organizations can make informed decisions. In engineering education, data analytics enhances critical thinking and analytical skills. Students gain the ability to solve real-world problems using data-driven approaches.



Prof. Vaishnavi Bakhhal

Student Technical Articles

Importance of Data Science

Data science helps in analyzing large amounts of data to find useful information. It is widely used in business, healthcare, sports, and social media platforms. Students learning data science develop analytical and critical thinking abilities. These skills are essential for making data-driven decisions.



- **Mr. Om Santosh Mundhe**

Big Data and Its Uses

Big data refers to extremely large datasets that cannot be handled using traditional methods. Big data technologies help process and analyze such information efficiently. Students working with big data gain experience in handling real-world data. This knowledge is useful in analytics and research fields.



- **Mrs. Sanjana Choudhary**

Machine Learning Concepts

Machine learning is a part of AI where systems learn from data without being explicitly programmed. It is used in spam filtering, recommendation systems, and image recognition. Students learning machine learning gain exposure to data handling and algorithms. This knowledge is valuable for advanced technical roles.

- **Mr. Vishnukumar Pathade**



Student Technical Articles

Artificial Intelligence for Students

Artificial Intelligence is changing how machines think, learn, and make decisions. Technologies such as chatbots, recommendation systems, and face recognition are common examples of AI in daily life. Learning AI helps students improve logical thinking and problem-solving skills. It also opens career opportunities in research, development, and innovation across multiple industries.

- **Yash Mahesh Fhokmare**



Software Development Skills

Software development involves designing, coding, testing, and maintaining applications. Learning programming languages and development tools helps students build real-world applications. Team projects improve collaboration and problem-solving abilities. Strong software skills increase employability and career growth.

- **Mrs. Mahima Hiranman Maskar**



Cloud Computing Basics

Cloud computing allows users to store data and run applications over the internet instead of local computers. Services like online storage, virtual machines, and cloud platforms make computing flexible and cost-effective. For students, cloud knowledge helps in project deployment and teamwork. It also prepares them for modern software and IT careers.

- **Mrs. Namrata Khamankar**



Core Committee of IEEE Student Branch, TGPCET

Dr. Swapnili Karmore
Professor & Head, Computer Science & Engineering
 IEEE Branch Councilor, TGPCET, Nagpur
 IEEE CIS Student Chapter Advisor

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Expert Talk on 'Utilisation of a Series of Autonomous Robots Across the Globe' through IEEE



IEEE Students Branch and IEEE CIS Student Chapter of TGPCET, Nagpur successfully organized an enlightening **Expert Talk on "Utilisation of a Series of Autonomous Robots Across the Globe"** for students and faculty. The session was delivered by **Dr. Vinit Kotak**, Senior IEEE Member and Professor, Shah & Anchor Kutchhi Engineering College, Mumbai. The talk highlighted real-world applications of robots in healthcare, pandemic response, drone-based medicine delivery, global case studies, and humanoid factories. The event received immense support and encouragement from the management, administration, and IEEE team, making it highly informative and successful.



TGPCET Inaugurates IEEE Student Branch and IEEE CIS Student Chapter

TGPCET, Nagpur successfully inaugurated the **IEEE Student Branch and IEEE CIS Student Chapter** on **30th August 2025** at JRD Hall. The event included Saraswati Vandana, keynote address by **Dr. Prabhat Kumar Sharma**, chapter installation, badge distribution, and felicitation of office bearers. The program marked a milestone in fostering technical excellence, research culture, leadership, and global exposure among students through IEEE activities.



Workshop

DTE Code: 4151 www.lgpcet.com

TULSIRAMJI GAIKWAD-PATIL
College of Engineering & Technology
Approved by AICTE, New Delhi and Govt. of Maharashtra | Affiliated to K. J. Somaiya Institute of Technical Education, Vashi, Mumbai
— AN AUTONOMOUS INSTITUTE —

Department of Computer Science & Engineering
Organizing
Two Days Workshop
on
"YOLOv8: Object Detection"

MR. TAUSIF KURESHI

19th - 20th September 2025 10.30 Onwards AI/ML Lab, 1st floor Building 3

GAIKWAD-PATIL
GROUP OF INSTITUTIONS
YOUR DREAM IS OUR MISSION

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



Two-Day Workshop on YOLOv8 Object Detection

A two-day workshop on **YOLOv8 Object Detection** was conducted for students to provide hands-on exposure to real-time computer vision technology. The session was led by **Taisif Kureshi**, who introduced participants to the fundamentals of object detection and practical implementation of YOLOv8. The workshop enhanced students' understanding of AI applications and encouraged them to explore advanced technologies in machine learning and computer vision.

Workshop



Two-Day Workshop on Cloud Computing Under CSI Chapter

A two-day workshop on **Cloud Computing** was organized under the **CSI Chapter** to provide students with insights into modern cloud technologies and services. The workshop focused on fundamental cloud concepts, real-world applications, and career opportunities, helping students understand the importance of cloud platforms in today's digital ecosystem.

Workshop



Two-Day Workshop on Cyber Security Under ISTE & CSI Chapter

A two-day workshop on **Cyber Security** was organized under the **ISTE & CSI Chapter** to create awareness about digital threats and safe online practices. The workshop covered fundamental concepts of cyber security, common attack methods, and preventive measures, helping students understand the importance of securing data and digital systems.

Industrial Visit



Industrial Visit at Pragmatyc Under Student Chapter

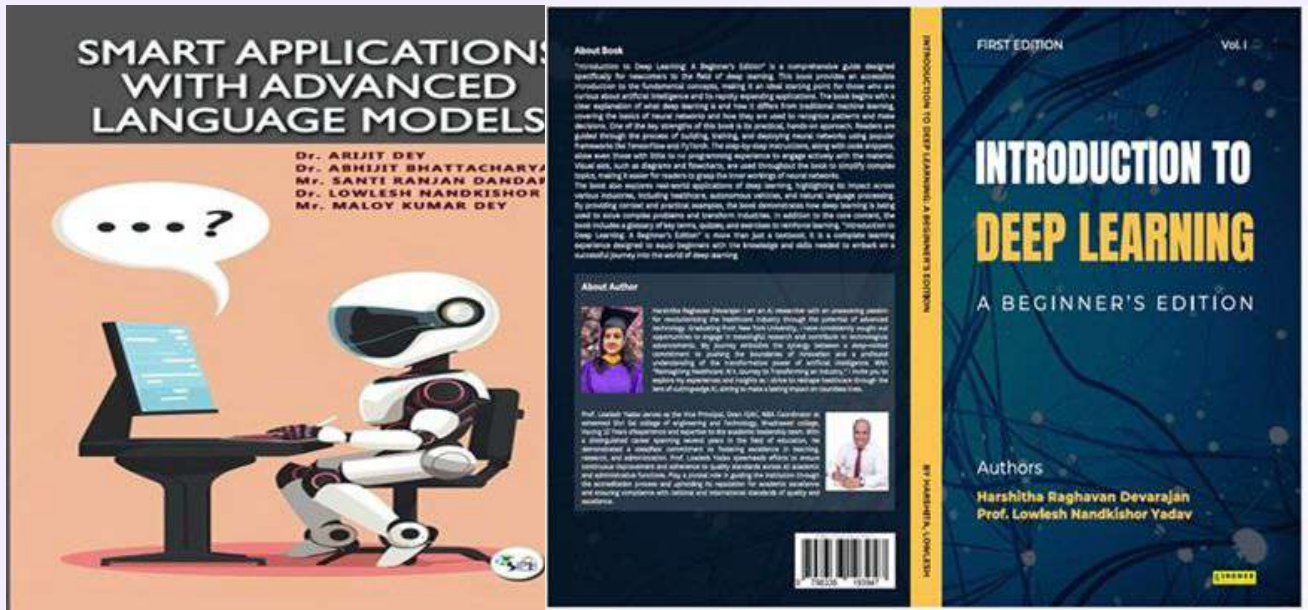
Second-year students participated in an industrial visit to **Pragmatyc** under the Student Chapter to gain practical industry exposure. The visit helped students understand real-world working environments, emerging technologies, and professional practices, bridging the gap between academic learning and industrial applications.

Research Corner

<u>Sr. No</u>	<u>Name of Faculty</u>	<u>Name of subject</u>	<u>Title of Book</u>	<u>PublicationName of author and</u>
1	Dr. Swapnili Karmore	Data Science & Analytics	Data Science & Analytics	Dr. Swapnili Karmore, Lambert Publications
2	Dr. Lowlesh Yadav	AI	Smart Application with Advanced Launguage Model	1. Dr. Arijit Dey, 2. Dr. Abhijit Bhattacharya, 3. Mr. Santi Ranjan Dandapat, 4. Dr. Lowlesh yadav , Mr. Maloy Kumar Dey.
3	Dr. Lowlesh Yadav	Deep Learning	Introduction to deep Learning	1. Harshita Raghavan Devarajan, 2. Dr. Lowlesh yadav
4	Prof. Brahmadeo Wadibhasme	DSP	Fundamentals of Signals & System	Dr. Vinay Keswani, Bramhdeo wadibhasme, Dr. Ghanshyam Nikhade

Faculty Achievement Books Publications of Faculty: 04

Research Corner



Dr. Lowlesh Yadav has published this books – Introduction to Deep Learning & Smart Applications with Advanced Language Models.

Call Now

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Fundamentals of Signals and Systems

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Author(s)	: Dr Vinay Keswani, Bramhadeo Wadibhasme, Dr. Ghanshyam Nikhade, Vishal Jaiswal, Dr. Rushikesh Bankar, Rajesh Nakhate, Pravin Jaronde, Dr. Mahendra Gaikwad and Dr. Atul Deshmukh
Paperback ISBN	: 978-93-7150-326-6
Ebook ISBN	: 978-93-7150-176-7
Publisher	: AkiNik Publications
Language	: English


Fundamentals of Signals and Systems – A comprehensive textbook published by a team of expert authors.

Research Corner

Faulty Name	Paper Title	ISBN/ISSN	DOI	Date of publication	Link of paper
Dr. Swapnili Karmore	EBBSMWN: design of an energy-aware blockchain based Bioinspired Security Model for Wireless Network IJCNIS 2024.	ISSN: 1744-1765, eISSN: 1744-1773	10.1504/IJCS.2025.148857	October 2025	https://www.inderscienceonline.com/doi/abs/10.1504/IJCS.2025.148857

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International Journal of Information and Computer Security > 2025 Vol.28 No.2

Title: EBBSMWN: design of an energy-aware blockchain-based bioinspired security model of wireless networks

Authors: Bhupesh B. Lonkar; Swapnili Karmore

Addresses: Department of Computer Engineering, Cummins College of Engineering for Women, Nagpur, India *
 Department of CSE-AI&ML, Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur, India

Abstract: Energy-aware wireless networks require low-complexity data communication computations for operational longevity and real-time traffic demands. However, these networks face security and scalability challenges when node numbers exceed a threshold, leading to proposed models. This abstract presents a new approach to improve energy-aware wireless networks' security using blockchain technology and bioinspired techniques. It uses the ant lion optimisation method to select optimal encryption and hashing models for energy-aware blockchains, and the elephant herding optimisation model to enhance energy efficiency. The model's feasibility was tested using various performance indicators, including Sybil, DDoS, Finney, and man-in-the-middle attacks. The proposed model, combining blockchain technology, bioinspired techniques, and optimisation algorithms, results in a 4.5% reduction in energy consumption, a 5.9% decrease in communication delay, and a 2.5% reduction in jitter in wireless networks, offering a promising solution for energy-aware wireless networks.

Keywords: blockchain; encryption; hashing; sharding; attacks; delay; energy; jitter; scenarios.

DOI: 10.1504/IJCS.2025.148857

International Journal of Information and Computer Security, 2025 Vol.28 No.2, pp.227 - 248

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Research Corner

Sr.No.	Name of Faculty	Name of Conference / Journal where paper submitted or presented	Title of Paper	Status of Paper
1	Dr. Swapnili Karmore	SCI & Scopus Journal : International Journal of Information and Computer Security (IJCNIS) (Volume 28, Issue 2, Pages 227–248)	EBBSMWN: design of an energy-aware Block chain based Bioinspired Security Model for Wireless Network IJCNIS 2024.	Published
2	Dr.Swapnili Karmore	National Conference AICTE-VAANI Sponsored National Conference on sustainable Energy in the Context of Climate Change' (SEMCCC-2K25), scheduled on 10th and 11 th October 2025.	ChronoInsight: Automated Web tracking & Visualization for User Experience Optimization	Published

Research Corner

3	Prof. Shubhkirti Bodkhe	Springer, National Academy Science Letter.	Self-Supervised Multi-Modal Transformers for Real-Time Decision Making in Edge AI Systems	Accepted
4	Prof. Komal Naxine	Iranian Journal of Science and Technology	Explainable Reinforcement Learning via Symbolic Trajectory Abstractions for Safe Robotics	Submitted
5	Prof. Bramhdev Wadibhasme	BJIT Scopus – International Journal of Information Technology	Energy Aware Lightweight Deep Learning Models for Real-Time Edge Intelligence in Ultra-Low-Power IoT Environment	Submitted

Research Corner

6.	Prof. Priyanka Chaoudhari	Springer, National Academy Science Letter.	Architecture Search for Carbon-Efficient AI on Resource-Constrained Devices: A Comprehensive Review	Submitted
7.	Prof. Priyanka Chaoudhari	National Conference AICTE-VAANI Sponsored National Conference on sustainable Energy in the Context of Climate Change' (SEMCCC-2K25), scheduled on 10th and 11 th October 2025.	The Global impact of Artificial Intelligence: Recent Progress and Future directions	Published
8.	Prof. Snehal Rewatkar	National Academic Science Letters Springer Journal	Self-Evolving Machine Learning Architectures for Continual AI Adaptation in Dynamic Environments	Accepted

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Ms. Bhavika Ahire
CSE



Ms. Chetana Nagpure
CSE



Mr. Ranaamandeep Singh
CSE



Mr. Rushikesh Bahekar
CSE



Mr. Sahil Jaronde
CSE



Mr. Sheeten Karmankar
CSE

Placements

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Mr. Abhinav Chavan

Computer Science and Engineering
 Batch- 2026

Faculty Achievements

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Sr. No.	Name of Faculty	Title of Course	Percentage	Remark
1	Prof. Nitin Khadane	Patent Drafting for Beginners	73%	Silver + Elite
2	Prof. Priyanka Choudhary	Accreditation & outcome based Learning	65%	Elite
3	Prof. Komal Naxine	OBE & Accreditation	75%	Silver + Elite
4	Prof. Shubhkirti Bodkhe	OBE & Accreditation	75%	Silver + Elite
5	Prof. Nitin Khadane	Data Science for Engineering	61%	Elite
6	Prof. Nitin Khadane	Python for Data Science	61%	Elite

No. of Faculty NPTEL :- 06

Faculty Achievements

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Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to
PRIYANKA CHOUDHARY
for successfully completing the course



Accreditation and Outcome Based Learning

with a consolidated score of **65** %

Online Assignments	19.46/25	Proctored Exam	45.92/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1958**

Aug-Oct 2025
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL25GE63S364400369

To verify the certificate



No. of credits recommended: 2 or 3



Elite

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This certificate is awarded to
NITIN GENDLAL KHADANE
for successfully completing the course



Data Science for Engineers

with a consolidated score of **61** %

Online Assignments	23.54/25	Proctored Exam	37.63/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **5002**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Sep 2025
(8 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25CS101S542900196

To verify the certificate



No. of credits recommended: 2 or 3

Faculty Achievements

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Patent Drafting for Beginners

with a consolidated score of **73** %

Online Assignments	20.25/25	Proctored Exam	52.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **1074**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Aug 2025

(4 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25HS117S442901008

To verify the certificate



No. of credits recommended: 1 or 2



Elite NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to
NITIN GENDLAL KHADANE
for successfully completing the course



Python for Data Science

with a consolidated score of **61** %

Online Assignments	23.17/25	Proctored Exam	37.76/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **16331**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Aug 2025

(4 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25CS104S342900277

To verify the certificate



No. of credits recommended: 1 or 2

Faculty Achievements

NPTEL

Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
KOMAL RAJKUMAR NAXINE
for successfully completing the course


OBE and Accreditation

with a consolidated score of **75** %


Online Assignments	21.88/25	Proctored Exam	53.5/75
--------------------	----------	----------------	---------


Total number of candidates certified in this course: **1602**

Jul-Oct 2025
(12 week course)


Prof. L. Umanand
NPTEL Coordinator & Chair, Centre for Continuing Education, IISc Bangalore

 Indian Institute of Science Bangalore



Roll No: NPTEL25GE79S1264401222 To verify the certificate  No. of credits recommended: 3 or 4

Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
SHUBHKIRTI BODKHE
for successfully completing the course

OBE and Accreditation

with a consolidated score of **75** %

Online Assignments	20.6/25	Proctored Exam	54.25/75
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Total number of candidates certified in this course: **1602**

Jul-Oct 2025
(12 week course)


Prof. L. Umanand
NPTEL Coordinator & Chair, Centre for Continuing Education, IISc Bangalore

 Indian Institute of Science Bangalore

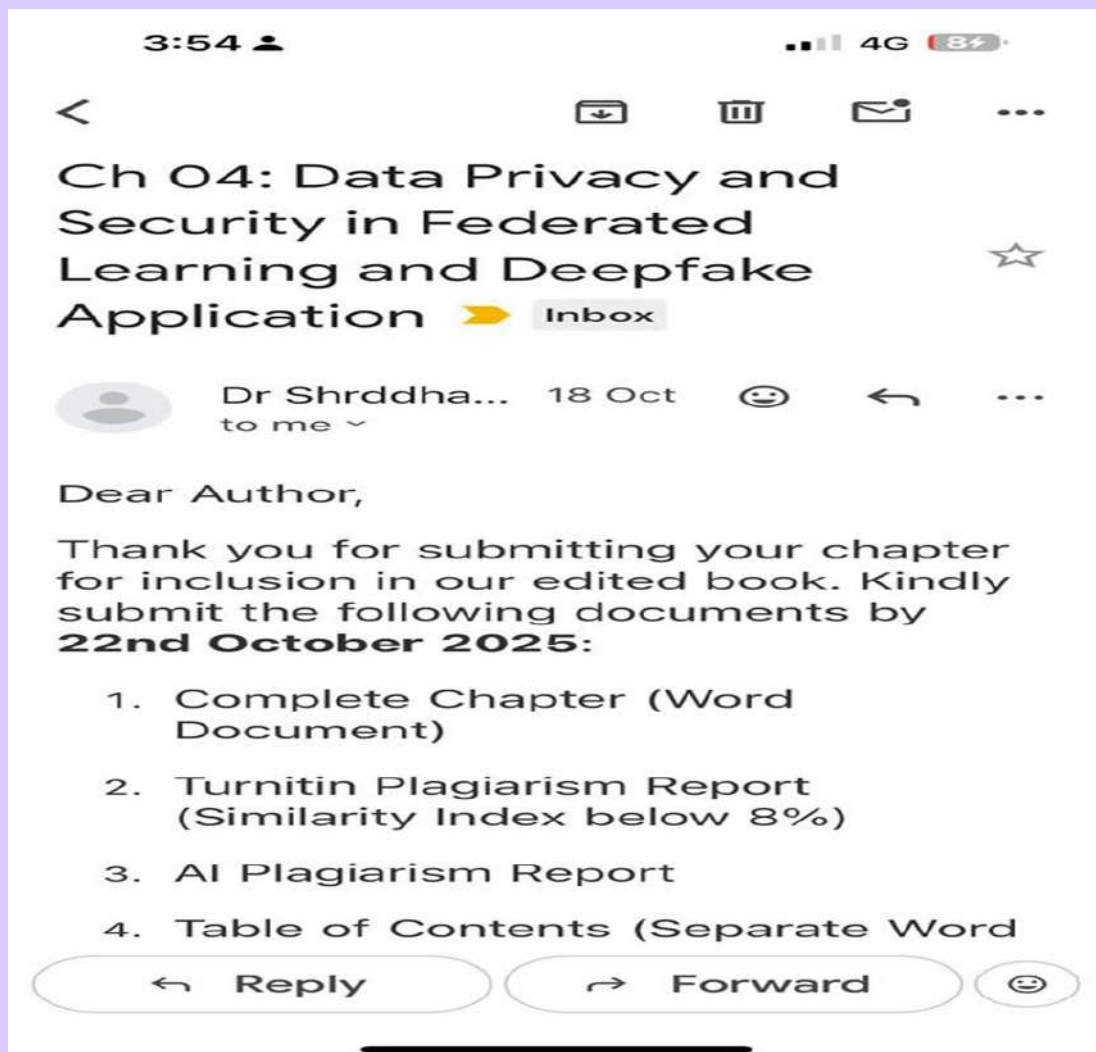


Roll No: NPTEL25GE79S1264402304 To verify the certificate  No. of credits recommended: 3 or 4

Faculty Achievements

Sr. No	Name of Faculty	Name of subject	Title of Book/Book Chapter	Name of author and Publication
1	Dr. Swapnili Karmore	Cyber Security	Book Chapter: Data Privacy and Security in Federated Learning and Deepfake Application	Villey Publication

Books Chapter Publications submission of Faculty





NAAC Accredited Vidarbha Bahu-uddeshiya Shikshan Sanstha's

TULSIRAMJI GAIKWAD-PATIL

College of Engineering & Technology

— An Autonomous Institute —



COMPUTER SCIENCE & ENGINEERING DEPARTMENT

THIRD SEMESTER TOPPERS



Ms. Manasi Dhargave
Pointer : **9.82**



Ms. Tanuja Narwade
Pointer : **9.77**



Ms. Sayali Bhujade
Pointer : **9.55**



Mr. Shafin Sheikh Iqbal
Pointer : **9.55**



TULSIRAMJI GAIKWAD-PATIL

College of Engineering & Technology

— An Autonomous Institute —

DTE
4151



COMPUTER SCIENCE & ENGINEERING DEPARTMENT

FIFTH SEMESTER TOPPERS



Ms. Aarti Ghayade
Pointer : **10.00**



Mr. Preet Gawali
Pointer : **10.00**



Mr. Tomesh Kurzekar
Pointer : **9.86**



Ms. Bhumika Rathod
Pointer : **9.71**



NAAC Accredited Vidarbha Bahu-uddeshiya Shikshan Sanstha's

TULSIRAMJI GAIKWAD-PATIL

College of Engineering & Technology

— An Autonomous Institute —

DTE
4151



COMPUTER SCIENCE & ENGINEERING DEPARTMENT

SEVENTH SEMESTER TOPPERS



Mr. Hemant Sangrame
Pointer : **9.57**



Mr. Rupesh Mutkule
Pointer : **9.42**



Mr. Sheeten Karmankar
Pointer : **9.42**



Mr. Ashish Khillare
Pointer : **9.42**



Ms. Shreya Patil
Pointer : **9.33**

NPTEL Achievers



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

NEAL AMAR KURIL

for successfully completing the course

Data Analytics with Python

with a consolidated score of **56** %

Online Assignments	16.53/25	Proctored Exam	39.8/75
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Total number of candidates certified in this course: **10022**

Prof. Kaushik Ghosh,
Professor (Chemistry)
Coordinator CEC

Jan-Apr 2025

(12 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)



Indian Institute of Technology Roorkee



Roll No: NPTEL25CS17S1252801718

To verify the certificate



No. of credits recommended: 3 or 4

STUDENT ACHIEVEMENTS



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

VAISHNAVI POHARE

for successfully completing the course

Artificial Intelligence: Concepts and Techniques

with a consolidated score of **60** %

Online Assignments	24.69/25	Proctored Exam	35.5/75
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Total number of candidates certified in this course: **6785**

Jul-Oct 2025

(12 week course)

Prof. L. Umanand
NPTEL Coordinator & Chair, Centre for Continuing
Education, IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL25CS159S1264401244

To verify the certificate



No. of credits recommended: 3 or 4



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

RANI BHUTE

for successfully completing the course

Artificial Intelligence: Concepts and Techniques

with a consolidated score of **57** %

Online Assignments	24.38/25	Proctored Exam	32.81/75
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Total number of candidates certified in this course: **6785**

Jul-Oct 2025

(12 week course)

Prof. L. Umanand
NPTEL Coordinator & Chair, Centre for Continuing
Education, IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL25CS159S1164401534

To verify the certificate




No. of credits recommended: 3 or 4

NPTEL Achievers



STUDENT ACHIEVEMENTS

 **NPTEL ONLINE CERTIFICATION**
(Funded by the MoE, Govt. of India)

This certificate is awarded to
YOGIRAJ TAMBULE
for successfully completing the course


Applied Accelerated Artificial Intelligence


with a consolidated score of **56** %

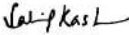
Online Assignments	25/25	Proctored Exam	30.62/75
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Total number of candidates certified in this course: **591**


Jul-Oct 2025
(12 week course)


 Skill India
कौशल भारत - कुशल भारत





Dr. Salil Kashyap
Coordinator, Centre for Educational Technology,
IIT Guwahati

 Indian Institute of Technology Guwahati



Roll No: NPTEL26CS98S464401955 To verify the certificate  No. of credits recommended: 3 or 4

Elite

 **NPTEL ONLINE CERTIFICATION**
(Funded by the MoE, Govt. of India)

This certificate is awarded to
RIYA SUNIL GEDAM
for successfully completing the course


Introduction to Internet of Things


with a consolidated score of **66** %


Online Assignments	16.66/25	Proctored Exam	49.5/75
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Total number of candidates certified in this course: **50282**


Jul-Oct 2025
(12 week course)


 Skill India
कौशल भारत - कुशल भारत





Prof. Haimanti Banerji
Coordinator, NPTEL,
IIT Kharagpur

 Indian Institute of Technology Kharagpur



Roll No: NPTEL26CS147S964401595 To verify the certificate  No. of credits recommended: 3 or 4

Elite

 **NPTEL ONLINE CERTIFICATION**
(Funded by the MoE, Govt. of India)


This certificate is awarded to
NEAL AMAR KURIL
for successfully completing the course

Python for Data Science


with a consolidated score of **70** %


Online Assignments	21/25	Proctored Exam	48.75/75
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Total number of candidates certified in this course: **11133**



Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM


Jul-Aug 2024
(4 week course)


 Skill India
कौशल भारत - कुशल भारत




Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

 Indian Institute of Technology Madras



Roll No: NPTEL24CS68S142400951 To verify the certificate  No. of credits recommended: 1 or 2

Hackathon



STUDENT ACHIEVEMENTS



Team Selected in PARANOX 2.0 Hackathon

A hackathon named **PARANOX 2.0** was successfully organized with participation from more than **20,119 participants** across various institutions. Our team was selected for its innovative prototype titled **Digital Classroom**, which focused on enhancing learning through technology. The team comprised **Yogiraj Tambule, Yash Godse, Priyansh Pardhi, and Kartik Shrirang**, whose collaborative effort and technical skills contributed to this achievement.



Faculty Achievements



🎉 **Heartiest Congratulations to respected HOD Dr. Lowlesh Yadav Sir on research contribution. We are proud of your achievement and inspired by your dedication**

Best Women Teaching faculty (Degree Level) ISTE Award 2024





**S
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S**



Winner of Code Battle 2025



Glimpses



Technical Fest



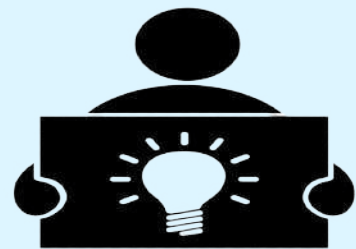
Forum Re-installation



Glimpses





Model presentation on engineers day



Department official links

- Facebook : <https://www.facebook.com/cse.tgpcet>
- LinkedIn : https://www.linkedin.com/in/cse-department-tgpceta18838296?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base_contact_details%3BU9FLQb%2BgREK%2F40A1p6ma%2FQ%3D%3D
- WhatsApp : <https://chat.whatsapp.com/Cn7Ar8ocReP0ZyHokDskwK>
- Instagram : https://www.instagram.com/cse_tgpcet/

 Admissions
 +91 99229 66176 / 97637 11372
 ddm@gpgit.com
 www.tgpcet.com

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