

ISSUE 1

VP-Connect

Department of Computer Engineering

1st July 2024 to 31st December- 2024

Inside this Issue

PAGE 1

- Institute Vision and Mission.
- Department Vision and Mission.
- PEO's

PAGE 2

Program Outcomes (POs) and PSO's

PAGE 3

- HOD Speak
- Winter 2024 Toppers

PAGE 4

Subject Toppers

PAGE 5,6,7,8

• Institute & Departmental Activities

PAGE 9,10,11,12,

 Institute & Departmental Activities

> PAGE 13,14,15,16,17,18

 Institute & Departmental Activities

Quote
"Education is the
most powerful weapon you can use to
change the world."

- B B King

Institute

Vision

To achieve excellence in imparting technical education so as to meet the professional and societal needs.

Mission

- Developing technical skills by imparting knowledge and providing hands on experience.
- Creating an environment that nurtures ethics, leadership and team building.
- Providing industrial exposure for minimizing the gap between academics & industry.

Department of Computer Engineering

Vision

To empower students with domain knowledge of Computer Engineering and interpersonal skills to cater to the industrial and societal needs.

Mission

- Developing technical skills by explaining the rationale behind learning.
- Developing interpersonal skills to serve the society in the best possible manner.
- Creating awareness about the ever changing professional practices to build industrial adaptability.

Program Educational Objectives

- **PEO1:** Provide socially responsible, environment friendly solutions to Computer engineering related broad-based problems adapting professional ethics.
- PEO2: Adapt state-of-the-art Computer engineering broadbased technologies to work in multidisciplinary work environments.
- **PEO3:** Solve broad-based problems individually and as a team member communicating effectively in the world of work.



Vidyalankar Polytechnic

Vidyalankar Educational Campus, Vidyalankar Marg, Wadala(East), Mumbai-400037, Telefax: 24161126 Website: www.vpt.edu.in

Program Specific Outcomes (PSOs)

- **Computer Software and Hardware Usage:** Use state-of-the-art technologies for operation and application of computer software and hardware.
- **Computer Engineering Maintenance:** Maintain computer engineering related software and hardware systems.

Program Outcomes (POs)

- 1. **Basic and Discipline specific knowledge:** Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
- 2. **Problem analysis:** Identify and analyse well-defined engineering problems using codified standard methods.
- 3. **Design/ development of solutions:** Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.
- 4. **Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
- 5. **Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.
- 6. **Project Management:** Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
- 7. **Life-long learning:** Ability to analyze individual needs and engage in updating in the context of technological changes.

"Knowledge is power. Information is liberating. Education is the premise of progress, in every society, in every family."

– Kofi Annan

"Teaching is a very noble profession that shapes the character, caliber, and future of an individual."

– Dr. Abdul Kalam

"Books are infinite in number and time is short. The secret of knowledge is to take what is essential. Take that and try to live up to it."

— Swami Vivekananda

HOD Speak

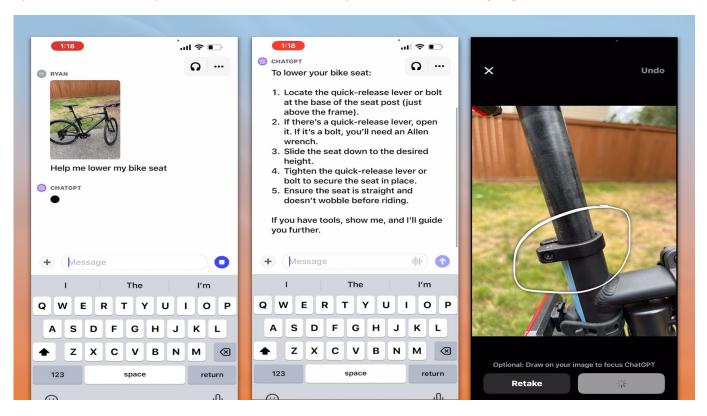


Er. Vijay T. Patil HOD, Computer Engineering

It's immense pleasure to present this semiannually newsletter "VP-Connect". Computer Engineering department is the dynamic and vibrant department with the blend of young and experienced Faculty. Through innovative teaching methods and hands-on experiences, we strive to equip our students with not only theoretical knowledge but also practical skills that will serve them well in the ever-evolving field of computer engineering. Industrial visits, Seminars, Workshops, Hackathon, Technical Events, training's, internships, Industry Projects is thrust areas has been the conventional practice. We wish the best for all our students, and the members of the institution who reiterate their aims at providing the best in academic and extra-curricular fields.

Technical News-Game Changing Al

Eight months on from its March release, OpenAI's GPT-4 remains the most powerful AI model to power a chatbot accessible to the public. While its predecessor, ChatGPT, performed better than just 10% of students taking the bar exam, GPT-4 outperformed 90% of them. It's adept at verbal reasoning, can break down complicated concepts into simple language, and can even explain why a joke is funny. In September, OpenAI began rolling out the abilities to interact with the model by voice and to use images as inputs. The update, GPT-4V, was tested with Be My Eyes, an organization that builds tools for visually impaired people, and can verbally describe the contents of a picture in natural language.



"Dream is not that which you see while sleeping it is something that does not let you sleep."

- APJ Abdul Kalam

Department Toppers

Semester 5 Toppers



Aditya Makhavana CO5I-A (95.33%)



Huzan Shroff
CO5I-B (92.22%)



Ekrama Ansari CO5I-C (92.89%)

Semester 3 Toppers



Ruchi Mulik CO₃K-A(92.94%)



Shruti Patil CO₃K-B(93.29%)

Semester 1 Toppers



Sharvil Dhumal CO₃K-C(94.47%)



Vinaya Patole CO1K-A(89.65%)



Vyoma Shinde CO1K-B(90.35)



Yash Kotkar CO1K-C(86.71)

Toppers

Subject Wise Toppers

Name of Subject	Name of Student	out of 70
Basic Mathematics	KHAN MOHD SAAD ANWAR AHMAD	70
Basic Mathematics	PATOLE VINAYA LAXMAN	70
Communication Skill	SHINDE VYOMA VINAYAK	64
Communication Skill	PATOLE VINAYA LAXMAN	63
Basic Science	SHINDE VYOMA VINAYAK	60
Basic Science	KHANKAR SAMEERA SANJAY	58
Data Structure using C	AVHAD PRIYANKA VALIBA	69
Data Structure using C	RAJPUT UNNATI CHANDRASHEKHAR	70
Data Structure using C	PATIL SHRUTI SANDESH	70
DBMS	OTAVKAR RIYA GOVIND	64
DBMS	MALVE SAMRUDDHI RAJESH	64
Digital Techniques	KADAM ASHLESH ARVIND	60
Digital Techniques	PATIL SHRUTI SANDESH	60
Digital Techniques	DHUMAL SHARVIL SOHAN	64
Object Oriented Programming	SHAH ADITYA SANJAY	67
Object Oriented Programming	GUTHULA LIKITHA PRASADA RAO	65
Object Oriented Programming	DHUMAL SHARVIL SOHAN	67
Object Oriented Programming	SHEIKH PARIHAAN JAVID	68
Operating System	PARMAR SHRUTIKA KISHOR	64
Operating System	GHARGE YASH SHRIRAM	65
Operating System	KANSE RENUKA AVINASH	67
Software Testing	SHAH SIDDHARTH PARESH	68
Software Testing	GHARGE YASH SHRIRAM	67
Software Testing	GADDAM RAJEEV DEVENDER	66
Client Side Scripting	BAJAGE SAMRUDDHI ASHOK	68
Client Side Scripting	LUDBE SANSKRUTI SANTOSH	65
Client Side Scripting	KOLI BHUMI GOVIND	66

Faculty Development Programs



Faculty Development Programs (FDP)

	Faculty Development	Faculty Development Program (FDP) organized in Aug ,Sept,Nov and Dec 2024 (Staff Development Committee)					
	Technical Training	Technical Training	Technical Training	Human Skill Training			
Theme / Subject	(Technical) ISTE Approved One Week FDP on IOT and Ubiquitous Computing for Emerging Technical Applications	(Technical) One Week Training Program on Cryptography and Network Security in Collaboration with NITTR, Chandigarh	(Technical) FDP on "Software Robotics Process Automation (RPA)" during November 4th-15th, 2024 in association with EICT academy, National Institute of Electronics & Information Technology, Gorakhpur sponsored by MeitY, GOI	(Human Skill) FDP on Nurturing Future Leadership Program under Aegis of MMTTP in Collaboration with IIM Mumbai			
TG	Teaching Staff	Teaching Staff	Teaching Staff	Teaching Staff			
Date	26/08/2024 to 30/08/2024	16/09/2024 to 20/09/2024	04/11/2024 to 15/11/2024	09/12/2024 to 13/12/2024			
Instructor	Mr. Gaurav Singh Dr. Rupali Bora Mr. Bhavin Darji Dr. Sagar Tambe Dr. SRINIDHI N N Dr. O S Jannath Nisha, Dr. Kavita Sultanpure, Dr. Gururaj H L, Dr. Priya S, Dr. Shreyas	Dr. Mala Kalra Dr. Anup Girdhar Dr. C. Rama Krishna Dr. Nilesh V. Patil Dr. Ashu Sharma Er. Vipin Gupta Adv. Nisheeth Dixit Sh. Gurcharan Singh	Mr. Ravi Rastogi Joint Director/Scientist –D NIELIT Gorakhpur Mr. Ritesh Pratap Rao Deputy Director/Scientist-C NIELIT Gorakhpur	Prof. Nikhil K. Mehta IIM Mumbai			
Name of Faculty (FDP Attended)	Prof. Servesh Gupta Prof. Shilpa Gaikwad Prof. Kirti Gupta Prof. Helina Tandel Dr. Sandhya Kumar Prof. Pranesh Naik Prof. Shanti K. Prof. Sonal Chavan Prof. Trupti Dudhat	Prof. Manisha Pokharkar Prof. Archana Gopnarayan Prof. Sushma Pawar	Prof. Apurva Wadekar Prof. Anjali Gharat Prof. Rasika Patil Prof. Prerana Jalgaonkar Prof. Samidha Chavan Prof. Sangeeta Shirsat Prof. Gauri Bobade Prof. Kalyani Pawar	Prof. Vaishali Malkar Prof. Anjum Mujawar Prof. Vijay Patil Prof. Yogita Khandagale			







Faculty Development program on IOT and Ubiquitous Computing for Emerging Technical

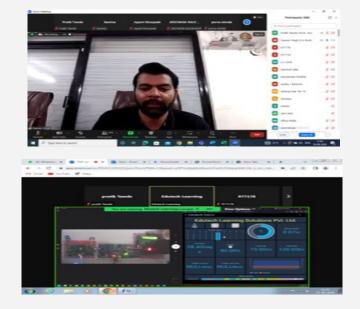
VidyalankarPolytechnic, Staff Development Committee conducted ISTE Approved One Week FDP on IOT and Ubiquitous Computing for Emerging Technical Applications from 26 Aug to 30 Aug 2024.

The Week -long programme included ten sessions which consisted of prominent speakers from various universities.

Outcomes of FDP;

- 1.To learn various concepts of IOT which includes design of IOT system, Integrating sensors with cloud and access with real data time.
- 2.To equip faculty members and researchers with knowledge, skills and practical experience needed to effectively





Training program on Cryptography and Network Security in collaboration with NITTTR, Chandigarh

Vidyalankar Polytechnic Staff Development Committee conducted Training program on Cryptography and Network Security in collaboration with NITTTR, Chandigarh from 16 Sept to 20 Sept 2024.

The week-long programme included 13 sessions which consisted of prominent speakers from NITTTR, Chandigarh.

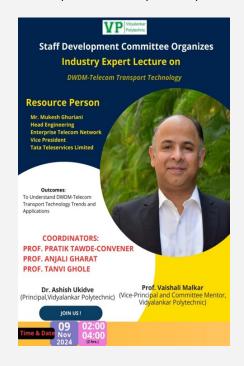




Industry Expert Lecture on DWDM-Telecom Transport Technology

Vidyalankar Polytechnic, Staff Development Committee conducted Industry Expert Lecture on DWDM-Telecom Transport Technology on 9 Nov 2024.Mr. Mukesh Ghuriani, Head Engineering, Enterprise Telecom Network, Vice President, Tata Teleservices Ltd. delivered session.

Dense Wavelength Division Multiplexing (DWDM) training aims to provide comprehensive knowledge and practical skills in understanding, designing, implementing and managing DWDM Systems. Participants learned about the fundamental principles of DWDM technology, its components and architecture including transponders, multiplexers, demultiplexers, optical amplifiers, and wavelength routers.







Training on Proactive Behaviour for Teaching and Non Teaching Staff

Staff Development Committee nominated staff members for Training on Proactive Behaviour for Teaching and Non Teaching Staff on 11 and 14 November 2024. Session was delievered by Dr. Kirti Potkar, PH.D in Counselling Psychology, USA.

Proactive behavior is the act of taking action before a situation occurs to solve a problem or make positive changes. It involves anticipating challenges, identifying solutions, and taking action without being prompted. Proactive behavior involves acting in advance of a future situation, rather than reacting. It refers to taking control of a situation and making early changes, rather than adjusting to a situation or waiting for something to happen.







expert lecture on stay secure online

Industry Institue Interaction Committee had organized an expert lecture on stay secure online for the staff members of all the 3 departments across:

The session included the following discussion areas:

1.Importance of Online Security

2.Common Cyber Threats

3.Best Practices for Staying Secure Interactive Session:

4. Identifying and Mitigating Risks

5.Student Project Ideas

Project ideas:

Phishing Awareness Campaign Secure Password Generator

Cybersecurity Awareness

Website/App Security Audit







One-Day Workshop on Cybersecurity and AI Tools to Enhance Productivity

Vidyalankar Polytechnic, Staff Development Committee conducted One-Day Workshop on Cybersecurity and Al Tools to Enhance Productivity on 18 Nov 2024.Mr. Monu Shetty, Partner, Chief Operating Officer, Axenous (IT Service Company), Chief Technology Officer, Maximus Technolabs (Training Institute) delivered session.







Entrepreneurship and Skill Development Events





Activity Name: Case Study – Successful Start up

Date of activity :24/08/2024 No. of Attendees: Students: 42

Staff: 03

This activity was conducted for final year students showcasing case studies of successful startups to provide students with practical entrepreneurial insights.

The purpose of this activity was to expose students to the start up environment, learn about the company's journey, and gain insights into the world of entrepreneurship.

Each presentation was followed by a Q&A session where students have discussed about the challenges these startups faced and the ways they overcome them to become successful



Activity Name: Avenues for Women empowerment through

Entrepreneurship

Date of activity:10/10/2024 No.of Attendees: Students: 51

Staff: 03

This workshop aimed to equip students with knowledge, skills, and motivation to contribute positively to the empowerment of women and promotion of gender equity. Topics such as understanding Gender Equality, Women's rights, Leadership and self-empowerment, breaking stereotypes, advocacy and social changes were highlighted. During this session, a video on inspiration and motivation was shown to the students which were very effective.



Activity Name: Entrepreneurship Orientation Program for

First Year Students

Date of activity: 19/10/2024 No.of Attendees: Students: 220

Staff: 03

The program aimed to introduce students to the world of entrepreneurship, inspire them to consider it as a career path and provide them with the basic knowledge and resources to get started.

Challenges and rewards of starting a business were dis-

Students actively participated in the Q&A session, asking questions about product development, funding, and navigating the start-up ecosystem.



Activity Name: Workshop on Design your future in Entrepre-

neurship

Date of activity:10/11/2024 No.of Attendees : Students : 42

The objective of this session was to inspire and guide students towards exploring entrepreneurial ventures and cultivating an entrepreneurial mindset.

This workshop has provided valuable insights and advice to the students on identifying business opportunities, developing a business plan, and securing funding. The activities generated significant interest among students, with enthusiastic participation

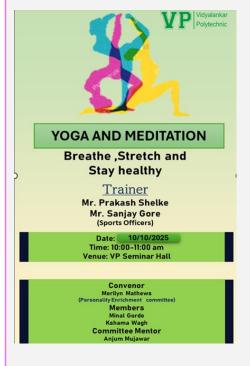
Personality Enrichment Events







The session commenced with an engaging interaction as the speaker posed thoughtprovoking questions, immediately capturing the students' attention. Their active participation demonstrated keen interest, responded enthusiastically throughout the discussion. The speaker skillfully addressed key aspects of critical thinking, particularly emphasizing how it enhances communication skills. A focal point of the session was distinguishing between statements of fact and opinion, a topic on which the speaker provided clear explanations and illustrative examples. Students responded attentively to these examples, confidently identifying whether statements were factual or opinion-based. This interactive and insightful session greatly enriched their understanding of critical thinking in communication







Yoga postures, Pranayama and meditation are effective techniques to release stress. Meditation is relaxation and rejuvenates the body and mind. Asanas starting with warming up and stretching up b y the students were followed by a Padmasanas, Sukhasan, Tadasana, Bhujang Asana and ending with Shavasana. Exercises for relieving stress, reducing joint pain and enhancing the flexibility of the back were also done for the benefit of the students.An interactive session between the students and the teachers took place where students prepared for presentation on importance and yoga and its history. The queries of the students were addressed

satisfactorily. In the present day when students face stress, tension, fear, etc., simple 'asanas'can help dispel these and improve the quality of life.

Higher Education Events





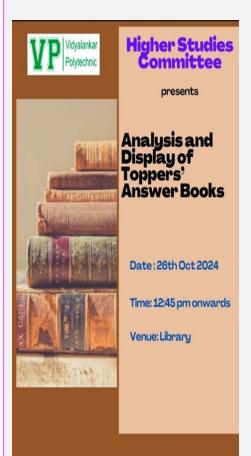


A Webinar on "Career Options after Diploma" was held at Vidyalankar Polytechnic on 24thOct2024, delivered by Prof. Sudhir Lawand for fifth semester students.

The students were given information about different courses available after diploma in India as well as in abroadthat are present in different foreign universities (USA/UK). Apart from B. E. many other study options are available which the students are not aware about. This webinar provided students an overview of different career options after diploma.

Information related to job opportunities in different fields that is government and private sector was provided to students. Also, information related to different start-ups were shared.

This webinar will help the diploma students to identify their interest and select their career in the respective field. Event was attended by 198 students.







An Activity on "Analysis and display of previous years Toppers Answer Books for Performance Enhancement" was held in Library of Vidyalankar Polytechnic from 26/10/2024. This activity was conducted for all students of Vidyalankar Polytechnic.

The objective of this activity was to ensure that students go through the answer books written by faculties and toppers students of Vidyalankar Polytechnic to get insights on how to enhance and improve the overall writing skillsduring board examination.

This activity was attended by 354 participants.

Cultural Sports and Hobby Club Events



Vidyalankar Polytechnic Cultural Committee has organised an activity "Killa Making" on 29 Oct 2024. This activity was conducted in college campus. Sinhagad means Lion's Fort, and it is on a hill among the Sahyadri Mountains. Parts of this magnificent fort are in ruins, but the fort still attracts many adventure enthusiasts. It's known for its historical importance and architectural brilliance as well. It Is also known as Kondhana Fort, and it has witnessed several battles, including the 1670 Battle of Sinhagad. Therefore, Sinhagad Fort Pune is a must-visit tourist destination.







Vidyalankar Polytechnic, Cultural Committee organise.

an art exhibition on 16 Oct 2024. is a great way for artists to showcase their work to a broader public.

Art exhibitions are not just about displaying masterpieces. They also allow artists to share ideas, demonstrate their skills, and promote the gallery or museum they are associated with. They provide an excellent venue for art appreciation and can inspire public engagement and a sense of wonder about the world around us. Moreover, they are often free to attend. This is the reason why art exhibitions are great ways to introduce yourself to different types of art and help the general public to appreciate them

Cultural Sports and Hobby Club Events







Vidyalankar Polytechnic Cultural Committee has organised an activity "Killa Making" on 29 Oct 2024. This activity was conducted in college campus. Sinhagad means Lion's Fort, and it is on a hill among the Sahyadri Mountains. Parts of this magnificent fort are in ruins, but the fort still attracts many adventure enthusiasts. It's known for its historical importance and architectural brilliance as well. It is also known as Kondhana Fort, and it has witnessed several battles, including the 1670 Battle of Sinhagad. Therefore, Sinhagad Fort Pune is a must-visit tourist destination.







Vidyalankar Polytechnic, Cultural Committee organise garba day on 16/10/2024.Lets get together then, to celebrate the spirit of Feminine Deities and to bring with us fun and enjoyment like no other



Value Added Courses



Department of Computer Engineering and Information Technology

Value Added Courses

On

- Image Processing
- Cyber Security
- Scripting Languages



Scripting Languages:

Duration: 07/07/2024 to 13/07/2024

Instructor: Mr. Vijay Patil

Mr. Prasad Koyande Ms. Manisha Pokharkar

Total Number of Students Enrolled: 103

Application Development: Face detection, Vehicle Detection, and adding various effects on image using

OpenCV (Image Processing):

Duration: 01/07/2024 to 06/07/2024

Instructor: Ms. Yogita Khandagale

Ms. Archana Gopnarayan

Total Number of Students Enrolled: 50

Defensive Cyber Security:

Duration: 01/07/2024 to 13/07/2024 Instructor: Ms. Sushama Pawar

Ms. Shonal Vaz

Total Number of Students Enrolled: 50

State Level Quiz Competition Event







Research and Innovation Event-Tech Talk Series



Cybersecurity Essentials

Mr. Aftab Khan

(Cybersecurity Analyst at Hacktify Cybersecurity)



IIC and its various initiatives for development of Innovations

Dr. Seema Kolkur

(Dean Ph.D Program, Dean Internship Program, Innovation Ambassador, IIC-MIC)

Events-Alumni Sports Day

Organized meet on 07th December 2024 Participants- 85 + Faculty Members





Internal Hackathon







Techspardha 2024







Volunteering Committee Events











