

PES's MODERN COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING



HOD 's Message

The Department is committed to nourish its students in to highly skilled and proficient engineers and it has produced hundreds of professionals and has established a name for itself in the country and abroad. "It gives me pride and pleasure to introduce "The Computer Express" the departmental News Letter for the year 2018-19 term-II and I hope you will enjoy exploring our contributions in technical, non technical activities and achievements in the field of Computer Engineering".



Prof. Dr. Mrs S.A. Itkar

Our Vision

"To achieve excellence in the field of computing through quality education."

Our Mission

- ⇒ To develop promising professionals in the field of computing.
- ⇒ To provide exposure to emerging technologies and inculcate ethics.
- ⇒ To strengthen association with alumni and industry.

New Innovation of 2018 : 3-D Metal Printing

While 3-D printing has been around for decades, it has remained largely in the domain of hobbyists and designers producing one-off prototypes. And printing objects with anything other than plastics—in particular, metal—has been expensive and painfully slow.

In the short term, manufacturers wouldn't need to maintain large inventories—they could simply print an object, such as a replacement part for an aging car, whenever someone needs it.



In the longer term, large factories that mass-produce a limited range of parts might be replaced by smaller ones that make a wider variety, adapting to customers' changing needs.

The technology can create lighter, stronger parts, and complex shapes that aren't possible with conventional metal fabrication methods. It can also provide more precise control of the micro-structure of metals. In 2017, researchers from the Lawrence Livermore National Laboratory announced they had developed a 3-D-printing method for creating stainless-steel parts twice as strong as traditionally made ones.

Also in 2017, 3-D-printing company [Markforged](#), a small startup based outside Boston, released the first 3-D metal printer for under \$100,000. Another Boston-area startup, [Desktop Metal](#), began to ship its first metal prototyping machines in December 2017. It plans to begin selling larger machines, designed for manufacturing, that are 100 times faster than older metal printing methods.

The printing of metal parts is also getting easier. Desktop Metal now offers software that generates designs ready for 3-D printing. Users tell the program the specs of the object they want to print, and the software produces a computer model suitable for printing.



Modern technology has become a total phenomenon for civilization, the defining force of a new social order in which efficiency is no longer an option but a necessity imposed on all human activity.

(Jacques Ellul)

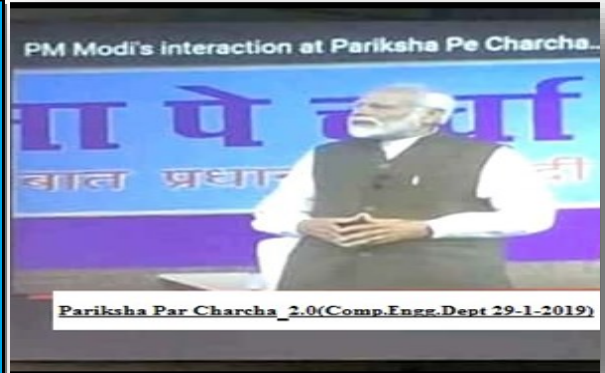
Activities At Department

Pariksha Par Charcha 2.0 by Hon'ble Prime Minister, Mr. Narendra Modi

The Live Addressing by Hon'ble Prime Minister Narendra Modi to students, titled "Pariksha par charcha 2.0" was broadcasted in Computer engineering department.

Hon'ble Prime Minister Narendra Modi interacted with 2,000 students, teachers and parents from across the country at his "Pariksha Par Charcha 2.0" town hall at Talkatora Stadium.

Through the healthy discussion with Hon'ble Prime Minister Narendra Modi, he Encouraged students, teachers and also parents to have broad mindset towards examinations by saying "Our learning cannot be reduced to exams only. Our education must equip us to face various challenges of life as well"



Workshop on "Patent filing Process".

- **Day & Date :** 16th February, 2019 (Saturday).
- **Session conducted by:** Ms. Ankita.A. Nagarkar

- **Summary report:**

The session was attended by 50+ students and Faculty members of department.

What is a Copy right, IPR. How to file Patent?

How to verify innovative our work is innovative for patent registration.

Real life project done by Ms. Ankita Nagarkar and patent registered on her name.

- **Outcome:**

Every participant

- 1] Understand procedure for Patent filing Offline and Online.
- 2] Know how to verify our work is innovative for patent registration.

- **Relevance to PO's and PSO's:** PO1, PO6, PO12, PSO3.



Activities At Department

Workshop on "Python Programming" under VVM and CSI ACTIVITY".

- **Day & Date :** 28th February and 1st March 2019
(Thursday & Friday).
- **Session conducted by:**
 - 1] Mr.Yogeshwar Shukla.
 - 2] Mr.Guarav Bhokare.
 - 3]Mr.Ashish Ayyaer.
- **Summary report:**

Two days' workshop is organized by Department of Computer Engineering, PES's MCOE Pune. Under Vidyarthi Vikas Mandal Savitribai Phule Pune University In association with CSI. The session was attended by Second Year students and faculties of Computer Engineering and IT Department. The speaker has delivered following Concepts Hello world Program, Object Model of Python, Assignment statement, Branching Statements, Looping Statements, Container data types of python, File handling in python, Writing and calling Functions on python and implementation of Basic command in python (cp command, wc command). Session was Interactive and Students have enjoyed hands session delivered by all resource person Mr.Yogeshwar Shukla, Mr.Gaurav Bokhare .
- **Outcome:** Every participant able to
 - 1)Students are able to illustrate use of python programming over other programming language.
 - 2)Students are able to learn File handling functions, basic command, various Statements in python.



Activities At Department

Workshop on "Computer graphics using Open GL".

- **Day & Date :** 18/02/2019 to 27 /02/2019
- **Session conducted by:**
- Mr. Gaurav Bhokre (S/ W Developer, Void Star India Solutions Pvt. Ltd.)
- **Summary report:**

FOSS Club of Modern College of Engineering Pune-05, has organized workshop on Computer graphics using Open GL. Mr. Gaurav has explained in history, present & future of computer graphics. They briefed about OpenGL as a standard, framework, windowing, pixels, rasterization process, framebuffers and GPU. They gave hands on for programs like colored window, OpenGL primitives, 2D & 3D drawing.

- **Outcome:**
Students will able to explain OpenGL framework and develop small 2D & 3D animation using OpenGL.



Visit to AnandDham Old Age Home

- **Date & Day:** 18 February 2019, Monday.

- **Summary of the Activity/Event in 4-5 lines:**

This was the second visit to same Old Age Home. Third Year Students participated in this Social activity and got the opportunity to serve and to interact with the people at "Ananddham Vrudhashram".

Students were first told about the Ashram's history and today there live around 15 of aged people under the roof of "Ananddham Vrudhashram".

Students acted, played Antakshari with all the Grandpa's and Grannies, sang songs and spent some quality time.

That was the most worthwhile time ever spent by the students. After the small celebration and the interactive session, students along with the staff co-ordinator distributed fruits and some eatables required for them.

All the students shared their experiences after the session. 25 students from SE-A & SE-B have attended the session.

- **Outcome:**

The most inspiring thing was that in spite of facing so many hardships those aged people have brave hearts and are still trying to find endless ways to be happy to live.



M-PULSE 2018

