Dr. D. Y. Patil College of Engineering and Innovation

Varale, Talegaon, Pune

e-bulletin

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Ms. Vaishnavi Patil, CE

Our Inspiration

I am very proud to share that our College under D. Y. Patil Education Federation (DYPEF) is one of the most eminent Higher Educational Institution today and is renowned for standards of its Faculties, Students and Alumni. It is constantly pushing the frontiers of knowledge and ensures the futuristic approach that keeps pace with the changing trends of the professional world

Padmashree (Dr.) D. Y. Patil Founder of DYPATILEF, Pune.

From Presidents Desk

DYPEF nurtures the students with innovative teaching-learning atmosphere well equipped with state of art infrastructure and strong academic and administrative systems. We trust in serving the society through quality education that empower us to generate quality human resources. We believe that education should foster confidence, discipline, clarity in thought and decision-making ability to set and achieve goals, and above all, social responsibility as a life-long process.

Dr. Sushant Patil, PhD, MBA, LLB, BSL
President of DYPATILEF, Pune.

From Secretary Desk

We strongly believe that every young mind is to be moulded in a way best suited with the best skills that individual has and to bring out the best in him/her. To discover the hidden talents of students and to bring out their innovative best.

Mrs. Anuja Patil, BSL LLB, LLM, B.Ed
Secretary of DYPATILEF, Pune.

From Executive Director Desk

DYPEF campus, a temple of learning and a hallmark of discipline, treads towards the pinnacle of glory by providing quality education to meet the global standards. The organization is one of the most eminent Higher Education Institutions today, and it is renowned for the standards of its teaching methodology, facilities and students.

Mr. Vidyanand Mankar, B.Com, D. C. M., Oracle B++
Executive Director of DYPATILEF, Pune.

From Principal Desk

We at DYPCOEI are continuously striving to impart value-based education to elevate satisfaction level of all stakeholders. We all are ready to Take dedicated efforts to create competent professionals by effective teaching learning process with passion of lifelong learning attitude.

Dr. Suresh Mali, Ph.D., M. E. (Computer Applications)
Principal, DYPCOEI, Pune.

Vision

To achieve excellence in quality education through value based rapidly changing technologies and create technical Human-Resource with proficiencies of accepting new challenges.

Mission

M1 *Continuously strive to impart value-based education to elevate the satisfaction level of all stakeholders.*

M2 *Take dedicated efforts to create competent professionals by effective teaching learning process with passion of lifelong learning attitude.*

M3 *Our endeavor is to promote and support innovative research, entrepreneurship and development activities through Industry Interaction.*

Institute Award
CISCO NET ACADEMIC EXCELLENCE AWARD 2025

Prof. (Dr.) Suresh Mali, Principal DYPCOEI received "NetAcad Excellence Award 2025" by CISCO Networking Academic at CISCO, Head Office, Bengaluru on 17th January 2025.

Great Milestone for **Dr. D. Y. Patil College of Engineering and Innovation, Varale** campus received **"NetAcad Excellence Award 2025"** from **CISCO Networking Academy** in short span of time. **Prof. (Dr.) Suresh Mali, Principal DYPCEOI** participated **CISCO NetAcad India Conference 2025** at **CISCO, Head Office, Bengaluru, Karnataka** on 17th January 2025.

Institute Tie-Up
TNS INDIA FOUNDATION, INDEED INSPIRING INFOTECH

Dr. D. Y. Patil College of Engineering & Innovation, Varale has signed a Memorandum of Understanding (MoU) with TNS India Foundation, Mumbai on 2nd January 2025.

A CSR initiative:

📌Underprivileged students will be benefited by 200hr training.

📌Training based on Aptitude training, Soft-skill training and technical training.

Dr. D. Y. Patil College of Engineering & Innovation, Varale has signed a Memorandum of Understanding (MoU) with Indeed Inspiring Infotech on 8th January 2025.

Student Achievements

PLACEMENT

HEARTY CONGRATULATIONS

Prof. (Dr.) Suresh Mali, Principal DYPCOEI felicitating Mr. Ruturaj Dharne, final year students of AI-DS placed in Parallel Wireless, Pune with a package of 11LPA.

Prof. (Dr.) Suresh Mali, Principal DYPCOEI felicitating Mr. Rushikesh Kolge, Mr. Anikesh Tripathi, Mr. Sarthak Kamble final year students of Computer Engineering placed in Neilsoft, Pune with a package of 5LPA.

YOUNG INSPIRATORS NETWORK (YIN) - 2025

The Young Inspiratory Network(YIN) provides the Youth a platform to network and collaborate with like-minded people seeking Personal, Professional and Social Development towards the ultimate goal of Nation Transformation. YIN provides students a unique opportunity of exposure and experiential learning by participating in live projects and programmes that have direct outcomes in the transformation of their communities at the state, national and international levels. This is achieved through the mechanism of YIN Forums. Mr. Udayan Dusane and Mr. Gaurav Nikam Second Year Computer Engineering Students getting selected as President and Vice President respectively for our college in YIN Leadership development program 2025.

Sakal newspaper published YIN 2025 awarded students list Mr. Udayan Dusane and Mr. Gaurav Nikam Second Year Computer Engineering Students getting selected as President and Vice President respectively.

KIRAN GIRLS SCHOLARSHIP

Prof. (Dr.) Suresh Mali, Principal DYPCOEI felicitating Miss. Priya Sanjay Nandewar and Miss. Kadambari Dhok direct Second Year students of Computer Engineering got Kiran Girls Scholarship by Persistent Systems, Pune.

Dr. Suresh Mali, Principal DYPCOEI felicitating Miss. Shraddha Shankar Muley, First Year Computer Engineering student got Kiran Girls Scholarship - 2024 from Persistent Systems, Pune.

Department of Computer Engineering organized session on "Kiran Girls Scholarship Program – 2024-25" by Miss. Vaishnavi Desai, representative of Persistent Foundation on 30th September 2024. She explained all details and procedure about Kiran Girls Scholarship.

SKILL CERTIFICATE

Mr. Siddharth Bellundagi, First Year Engineering student successfully completed "Hackseries 01: Web Development Hackathon" organized by the Association of Computer Engineering Students of Dr. D. Y. Patil Institute of Technology, Pimpri, Pune.

Hackseries event is a Build Strong foundation, Hands-on Learning, Career-Oriented Domains and Peer Learning executed by Association of Computer Engineering Students, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune.

Mr. Siddharth Bellundagi, First Year Engineering student successfully completed the course of "Front End Web Development" by APNA College.

Front End Web Development: A solid foundation in HTML, CSS, JavaScript, etc

Faculty Achievements

PAPER PUBLICATION ON SCOPUS

Prof. (Dr.) Alpana Adsul, Head Computer Engineering published paper on Scopus index paper title

on **"Quantum Cryptography for Secure Data Transmission in IoT Networks" DOI:10.52710/cfs.27, Corpus ID:276041648**

Abstract: The rapid expansion of the Internet of Things (IoT) has introduced significant security challenges, especially in safeguarding sensitive data transmitted across vast networks. Traditional cryptographic methods, though widely used, face increasing vulnerabilities in light of advancements in quantum computing. This research explores the application of quantum cryptography, particularly Quantum Key Distribution (QKD), to secure data transmission in IoT networks. Quantum cryptography offers a revolutionary approach by utilizing the principles of quantum mechanics, ensuring communication channels are resistant to eavesdropping and quantum attacks. Despite its promise, integrating quantum cryptography into resource-constrained IoT environments presents several technical challenges. This paper examines current quantum cryptographic techniques, their feasibility for IoT applications, and proposed solutions for overcoming integration hurdles.

POSTDOCTORAL RESEARCH PROGRAM

Prof. (Dr.) Dipannita Debasish Mondal, Head AI-DS offered with Internationally Sponsored

Postdoctoral Research Program.

We are delighted to announce that Prof. (Dr.) Dipannita Debasish Mondal, after successfully completing her International Ph.D. in August 2024 in the field of Brain to Brain Communication, has now been offered for Internationally Sponsored Postdoctoral Research Program in Computer Science and Engineering (CSE) at one of the top QS-ranking university from 20th January 2025.

Her innovative research focuses on designing **Hybrid AI Models for Brain Mapping**, a domain that holds immense potential for advancing neuroscience and artificial intelligence.

Her remarkable achievement has been possible due to the unwavering support of our institution's management and the collaborative spirit of our esteemed colleagues.

We take immense pride in her tireless dedication, focused determination and look forward to her continued contributions in the field of research, bringing honor and recognition to **DYPCOEI** on the global stage.

Wishing her great success in academic and research endeavors.

FACULTY DEVELOPMENT PROGRAM

Ms. Asmita Mali, Ms. Mayuri Fegade, Ms. Deepali Narwade and **Ms. Sneha Bankar** Assistant Professor, Department of AI-DS successfully completed One Week Faculty Development Program on "Next-Gen AI: Innovations in Machine Learning, Deep Learning and Generative Models" organized by Department of Computer Engineering, Marathwada Mitra Mandal's Institute of Technology, Lohgaon, Pune from 6th – 11th January 2025.
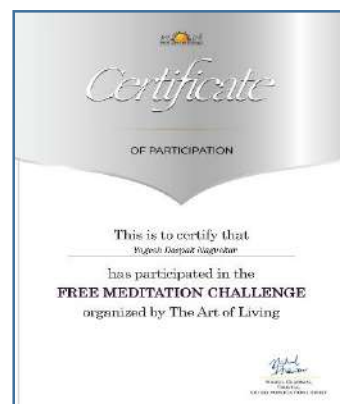

Ms. Asmita Mali, Ms. Mayuri Fegade and **Ms. Sneha Bankar**, Assistant Professor successfully completed One Week STTP on "Recent Trends & Techniques in Cyber & Digital Forensic" organized by Department of Computer Engineering, DYPCEOI, Varale association with Indian Society for Technical Education (ISTE) and collaboration with NFSU, Pune from 6th – 10th January 2025.

Prof. (Dr.) Alpana Adsul, Head of Compuer Engineering, Mr. T. Arivanantham, Ms. Abha Pathak and Ms. Poonam Sadafal Assistant Professor successfully completed One Week FDP on "Academia-Idustry Synergy: Leveraging Expertise for Mutual Growth" organized by Department of Artificial Intelligence & Data Science, Vishwakarma Institute of Technology, Pune from 20th – 24th January 2025.

Mr. Yogesh Deepak Nagvekar, Head of First Year Engineering has participated "FREE MEDITATION CHALLENGE" organized by The Art of Living.

Pre-Placement Training

SECOND YEAR STUDENTS

DYPCOEI, Varale Campus organized "Pre-Placement Training" for Second Year Engineering students from 6th – 11th January 2025 as per industry expectation. The session was attended by 200+ students from Department of Computer Engineering and AI-DS.

Day-1 (06-2025)

An industry expert has presented the syllabus, which includes a basic quiz competition and topics like Arithmetic Simplification, Square, Cube, Blood Relation Leap Year, Clock & Calendar, Tips and Tricks, etc.

Pre-Placement Training for SE students.

Day-2 (07-01-2025)

A quick explanation of basic arithmetic operations and simplification techniques was provided by an industry specialist. Also, he included an enormous number of practice examples. Students were asking questions and solving problems. An industry expert was astute enough to respond to the student's questions.

Day-3 (08-01-2025)

Number System, HCF & LCM, Blood Relations, Questions and Answers have been the areas of concentration for industry experts. Mr. Lakshmi Kant discussed the significance of high-scoring topics and how they help students score higher on aptitude tests. Along with this, easy tricks to solve complex problems were given by him.

Day-4 (09-01-2025)

Profit and Loss, Average, Weighted Average, Syllogism, Binary Logic, Direction Sense, And Questions & Answers have all been discussed by industry expert.

Day-5 (10-01-2025)

The instructor focused on the concepts and difficulties related to Time, Speed, And Distance. Square and Square Roots, Direction Sense difficulties resolved, and a brief quiz are organized in addition to that.

Day-6 (11-01-2025)

The instructor covered seating arrangements and the most crucial questions regarding direction sense. Multiple problems resolved by students.

The instructor covered Logical Reasoning, Statement & Assumptions, Ratio & Proportion, Seating Arrangement and numerous problems. Second Year Engineering students learned aptitude tasks in this Pre-Placement Training.

Pre-Placement Training

THIRD YEAR STUDENTS

DYPCOEI, Varale Campus organized "Pre-Placement Training" for Third Year Engineering students from 6th – 18th January 2025 as per industry expectation. The session was attended by 120+ students from Department of Computer Engineering and AI-DS.

The training was scheduled for 2 weeks:

1st week from 6th – 11th January they given training on "Quantitative Ability and Logical Reasoning".

2nd week from 13th -18th January they prearranged training on "Python Programming".

Day-1 (06-01-2025)

The instructor has presented the importance of Logical reasoning. He explained analyzing problems, identifying patterns, and making connections to draw valid conclusions. He clarified two main types: deductive reasoning and inductive reasoning.

Pre-Placement Training for TE students.

Day-2 (07-01-2025)

The instructor discussed how to solve mathematical problems, understand numerical data, and apply basic arithmetic concepts? He explained with different examples and shortcut formulas for quick calculations.

Day-3 (08-01-2025)

The instructor deliberated verbal reasoning concepts. He explained the relationship between two words and identifying a similar relationship for another pair. How to find the statement is true are false? He discussed importance of reading comprehension, critical thinking, problem-solving, and effective communication.

Day-4 (09-01-2025)

The instructor presented data Interpretation. He explicated how to analyze and interpret different forms of data, including tables, graphs and charts?

Day-5 (10-01-2025)

The instructor described how to identify patterns, sequences and rules in various shapes, letters and numbers. He explained with suitable example and clarified students doubts.

Day-6 (11-01-2025)

The instructor defined techniques on Time and Work topic. He explained the time taken by an

individual or a group to complete a job or a piece of work and its efficiency.

Students learned pre-placement aptitude training through "Quantitative Ability and Logical Reasoning" skills from 6th – 11th January 2025 on 11th January they arranged aptitude test after test they discussed answers and clarified students doubts.

Test conducted on 11th January 2025

Pre-Placement training on "Python Programming" started from 13th – 18th January 2025 for TE students.

Day-7 (13-01-2025)

Industry expert has presented the basic concept of python with its key features, Limitations and real time applications. Also gives hands-on-training on different Python operators like- Arithmetic Operator, Assignment Operator, Bitwise Operator, Logic Operator, and Comparison Operator. Students solve many assignments of python programming.

Pre-Placement Training for TE students.

Day-8 (14-01-2025)

Industry expert has explained Data types, and Comments in python, and explain how to use lists, tuples, and dictionaries in Python programs. Also gives hands-on-training on different Control Statement in python like- Nested if Statement Syntax, Nested if-else Statement Syntax.

Day-9 (15-01-2025)

Industry expert has explain range() function and String. Also gives hands-on-training on range() function in python program.

Day-10 (16-01-2025)

Industry expert has explain different type of string like- single quote, double quote, and triple quote, also explain in Python, how to strings (str) can be created by enclosing text in single quotes ', double quotes " , and triple quotes (''' , """). Expert explained Errors and Exceptions. Also gives hands-on-training on handling exceptional error and syntax error in python program.

In this training student solved python assignments and 5 Mini Projects.

Pre-Placement training for TE students.

Day-11 (17-01-2025)

Trainers conducted test on python program. They evaluated student's papers and they discussed answers. They trained students to solve complicated program statement by simple formula implementation techniques.

Day-12 (18-01-2025)

Trainers formed mini groups of 3 to 4 students and they assigned mini project statement to each group. Students enthusiastically solved mini projects. The training created confidence to students for their campus placement.

Students cultivated pre-placement python programing training from 13th – 18th January 2025 after successful 2 weeks training improved students aptitude skills and python programing knowledge. They got confidence how to face & prepare for campus interview. This training was helpful to TE students and motivated students to check their aptitude skill test on different online aptitude test sites.

Pre-Placement Training
FINAL YEAR STUDENTS – BLOCKCHAIN

DYPCOEI, Varale Campus organized Pre-Placement Training for Final Year Engineering students on "Blockchain Technology" from 28th – 29th January 2025 as per industry expectation. The session was attended by 90+ students from Department of Computer Engineering and AI-DS.

Mr. Nitin Sharma and Mr. Gaurav Gangwar, Koii Infotech India Pvt.Ltd discussed on "Blockchain Technology". They explained blockchain as a decentralized, distributed ledger that records the provenance of a digital asset. By inherent design, the data on a blockchain is unable to be modified, which makes it a legitimate disruptor for industries like payments, cybersecurity and healthcare.

A database structures its data into tables where as a blockchain, like its name implies, structures its data into chunks (blocks) that are chained together. This makes it so that all blockchains are databases but not all databases are blockchains. This system also inherently makes an irreversible timeline of data when implemented in a decentralized nature. When a block is filled it is set in stone and becomes a part of this timeline. Each block in the chain is given an exact timestamp when it is added to the chain. Each node has a full record of the data that has been stored on the blockchain since its inception. For Bitcoin, the data is the entire history of all Bitcoin transactions.

If one node has an error in its data, it can use the thousands of other nodes as a reference point to correct itself. This way, no one node within the network can alter information held within it. Because of this, the history of transactions in each block that make up Bitcoin's blockchain is irreversible.

Following topics are deeply explained:

- **Blockchain Architecture**
- **Smart Contracts**
- **NFTs and Tokenization**
- **Blockchain Security and Privacy**
- **Building a Simple dApp (Decentralized Application)**

Glimpses of Pre-Placement Training for BE students.

STTP - Short Term Training Program
RECENT TRENDS & TECHNIQUES IN CYBER & DIGITAL FORENSIC

Department of Computer Engineering in association with Indian Society for Technical Education (ISTE) in Collaboration with National Forensic Sciences University (NFSU) Short Term Training Program (STTP) on "Recent Trends & Techniques in Cyber & Digital Forensic" from 6th – 10th January 2025.

Department of Computer Engineering has hosted the program. We are truly grateful to Dr. Pratapsinh Kakasaheb Desai, President, ISTE for sanctioning our STTP proposal. Also thankful to Prof. Mahipal for their continuous guidance.

Prof. (Dr.) Jagruti Panchal and Prof. (Dr.) Deepali Sale are STTP coordinators.

Saraswati Pujan by Dr. Suresh Mali, Principal DYPCOEI on 6th January 2025.

Program was started with Saraswati Pujan (Goddess of Knowledge and Wisdom) by respected dignitaries followed with felicitation.

Prof. (Dr.) Suresh Mali, Principal DYPCOEI has shared their thoughts and delivered speech on STTP program.

Dignitaries on the Dias.

Prof. (Dr.) Suresh Mali, Principal DYPCOEI addressing participants on 6th January 2025.

Day-01 (06-01-2025)

Mr. Senthil Venkidesan, Zold Academy Pvt. Ltd. Gurgaon, Haryana was the keynote speaker of the program. This session was brief introduction about latest cyber threats like APTs, ransomware, and IoT vulnerabilities and cybersecurity tools like Wireshark, Metasploit, and FTK Imager for conducting penetration testing and digital forensics.

Day-01: Session on "Cyber Security" by Mr. Senthil Senkidesan, Zold Academy Pvt. Ltd. Gurgaon, Haryana on 6th January 2025.

Day-02 (07-01-2025)

Mrs. Sharada Avadhanam, Director and Mr. Subramanyam from National Forensic Sciences University, Pune delivered session on "Digital Forensics Investigation Process".

Day-02: Session on "Digital Forensics & Cyber Crime" by Mrs. Sharada Avadhanam, Director and Mr. Subramanyam, National Forensic Sciences University, Pune on 7th January 2025.

They elucidated Digital Forensics & types, Importance of Cybersecurity & Criminal Investigations, Legal & Ethical Considerations and Overview of Common Cybercrimes. They expounded prevalent cybercrimes investigated using digital forensics

Day-03 (08-01-2025)

Mr. Deepak S. Kaldhone, Assistant Professor, NFSU and Dr. Priti Vijaykumar Pancholi, M.S. Bidve Engineering College, Latur delivered session on "Cybercrimes on Audio Video Analysis" and "Intellectual Property Rights" respectively.

Mr. Deepak S. Kaldhone, Assistant Professor, NFSU and Dr. Priti Vijaykumar Pancholi, M.S. Bidve, Engineering College, Latur

Mr. Deepak S. Kaldhone described Cyber Forensics Crimes and Legal approach, Digital evidences found on crime scene, Treatment of Digital evidence/exhibits with forensic and Digital Software / tools used for analyzing

Dr. Priti Vijaykumar Pancholi, revealed Patents, Copyrights, Trademarks and Trade Secrets. She explained how to Protect confidential business information, safeguarding ideas and respecting the rights of others.

They delivered session on awareness about cybercrimes and preventive measures.

Day-04 (09-01-2025)

Mrs. Yogita Sagar Dhage, Regional Information Officer, Man Trucks & Buses India Pvt. Ltd., Pune conveyed session on "Cybercrimes".

Mrs. Yogita Sagar Dhage, Regional Information Officer, Man Trucks & Buses India Pvt. Ltd., Pune conveyed session on "Cybersecurity".

She projected India's Cybersecurity Framework, Defensive Measures, Offensive Capabilities and International Cooperation.

Day-05 (10-01-2025)

Day-5 - All participants visited NSFU, Pune. There was demonstration and practical implementation of various digital and evidence investigation tool was shown and participants got real time experience in digital cybercrime process analysis.

National Forensic Science Academy - Pune, Maharashtra (NFSU Academy – Pune) is another off-campus of National Forensic Sciences University (NFSU), which has been established in collaboration with Directorate of Forensic Science Services (DFSS, New Delhi) and Central Forensic

Science Laboratory - Pune (CFSL- Pune) in the Month of June 2022 through NFSU Notification ADM/NFSU/Noti_Campuses/1932/2022. The academy is presently functioning from the CFSL - Pune building in the Pune district of Maharashtra. The NFSU Academy, Pune envisions a holistic development through research, training & quality education.

STTP participants visited NSFU, Pune on 10th January 2025 for Session.

There was huge contribution over the program, STTP attended by 62 participants and among that ISTE members are 41, Non ISTE members are 21. STTP conducted in hybrid mode.

STTP Certificate distributed for Participants on 10th January 2025.

SPPU Result
ACADEMIC YEAR 2024-25 (SEMESTER – I)

BE – TOPPERS (COMPUTER ENGINEERING)

KHAIRNAR RUPALI SUNIL

9.55

SAYYED ZAINAB MOHMADJAFAR

9.50

AHIRE MANODAY ANNIL

9.40

AWATE GAURI BALASAHEB

9.40

DHOBALE MANSI DATTA

9.40

TE – TOPPERS (COMPUTER ENGINEERING)

LAD NITESH BALU

9.57

BANGAR PRIYANKA SOMNATH

9.57

SHINGOTE TANMAY NAVNATH

9.43

WADEKAR HARERAM ZUMBER

9.43

ZODAGE SUHANI DATTATRAY

9.43

DATTATRAY JAYSINGRAO BHAGANAGARE

9.29

GAIKWAD SUNAKSHI NITIN

9.29

KADHANE PRATIKSHA MADHUKAR

9.29

SAWANT OMKAR RAMESH

9.29

BHANGE SHREYA NAGORAO

9.70

SEJAL NAGARSHI

9.70

VEDANT SASE

9.70

AAKANKSHA KADAM

9.70

BE – TOPPERS (AI-DS)

GOPHAN PRASAD SUNIL

9.85

BANGAR PRATIKSHA NITIN

9.85

KHOBRAGADE SHREYALI RAVINDRA

9.75

SHUBHAM SUTAR

9.75

DHARNE RUTURAJ RAMCHANDRA

9.70

RUCHITA WADTIKE

9.70

VINAY PACHORE

9.70

TE – TOPPERS (AI-DS)

DEWADE ASHWINI DILIP

9.71

PATIL AISHWARYA SAMBHAJI

9.71

BHOSALE SHRAVANI RAJENDRA

9.57

MANJARE VAISHNAVI SURESH

9.57

BODAKE TEJAL RAJESH

9.43

DORUGADE OMKAR DAYANAND

9.43

KASTURI SUNIL SABALE

9.43

Quotes of the Month