VP-Connect

DEPARTMENT OF INFORMATION TECHNOLOGY
1ST JANUARY 2018 TO 30TH JUNE 2018

Vidyalankar Polytechnic

VP-Connect

Department of Information Technology

1st January 2018 to 30th June2018

Institute Vision

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

Institute 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 Information Technology

Vision

To become a leading center in the domain of Information Technology where learners are introduced to the concepts and implementation of technologies.

Mission

- Encouraging academic excellence and a passion for learning through the use of learner-oriented teaching methodologies.
- Providing an environment that inculcates ethics and effective soft-skills and focuses on the development of learners.
- Establishing and reinforcing a symbiotic institute-industry interface so that learners can gain exposure to real-life applications of Information Technology

What's Inside

Program Educational Objectives (PEOs)

- **PEO 1:** To provide students with a sound foundation in Information Technology theory and practice to analyze, formulate and solve engineering problems.
- **PEO2:** To develop ethics and life skills for the benefit of social welfare.
- **PEO3:** To enable students to gain exposure to actual technological requirements of the industry through educational visits, conferences and seminars.

Program Specific Outcomes(PSOs)

- **Programming skills:** Ability to design and develop different applications based on various software, databases, and multimedia and web designs.
- **Networking and security skills:** Design and implement the concept of networking and security to build real time application with professional ethics and principles.
- **Mathematical concept:** Ability to apply mathematical methodologies to solve computational task using appropriate data structure and suitable algorithm.
- **Professional skills:** Communicate effectively in professional and social scenario with zest for higher education and entrepreneurship by engaging in lifelong learning

Vidyalankar Polytechnic

VP-Connect

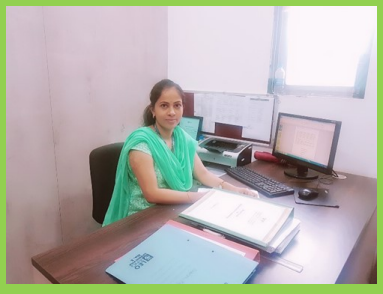
Department of Information Technology

1st January 2018 to 30th June2018

Program Outcomes

- **Basic knowledge:** An ability to apply knowledge of basic mathematics, science and engineering fundamentals to solve problems related to applications of computers and communication services.
- **Discipline knowledge:** An ability to apply Information Technology knowledge to design and develop an application in the field of Information Technology.
- **Experiments and practice:** An ability to Plan and perform experiments, practices and use the results to solve Information Technology related problems.
- **Engineering Tools:** An ability to apply appropriate Information Technology related techniques and tools with an understanding of limitations.
- **The engineer and society:** An ability to access social, health, safety, legal and cultural issues and the consequent responsibilities relevant to practice in the field of information technology.
- **Environment and sustainability:** An ability to apply Information Technology related engineering solutions for sustainable development practices in environmental context.
- **Ethics:** An ability to apply ethical principles, maintain responsibilities and follow the norms as an individual.
- **Individual and team work:** Function effectively as a leader and team member in diverse or multidisciplinary teams.
- **Communication:** An ability to communicate effectively in the professional environment.
- **Life-long learning:** Engage in independent and life-long learning along with the technological changes in the Information Technology and allied industry.

From HOD'S Desk –Prof Yogita Jore



It gives me immense pleasure in welcoming all the students to the new semester of the academic year 2017-18 of Information Technology Department, Vidyalankar Polytechnic. I wish a warm welcome to the students who have taken admission this year.

Entrepreneurship Development Committee organized Trade Fair

Vidyalankar Polytechnic "**Entrepreneurship Development Committee"** had organized an activity called "Food Stall in Trade fair" on 23rd of January 2018. The activity was conducted in the VP Campus. Vidyalankar staff as well as students got an opportunity to taste the delicacies crafted by VP culinary artists. All the food items were reasonably priced to ensure that everyone gets an opportunity to taste them.

.....

Project Quality Assurance Committee organized Project exhibition (V-Technovation)

Vidyalankar Polytechnic, **Project quality assurance committee** has successfully organized the project exhibition of final year students to demonstrate their inventive concept. Each group explained their project to the judges. In this exhibition judges selected the best project based on the innovation, presentation & domain knowledge.

Quote
Action is the fundamental key to success

Our Toppers

First Year

Khan Hassan Mohd (88.63%)

Shah Shreyas (87.88%)

Dakhway Aman (86.75%)

Second Year

Khedekar Shraddha (89.67%)

Niraj Shirkar (87.56%)

Patanwala Furkan (87.44%)

Industry Institute Interaction Committee Organized Industrial Visit to I-MEDITA (Pune) on 20/02/2018

The visit has been organized to I-MEDITA which is a Cisco Networking Labs located at Pune.

For organizing the visit the committee had interaction with Piyush Kumar (Executive | Training and Development) and due permission was obtained for the above visit.

The motto of the industrial visit was to give practical insights about networking industry and to discuss how they can start their high flying careers in networking domain.

Here are some Key Highlights of Industrials Visit:-

- Made Students Aware with Industry Practices.
- Role of Network Engineers in companies like Airtel, Vodafone, HCL, Accenture, etc.
- Increase Practical Awareness of Networking and Big Data Hadoop Industrial sectors among students.
- Acquaint students with interesting facts and breath-taking innovations in Networking, Network Security and other networking domains.
- Information shared on the key certifications involved in Networking and their importance in industry.
- Explanation of how all the networking devices and Data Centers Works and their role in Industry.
- Few Hands on Practical were also shown to students.

Class Toppers

Third Year

Patel Ritu (90.13%)

Patel Riya (89.63%)

Shelke Ankita (88.50%)

Parents Interaction Committee organized
Scholars Day

The Parent Interaction Committee of Vidyalankar Polytechnic organized **Scholar's Day** to felicitate toppers of MSBTE Winter 2017 exam on 20/01/2018.

……...

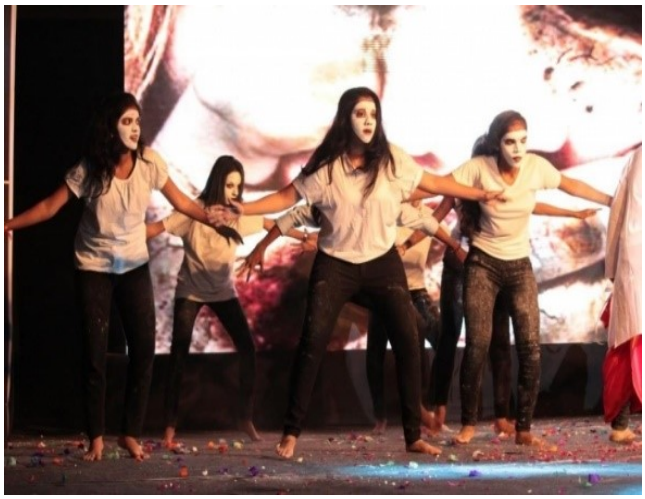
Inside Story

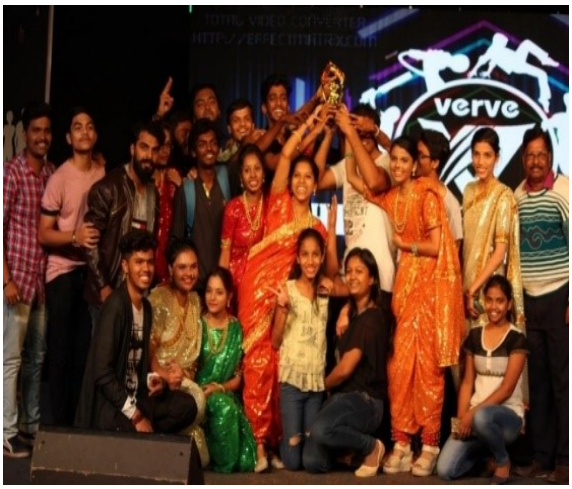
The objective of the program :
Motivate and appreciate the achievements and academic excellence of students.

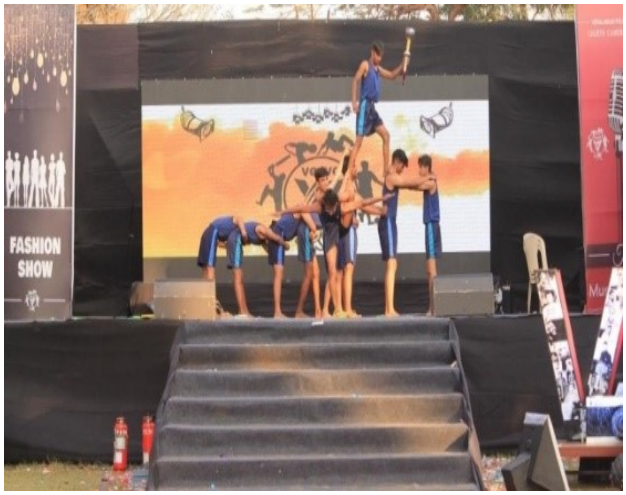
Program highlights:
The program witnessed an overwhelming response from parents and students. It progressed with the address of HOD's of respective program followed by felicitation of students.

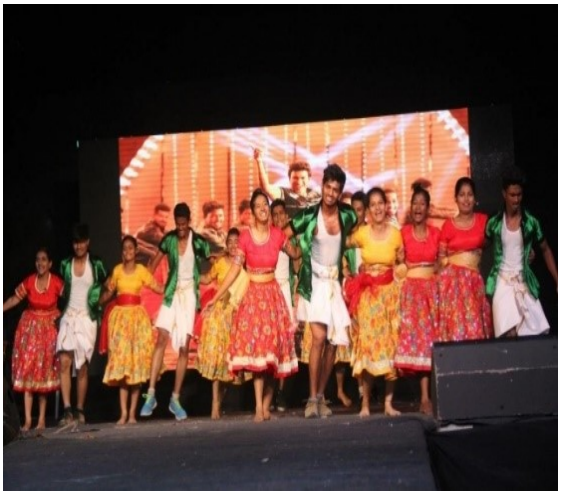
The wholehearted participation of parents included spontaneous address by some of the parents who appreciated the efforts of institute and teachers in bringing out the best in their wards.
The program concluded with principal Prof. Ashish Ukidve's interaction with parents. This was followed by vote of thanks and refreshments.

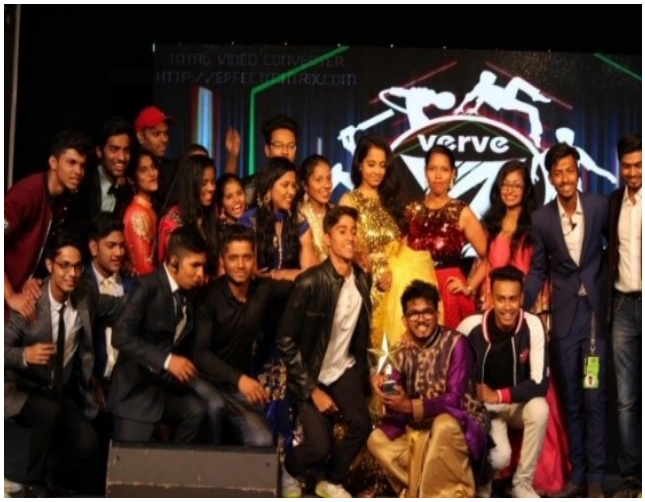
EXTRA CURRICULUM ACTIVITIES

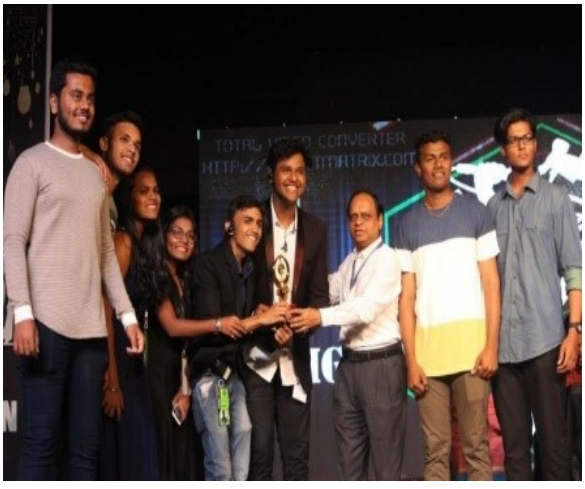












Student's Article On — *" NANOTECHNOLOGY"*

The paper brings in an overview of the nanotechnology covering major aspects of the said concept . We live on a scale of meters and kilometers (thousands of meters), so it's quite hard for us to imagine a world that's too small to see. Amazingly, scientists have developed electron microscopes that allow us to "see" things on the nanoscale and also manipulate them. The content also describes some interesting examples to help better visualize the nanoscale .

This is all very interesting and quite impressive, but what use is it? Our lives have some meaning on a scale of meters, but it's impossible to think about ordinary, everyday existence on a scale 1000 times smaller than a fly's eye. We can't really think about problems like AIDS, world poverty, or global warming, because they lose all meaning on the nanoscale. Yet the nanoscale—the world where atoms, molecules (atoms joined together), proteins, and cells rule the roost—is a place where science and technology gain an entirely new meaning . Once we understand nanoscience, we can do some nanotechnology: we can put the science into action to help solve our problems. Lots of substances behave very differently in the world of atoms and molecules. For example, the metal copper is transparent on the nanoscale while gold, which is normally unreactive, becomes chemically very active. . In other words, materials can have different physical properties on the nanoscale even though they're still the same materials! On the nanoscale, it's easier for atoms and molecules to move around and between one another, so the chemical properties of materials can also be different. For example: Skin care products use nanoparticles to deliver vitamins deeper into the skin. Nanotechnology is delivering in both, expected and unexpected ways on its promise to benefit society. The kinds of products that could be built will range from microscopic, very powerful computers to super strong materials ten times as strong as steel, but much lighter, to food or other biological tissue. The new concepts of nanotechnology are so broad and pervasive, that they will influence every area of technology and science, in ways that are surely unpredictable.

Conclusion:

Though this Technology at Nanoscale is in its building stages, it promises a bright future which still remains a dream as on today. Many developed countries are spending big money in the research in the field of nanotechnology which has its branches spread over any identifiable area of study today. Nanotechnology can enhance the present day achievements in various fields by many scales. Nanotechnology despite all these advantages is also seen to cause few problems especially concerned with the health of people working with things under nanoscale. Nanotechnology is sure to define a new trend of life with gadgets that can fit onto or into any anything and make the impossible possible.

- RITU U. PATEL

RIYA U. PATEL

Paper Presentation on Quick Ambulance

(Advanced solution for Ambulance System, ***Real Time Processing*** *)*

The application proposed in this paper is an advanced solution for ambulance system and hospital management system. The technology behind this is Android, which helps to develop android based applications. Using Firebase, the registered data is stored in database (firebase.com). The firebase shows the date in tabular form. This project was developed to drive patients to nearest hospitals, information of blood donation camps and finding nearest hospitals. This project has two interfaces. The first is driver login, which will be used by the ambulance driver. The second is customer (patients), which will be used by patients to request ambulance. Registration details will be stored in firebase

Quick ambulance is a basic and a user-friendly system wherein the user can look forward for in case of emergency.

One of the main reason for developing such an application is that there are many emergency cases that occur and people could not seek for help in a faster manner and face difficulty in reaching the nearest hospital.

Quick ambulance is a smart way for providing help and facilities to the victims that face such problems Also, the application is user friendly so a normal android user can also use this application.

-Rohit Yeshwant Jadhav

Ajinkya Hanmant Jadhav

Rohini Deshmukh

Swati Lokare

FACULTY MEMBERS