

PES MODERN COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
NEWS LETTER 2016-17 , Term-I



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.

Program Educational Objectives

The graduates of Computer Engineering Department will be,

- PEO1: Capable of solving real world problems.
- PEO2: Capable of working with multidisciplinary projects.
- PEO3: Capable to adapt to changing technologies and life management skills.
- PEO4 :Able to exhibit professional and ethical responsibilities.

The Department’s newsletter “The Computer Express” facilitates our students and faculty members to publish their activities, achievements and efforts. It provides a motivation to the staff students to achieve their goals. “The Computer Express” reflects the achievements of our students and the faculty members. It is circulated to all students and faculty members containing information including placements, events, paper presentations, conferences etc. It also focuses on academic achievers University and other competitive examinations.



Dr. Mrs K.R. Joshi

Principal's Message

You are getting your education in an institution where there is healthy atmosphere for your overall development and many good things that shall help you in your future and this is only because of co-operative culture of students, teachers, faculty members and the management of institution.

The aim of this institute is to develop not just top quality engineers but also well developed persons. Our motto therefore is "the joy of excellence in a world of high technology".



Dr. Mrs S.A. Itkar

HOD 's Message

"It gives me pride and pleasure to introduce the Department and its News Letter and I hope you will enjoy exploring our contributions in technical, non technical activities and achievements in the field of Computing Engineering". Computers are ubiquitous in our lives and so are Computer Engineers. Computer Engineering Department was started in 1999, The Department of Computer Engineering, with intake capacity of 60 (first shift) and 60(second shift)in UG program is committed to nourish its students in to highly skilled and proficient engineers. ."

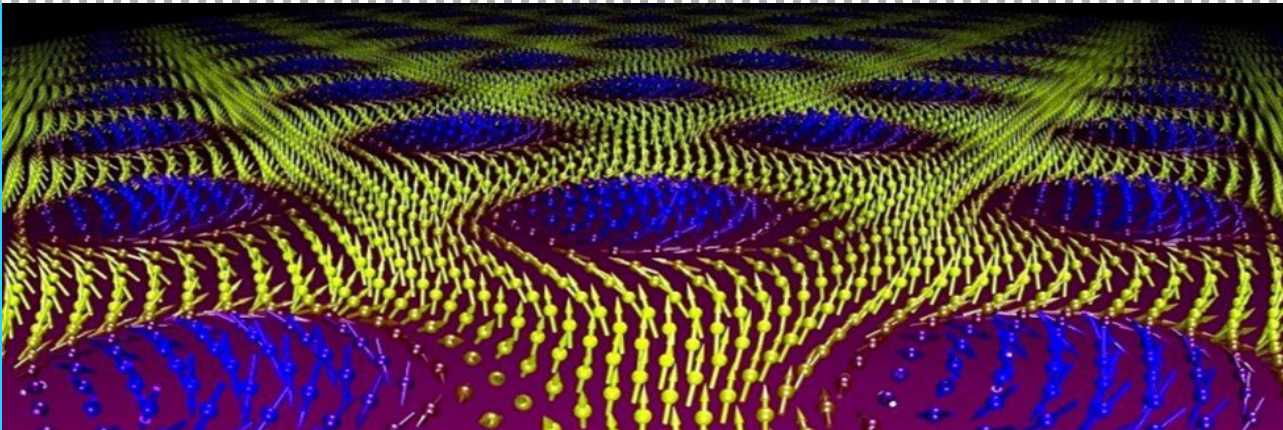


Department of Computer Of Engineering has been selected as a GPU Education Center based on commitment to advancing the state of parallel education using GPU Computing and/or CUDA C/C++ by NVIDIA,

As GPU Education Center qualifies Department for the following benefits:

- GPU teaching kit consisting of (1) K40 and (2) Titan X GPUs as part of this award.
- Access to NVIDIA technical team for support when needed.
- Access to 100 GPU programming labs available at nvidia.qwiklab.com for free, these labs are self-paced and hosted in the cloud, a student only needs a web-browser and internet access to participate.
- Access to the GPU Educators Program providing teaching materials and real GPU Resources for use in university classrooms and labs.
- Membership is free and automatically approved for centers.
- NVIDIA-certified slides, hands-on lab exercises, and course content for students.

Skymions" For Data Storage



Researchers in Germany have used skyrmion tiny magnetic vortices that can be imagined as two dimensional knots in which the magnetic moment rotates about 3600 degrees within a plane for the first time to store data. This technology could be used to create hard disk with higher densities and faster data transfer speeds.

What Are Skymions?

Skymions that consist of a small number of atoms were first identified about 80 years ago and have been the object of intensive research in recent years. They are named after a British particle Physicist, Tony Skyrme. This meant the existence or non-existence of a skyrmion could be assigned the digital bit states "1" and "0", the basis for information technology. In a Gist: In their experiment, the researchers used a two atomic layer thick film of palladium and iron on an iridium crystal. They observed the skyrmions, with a diameter of a few nanometers, with a scanning tunneling microscope.

The skyrmions were then manipulated with a small spin polarized current from the tip of the microscope. The research team has demonstrated the feasibility of skyrmions in data storage. This new technology can also be introduced in computers, tablets and smart phones.

Technical Activities At A Glance

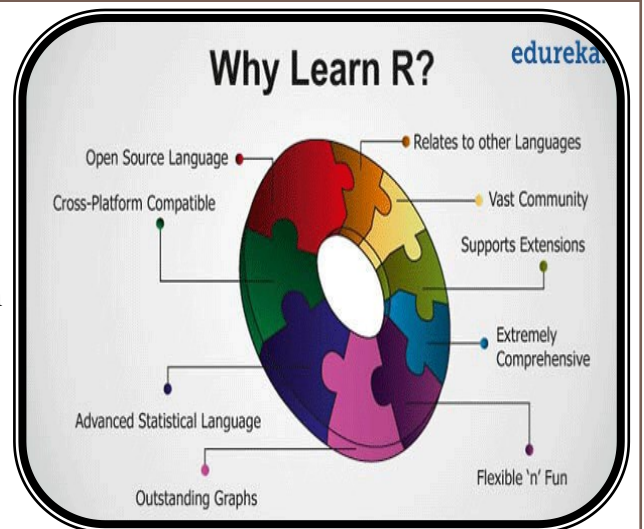
Mentorship for Success Abroad A Session by Mr. Abhay Bakshi , Agility Solutions USA was conducted which enlighten students about the Mentorship for success abroad. Brief description of ecosystem of Abroad, traditions, beliefs, culture & nation's founding principles. Opportunities that are available in various fields. Importance of success in life with real time examples. Scholarship schemes and financial assistance which are available if one wishes to study Abroad. Academic and Career opportunities. after higher studies.



“What is R???”

R is a language and environment for statistical computing and graphics. It is a GNU project which is similar to the S language and environment which was developed at Bell Laboratories (formerly AT&T, now Lucent Technologies) by John Chambers and colleagues. R can be considered as a different implementation of S.

There are some important differences, but much code written for S runs unaltered under R. R provides a wide variety of statistical (linear and nonlinear modelling, classical statistical tests, time-series analysis, classification, clustering, ...) and graphical techniques, and is highly extensible. The S language is often the vehicle of choice for research in statistical methodology, and R provides an Open Source route to participation in that activity. One of R's strengths is the ease with which well-designed publication-quality plots can be produced, including mathematical symbols and formulae where needed. Great care has been taken over the defaults for the minor design choices in graphics, but the user retains full control. R is available as Free Software under the terms of the Free Software Foundation's GNU General Public License in source code form. It compiles and runs on a wide variety of UNIX platforms and similar systems (including FreeBSD and Linux), Windows and MacOS.



Aptitude Session conducted by Bakliwal Tutorials on 02-07-2016, Saturday To improve the students performance for aptitude tests during placement drives, Around 60 students had participated actively in this session. Mr. Bakliwal introduced himself at the start of the session and started the session by conducting an aptitude test having 8 questions for 25 minutes. At the end of the test, Mr. Bakliwal discussed all the questions of the test, by giving tips on how to solve and explained the common mistakes that were made by students.



Algorithm of Success

```
while(noSuccess)
{
    tryAgain();
    if(Dead)
        break;
}
```

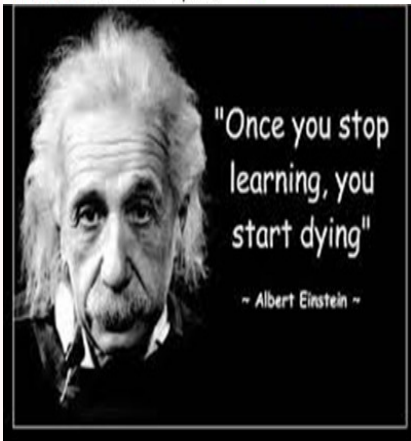


FOSS CLUB – “BE OPEN”

Free and Open Source Software at department was inaugurated by **Mr. Yoeshwar Shukla, CEO and Founder**, Core Programming Academy. He discussed about the Development and Deployment of various FOSS Tools, Technologies, Products, Architectures and Solutions in various application domains.

Some benefits offered by FOSS tools are:

- Developers can modify the code and adapt it to their personal needs.
- FOSS tools have a lot of online support as many tools are developed by a community of developers over the Internet. Hence, the bug fixing is also very quick.
- FOSS tools provide a lot of scope for innovation as the source code is available for modification.



Technology won't replace teachers...

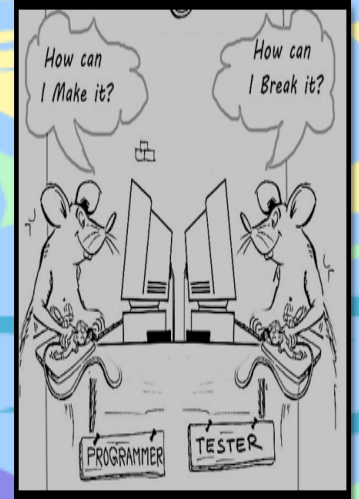
...but **teachers who use technology** will probably replace teachers who do not.

Session on Research Methodology by Prof. Dr. Pramod Patil from Dr. D. Y. Patil Institute Of Engineering, Pimpri was conducted in Department on **30th July 2016** at Seminar Hall. ME Students and Staff attended the session and The participants learned about use of various techniques in Research Process. They were also guided for Research Problem Identification, Research opportunities and Mathematical Modeling.



Testing Session by Ms. Jaimini Majali (Alumnus)

The session on **Development vs Testing** was conducted on 6th August 2016, Saturday. The speaker shared the knowledge of development environment, business logic and deployment phase. She also enlightened students about Agile development. A debate was conducted on Testing vs Development. Few funny videos were played for better understanding of the topic. Students were able to understand the importance of development and testing in Software industry



Life Skills Management by Subodh Deshmukh

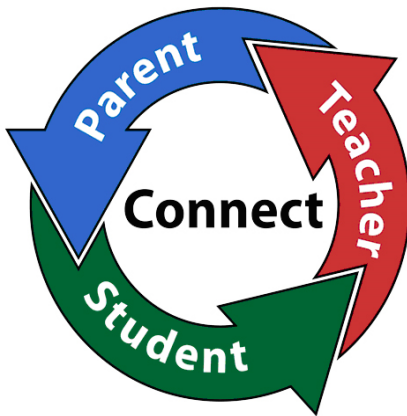
A very interactive session for improving the interview skills of students also making them aware of their Unique Selling Point (USP) was conducted on 1st July 2016 by Mr. Subodh Deshmukh, Life Skill Trainer Associates, Hyderabad. The session lasted for 5 hours. Ideal Interview behavioural and communication skills were told by speaker. During this session, an aptitude test was conducted. A small activ-



Good Manners

- 1 Say hello/goodbye
- 2 Say please/thank you/excuse me
- 3 Be on time
- 4 Wait for your turn
- 5 Sit properly
- 6 Ask before using
- 7 Ask before moving
- 8 Don't interrupt or yell out
- 9 Don't swear
- 10 Don't embarrass others

Parent's Meet -2016-17 Term-I



PTM Was organized on 23rd July 2016, Saturday

Dr. Prof. S. A. Itkar, Head of the department explained how parent-mentor meet can offer the best possible learning environment for the students. She also told importance of Technical clubs, Certification Courses and the contribution of Social, ED cell towards Students.

The speech was followed by discussion of parents with HOD about student matters. Parents were seen to be very enthusiastic to know the details about various technical activities and resources provided to students. They were satisfied with the facilities provided to the students .



" THE COMPUTER EXPRESS "

TEAM

Staff Co-ordinator :

Mrs. Deepti Nirwal

Student Co-ordinators:

Pranav Batwal

Designer:

Maurya Manish

LATEX

One Days workshop on LATEX was organized on 16th July, 2016 conducted by Mr. A. S. Rumale Asst. Professor at SVPM's college of Enineering, ,Malegaon-bk under CSI student chapter. S. E. And T. E. students attended the session and understood importance about LATEX in research documentation. They were also guided to write research paper, project report and presentation in LATEX.



Our Toppers!!!

Hard Work pays off and you have proved it!

Good Going and wish you all the best !!!



**S.E. : PARITOSH
MEDHEKAR
Percentage : 81.06%**



**T.E. : Pranita Kumbhar
Percentage : 72.73%**



**B.E. : VARAT KALPANA
Percentage : 77.1%**

Farewell!

2016



With this “The Computer Express Team” along with all staff members would like to conclude that department regularly works with the students to build their personality that will help them to become successful Computer Professionals !!!

Disclaimer

The information contained in this news letter is for general information purposes only. The information is provided by students and staff of department and while we endeavor to keep the information up to date and correct, we make no representations or warranties of any kind, about the accuracy, reliability, suitability or availability with respect to the news letter or the information, products, services, or related graphics contained for any purpose.