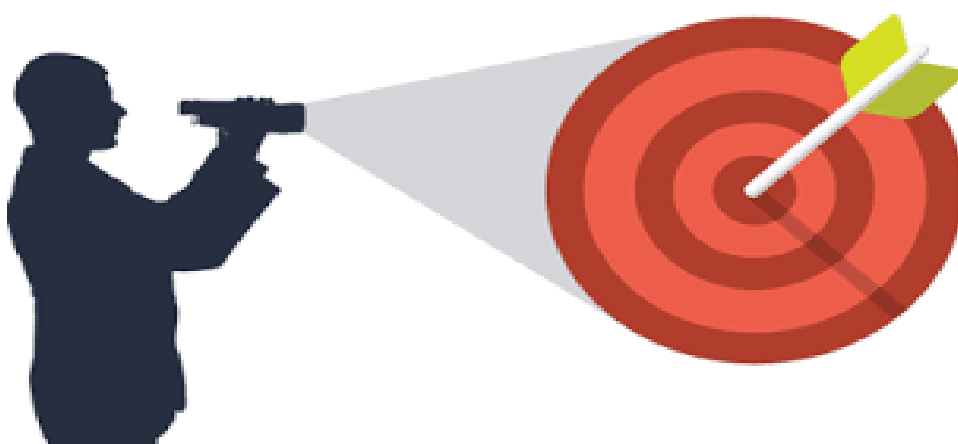


**INSIDE THIS
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VISION

“To provide updated technology in computer engineering to Fulfill the needs of industry and society”



MISSION

- **To impart technical knowledge and skills by involving students in educational activities.**
- **To enable students to be entrepreneurs enhancing interaction between institute and industry.**
- **To nurture moral and professional values to build up society and nation.**



HOD's Message.....

Welcome and best wishes to all the friends of the Department who receive this Newsletter. It has been an interesting and busy semester for members of the Department. It gives me great opportunity to present the first issue of "Newsletter". This internal newsletter is one of the ways in which we can disseminate information on the life of the Department. The past & current semester was full of various activities by the students and faculty in academic, co-curricular, extra-curricular as well as research & developments. As you read through the pages you will realize, that the Department had a particularly successful semester. I would like to thank all my colleagues for their tireless efforts to help the department progress at a very steady pace.

Prof. Jadhav P.D.

HOD

Computer Engineering Dept



Editor's Message.....

We are presenting you with the first issue of our newsletter. Our intention is to put out two issues per year, one in the end of February and the other at the end of November. The success of this newsletter depends on your response. I would appreciate your feedback.

Prof. Bhagat C.B.

Lecturer

Computer Engineering Dept

FACULTIES



Prof. Jadhav P.D.
HOD



Prof. Rathi S.R.
Lecturer



Prof. Pathan A.B.
Lecturer



Prof. Bhagat C.B.
Lecturer



Prof. Khaire R.B.
Lecturer



Prof. Shinde G.B.
Lecturer



Prof. Deshmukh R.R.
Lecturer



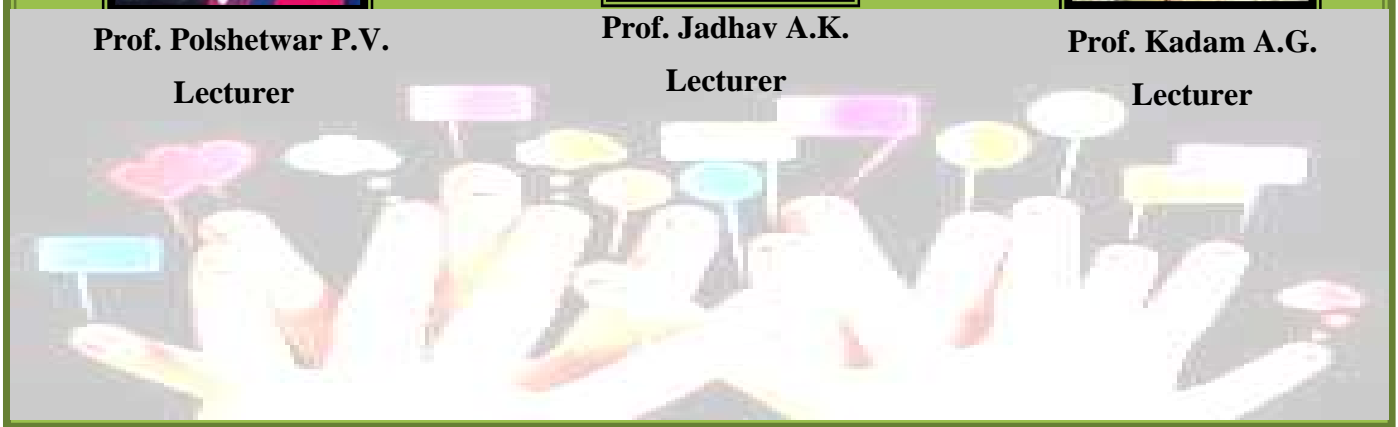
Prof. Polshetwar P.V.
Lecturer



Prof. Jadhav A.K.
Lecturer



Prof. Kadam A.G.
Lecturer



Faculty Training



Pathan Aminkhan Banekhan, Lecturer in Computer Engineering department MGM's Polytechnic Aurangabad. He has attended the Faculty Development Programme (FDP) on "**Techniques for NBA Accreditation Process**" sponsored by MSBTE Mumbai and organised by Government Polytechnic Murtizapur Dist. Akola. He attended the training from 18.12.2017 to 22.12.2017.

The main objective of training was to understand the need of NBA, Cope up with the concept of OBE, Understand the mapping with the variation of input parameters in Teaching – Learning process and enhance the competencies for SAR writing techniques for NBA proposals

Sarika R. Rathi & Rupali R. Deshmukh, Lecturer in Computer Engineering department MGM's Polytechnic Aurangabad. They participated in One week Short - Term Training Program (STC) on "**Cloud computing & virtualization**" Collaboration with Greekslab technologies pvt. Ltd organized by Computer Science & Engineering & Information Technology Department, JNEC, Aurangabad. from 26th -30th June 2017.



The Objective of STC on "Cloud computing & virtualization" are Virtualization plays a very important role in the cloud computing technology, normally in the cloud computing, users share the data present in the clouds like application etc., but actually with the help of virtualization users shares the Infrastructure.



The main usage of Virtualization Technology is to provide the applications with the standard versions to their cloud users, suppose if the next version of that application is released, then cloud provider has to provide the latest version to their cloud users and practically it is possible because it is more expensive. To overcome this problem we use basically virtualization technology, By using virtualization, all servers and the software application which are required by other cloud providers are maintained by the third party people, and the cloud providers has to pay the money on monthly or annual basis.

Poonam V. Polshetwar & Amruta K. Jadhav, Lecturer in Computer Engineering department MGM's Polytechnic Aurangabad. They participated in Three days Short Term Training Program (STC) on "**Internet of Things**" Organized by L&T Institute of Technology, Navi Mumbai. From 11th—12th Oct 2017.



The Objective of STC on "IOT" To get fair idea about Internet of Things applications and architecture models • Have general knowledge on IoT and Applications • Become familiar with the common types of sensors, device protocols and controllers used in IoT • Create IoT applications covering from things to cloud, using sense and control, over many things at a time • Get fair idea about



IOT Platforms • Understand the thinking philosophy for building IOT Systems

Faculty Achievement

Paper Published in National / International Journal/Conference



Prof. Sarika R. Rathi
Lecturer

“Study of NoSQL Data Types with Big Data”

The term „BigData“ explains superior techniques and technologies to capture, store, distribute, manage and analyze petabyte - or terabytes data with 3 Vs. Data is produced from numerous dissimilar resources and can enter in the system at various rates. Big data is practical for data sets where their volume or style is away from the potential of traditional relational databases for capturing, organizing and handing out the data with low-latency. Relational databases were not intended to handle with the scale and quickness challenges that face contemporary applications, nor were they built to take benefit of the commodity storage and handing out power accessible today. NOSQL provides a mechanism for storage space and recovery of data which is mock- up in means other than the tabular relations used in relational databases. These databases are gradually more used in big data and real-time web applications.

“International Journal of Trend in Research and Development, Volume 4(3), ISSN: 2394-9333 “

IMPROVED TECHNIQUE FOR IMBRICATE CRYPTOGRAPHY

USING LINEAR CONGRUENTIAL GENERATOR



Prof. Kadam A.G.
Lecturer

Imbricate cryptography is a technique that used symmetric key cryptography in which the key is mixed in the message, therefore only if the correct key is available then and then only the message can be recovered. Thus the encrypted file can be sent across the network of interest. Here the message and the key are inwardly plaited. As the user can choose key of variable length it is not possible to find the key by permutation and combination. It involves layers of encryption and decryption. Multiple Layers of encryption and decryption provide security. Imbricate Cryptography follows layered approach providing security and confidentiality at various levels. The advantage of this new process is that it saves the input text from the „ cipher text only Attack“ and „known plain text attack“. Thereby improving the performance of the generator. The first step of the algorithm doesn't require the key. The Linear Congruential Generator can only be used when the Encryption is taking places in layers else it would be like affine cipher and prone to frequency analysis. Moreover, Imbricate Cryptography is designed in layers make it long and slow. The advantage of this new process is that it saves the input text from cipher text also known as plain text attack. Thereby improving the performance of the generator. The additional operations are four indexed array data lookups per round. Implementations of Linear Cryptanalysis require that the fastest speeds should unroll the loop and ensure that all sub processes are stored in cache.

“Academic Social research RNI No. 1276610 ISSN No. 2456-2645”

ME Completed Faculty



Prof. Khaire R.B.

Lecturer

“Shoulder surfing resistant graphical and pair based authentication system “

A Shoulder Surfing Resistant Graphical and Pair based Authentication System improved text-based shoulder surfing resistant graphical password scheme by. The operation of the proposed scheme is simple and easy to learn for users familiar with textual passwords. The user can easily and efficiently login into system without using any physical keyboard or on-screen keyboard.

Authentication and login into system based on passwords is used largely in applications for computer security and privacy. However, human actions such as choosing bad passwords and inputting passwords in an insecure way are resulted into unauthorized access to system. While logging into these services in public, they may expose their passwords to unknown parties unconsciously. People with malicious intent could access personal accounts and that would definitely pose a great threat to ones assets. The shoulder surfing attack is an attack that can be performed to obtain the user’s password by watching over the user’s shoulder as he enters his password.

Our Solution provide two way authentication to user to avoid unauthorized access and shoulder surfing attack. One is Graphical based and another is more secure that is PairBased au-



Students Achievement

Toppers (Summer 2017)



Sanjyot S. Mahajan
84.69% (Third Year)



Gauri R. Taware
86.89% (Second Year)



Buldak Mukesharram
89.68% (First Year)

(Winter 2017)



Varsha S. Tanksali
88.88% (Third year)
CO5G-I



Buldak Mukesharram
89.68% (Second Year)
CO3G-I



Joshi Omkar
84.86% (First Year)
CO1I



Ruchika K. Gaikwad
86.63% (Third Year)
CO5G-II



Sudarshan B. Sawandakar
78.35% (second Year)
CO3G-II

Industrial Visit



Venue : CDAC PUNE, **Date :** 14.7.2017 to 15.7.2017. **Objectives :** Enhancing the Student's Networking Knowledge



Venue : NIIT Centre, Railway Station ,Aurangabad,**Date :** 29.9.2017,**Objectives :** Enhancing the Student's Knowledge about real life scenario in Industry.



Venue : Naskraft IT Solution PVT LTD,N-1,CIDCO,AURANGABAD,**Date :** 9.9.2017

Objectives : Enhancing the Student's Knowledge about real life scenario in Industry.

Lecture Talk

On Personality Development



Lecture Talk on Personality Development conducted by Abhijit A .Dharmadikari at Einstein hall on 11.7.2018

Co-curricular Activities

Visio-Polyech2K18

MGM's POLYTECHNIC Aurangabad

COMPUTER BRANCH

- **LAN GAMING**
Co-ordinators : Mrs. Polshetwar P.V & Ms. Jadhav A.K
- **PROJECT COMPETITION**
Co-ordinators : Mrs. Deshmukh R . R & Mr. JADHAV P. D
- **POSTER PRESENTATION**
Co-ordinators : Mr. Shinde G . B & Mr. Khaire R . B
- **QUIZ COMPETITION**
Co-ordinators : Mrs. Bhagat C.B & Mrs. Rathi S.R

QUIZ TIME!
Designed By : Mr. S. Faraz Khan & Divya Shah



Participants of Poster ,Quiz Competition, Lan Gaming & Project Competition in Visio Polytech 2K18 State Level Technical Event .

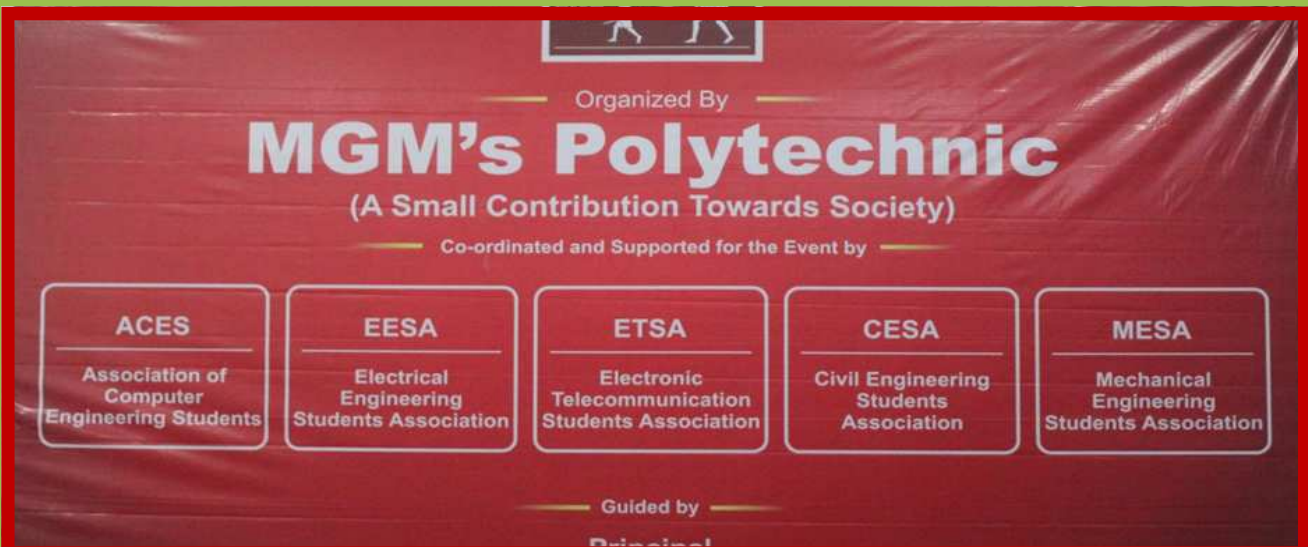
Youth Utsav-2018



Social Activities

Blood Donation Camp

Blood donation helps in lowering the risk of cancer. By donating blood the iron stores in the body are maintained at healthy levels. A reduction in the iron level in the body is linked with low cancer risk. After donation, your body has an amazing capacity to replace all the cells and fluids that have been lost. ... Special cells in the kidneys, called peritubular cells, sense that the level of oxygen in the blood has decreased (due to the loss of red cells) and start secreting a protein called erythropoietin.



Blood Donation Camp at MGM'S Polytechnic, Aurangabad Organized by Computer

Engineering Department on 16 August 2017 .

Helping to Orphans



Social activity done by Computer Engineering Department on 2/2/2018 at Bhagawanbaba Balikashram Satara , Aurangabad.

Children without families are the **most** **VULNERABLE** people in the world.

Brooke Randolph, MLJ Adoptions (Professional)