

TECH NEWS

Official Newsletter of the department of MCA
(P.E.S. Modern college of Engineering , pune)

About Us...

From the Principal's desk : The aim of the 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 "As professionals you are required to gain knowledge and use it effectively even when you are exposed to pressure. You can surely face the challenges in the world with great courage if you can manage your valuable time and set your priorities, by having healthy competition and team spirit. Working in a team, effectively yields best results, even under tight deadlines. My congratulation to MCA Department for their consistent efforts in making newsletter and I wish that they will continue to do this in the years to come.

- Dr. Mrs. K. R. Joshi

From the HOD's desk: It 's a great pride to present our Master of Computer Application Department 's e- Newsletter "TechNews", our very own newsletter which includes different activities articles and achievements of the MCA students. My congratulations to the team who took the responsibility for carrying out this task effectively

- Dr. Mrs. V. B. Sangvikar

From the Editor's desk: It gives me an immense pleasure to present our biannual e- newsletter "TechNews" for the current semester. I would like to thank our HOD and my colleague's for their support in making of this issue. We have worked hard to bring up an exhilarating flashback of the events, achievements during the session 2018-19 Term I. I hope you find it interesting.

- Mrs. Pradnya A .Muley

About The Department: The department of Master of Computer Application (MCA) has been started in the academic year 2003-04 and is permanently affiliated to Savitribai Phule Pune University and recognized by AICTE and DTE. The mission of the department is to contribute to the growth of technical education and to lead to its enrichment and advancement.

Department Vision: To develop Competent Technocrats in the field of Computer applications imbued with human values.

Department Mission:

1. To impart knowledge in the field of Computer applications with a focus on developing the required competencies.
2. To improve technical skill of the students through practical and hands-on experience.
3. To make students socially responsible citizens.
4. To enhance the quality of the students by collaboration with Alumni and Industry.

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Program Education Objectives & Program Outcomes

Programme Educational Objectives :

1. The broad knowledge of computer applications for successful careers in industry.
2. The habit of lifelong learning for career development in this dynamic and rapidly changing field.
3. The ability to inculcate effective communication in the team through demonstration of good analytical, design, development and implementation skills.

Program Outcomes (PO's):

After completing MCA degree student will be able to:

1. Apply knowledge of mathematics, computer science appropriate for real world applications.
2. Identify, formulate, analyze and solve complex computing problems using relevant domain disciplines.
3. Design and evaluate solutions for complex computing problems that meet specified needs for real world applications.
4. Apply programming logic including design of algorithm, programs, analysis and interpretation of data to provide valid solutions.
5. Apply appropriate techniques and modern computing tools for development of real world applications.
6. Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practices.
7. Understand the need and develop the capacity to persistent learning for continual development as a computer professional.
8. Participate as a member and leader in a team and stand out in multidisciplinary environments to demonstrate computing and management skills.
9. Communicate effectively to comprehend and present effective technical Documentation.
10. Apply the computing knowledge efficiently & effectively with concern for societal, environmental, and cultural aspects relevant to professional computing practices.
11. To contribute effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.
12. To identify a timely opportunity and innovation with entire effort to function as a successful entrepreneur.



Organizational Leadership and Cybersecurity Success

BY MOHAMED ELDOH

with the ongoing hype of digital transformation combined with continuous developments of tools such as machine learning, Artificial Intelligence, Big Data, cloud computing, robotics and Internet of Things; organizations are faced with unprecedented array of technologies that could push performance to higher levels and realize a potential that was not made available before. On the other hand, increasing organizational digital interconnectivity brings a wide range of rapidly evolving cyber threats and risks for organizations. According to Gartner, due to the inability of IT security teams to manage digital risks, 60% of digital businesses will suffer a major service failure by 2020. According to a PwC report surveying 3000 Business leaders in 81 countries, it was found that businesses of all sizes are “ill-prepared” to protect themselves and their customers against cybersecurity threats. Furthermore, according to a report by Cognizant that 45% of senior executives view cybersecurity as a purely IT initiative rather than a board’s top priority. We should ask a critical question: how does the leadership of an organization affect the successful (or unsuccessful) implementation of a comprehensive cybersecurity program in an organization? Which leadership traits serves the organization’s mission efficiently and effectively in this respect? In this regards, there are two key leadership styles: transformational and transactional.

Transactional leaders are more concerned with maintaining the normal flow of the business operations and managing day-to-day operations, while transformational leaders are typically concerned with developing future strategies with the aim of taking the organization to further levels of performance.

That said, we would then see more CEOs of organizations: Empowering and involving their CISOs in discussions and planning to address and tackle cyber risks.

Central involvement of the organization’s cybersecurity team when planning to adopt a new technological solution in the organization, whether it’s a simple software or sophisticated digitized and automated production machine.

Do You Know?

MYTH :
YOU SHOULD HAVE
GOOD CODING SKILLS
TO START CYBER
SECURITY LEARNING

TRUTH :
YOU SHOULD HAVE
1. A COMPUTER
2. A NETWORK
3. AND LINUX OS
TO DIVE IN CYBER
SECURITY WORLD





Title of the Activity : Yoga Session
Day and Date : 21 June 2018
Category of activity : Social
Objectives : Practicing Yoga ultimately leads towards long-term health and well-being.
Outcomes : From this session students and Faculty learnt about -
 1. Find harmony between the mind and the body.
 2. Increase their capacity of mental concentration.

Departmental Activities 2018-19

Title of the Activity : Java Programming Aptitude Test
Day and Date : 23 June 2018
Category of activity : Co-curricular
Objectives : To get practice for placement.
Name of the speaker : Mrs. Pratibha Adkar



Title of the Activity : Guest Lecture on Interview Secret
Day and Date : 21 July 2018
Category of activity : Soft skill Training program
Objectives : Develop effective communication skills (spoken and written) and presentation skills.
Name of the speaker : Mr. Gaurav Ambedkar



Title of the Activity : Guest Lecture on Agile
Day and Date : 14 July 2018
Category of activity : Co-curricular
Objectives : To brief the students about Agile.
Name of the speaker : Mr. Atul Phad



Title of the Activity : Guest Lecture on Spring Boot
Day and Date : 7 July 2018
Category of activity : Co-curricular
Objectives : To brief the students about Spring Boot.
Name of the speaker : Mr. Parishrut Karanjikar



All programs held by MCA department were performed under the supervision of HOD of MCA Dr. Vaishali Sangvikar



Title of the Activity : Guest Lecture on Data Science-Business Analytics
Day and Date : 4 Aug 2018
Category of activity : Co-Curricular
Objectives : To introduce students with Data Science and Business Analytics
Name of the Speaker : Mr. Ashwin Rawal

Title of the Activity : Guest Lecture on Interview Secret
Day and Date : 21 July 2018
Category of activity : Soft skill Training program
Objectives : Develop effective communication skills (spoken and written) and presentation skills.
Name of the speaker : Mr. Gaurav Ambedkar

Title of the Activity : Guest Lecture on Interview Secret
Day and Date : 11th August & 4th September 2018
Category of activity : Hands on - Selenium Web driver
Objectives : To introduce students with Selenium Web Driver
Name of the speaker : Mr. Chetan Bendre



Title of the Activity : फिलॉसॉफर्स क्लब - " शोध अंतरीचा - वेध खऱ्या सुखाचा"
Day and Date : 23 august 2018
Category of activity : Co-curricular
Objectives : To convince the younger generation about the importance of saints thought.
Name of the speaker : Sanjay Guruji



Title of the Activity : Visit To Punruthan Samarasam Gurukulam
Day and Date : 6 oct 2018
Category of activity : Extra-Curricular
Objectives : To donate food grains items to poor children. To interact with students regarding their skill based education.
Name of the Speaker : Mr. Girish Prabhune

Title of the Activity : Induction Program of FYMCA 2018 batch
Day and Date : 18 August 2018
Category of activity : Co-curricular
Objectives : To introduce students with staff, Dept. College, activities organized for them, moral, values and ethics of the PE Society and MCOE.
Name of the speaker : Mr. Girish Khilari





Title of the Activity : Guest lecture on Mobile Applications Development using Android Studio and Firebase
Day and Date : 25 Aug 2018
Category of activity : Co-Curricular
Objectives : To get knowledge of how to develop Mobile Applications using Android Studio
Name of the Speaker : Mr. Rahul Chaube

Title of the Activity : Guest lecture on Advanced Web development in PHP using AJAX
Day and Date : 22 sep 2018
Category of activity : co-curricular
Objectives : To get acquainted the students with the advanced web development tools in PHP using AJAX
Name of the speaker : Mr. Hrishikesh Jadhav

Title of the Activity : Guest Lecture on Cyber Security
Day and Date : 1 sep 2018
Category of activity : Co-Curricular
Objectives : To well aware students about cyber regulations
Name of the speaker : Mr. Sandip Nawal



Title of the Activity : Guest Lecture on Android Application Development.
Day and Date : 5 sep 2018
Category of activity : Co-curricular
Objectives : To introduce students with android development
Name of the speaker : Mr. Gaurav Lonkar



Title of the Activity : Guest lecture on Gaming with JAVA
Day and Date : 8 sep 2018
Category of activity : Co-curricular
Objectives : To get idea about opportunities for Gaming Career in IT
Name of the speaker : Mr. Atul Phad



Title of the Activity : Parent Meet
Day and Date : Saturday 29th Sep 2018
Category of activity : Co-curricular
Objectives : · To convey department vision and mission to parent.
 ·To show parent the attendance of ward.
 ·To convey parent the performance of ward.
 ·discuss issues of student with parent.

Student Achievements

Sr. No.	Name of student	Class	Year	Activity Name	Organized By	level	Prize
1.	Chaudhari Dnyaneshwar Tulshiram	FYMCA	2018-19	Power Lifting	Pune University	Zonal	Participation
2.	Pranjal Verma	SYMCA	2018-19	Gymnastics	Pune City zonal sports committee	Zonal	Participation
3.	Pranjal Verma	SYMCA	2018-19	Gymnastics	Muktangan sports center saharak nagar Pune	Zonal	Participation
4.	Babai Chatterjee	SYMCA	2018-19	Bollywood Dhamaka	Jai Hind Pariwar	State	Winner
5.	Babai Chatterjee	SYMCA	2018-19	Voice of Pune Contest	Pune Festival	District	Winner
5.	Babai Chatterjee	SYMCA	2018-19	Babujinchi Gani	The Art Heritage	state	Winner

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Editorial Board



Prof. Pradnya Muley



Ajinkya S. Abhyankar

"The human spirit must prevail over technology."

- Albert Einstein

Quick Heal Threat Report – Cryptojacking rising but Ransomware still #1 threat for consumers

BY SUSHMITA KALASHIKAR

In wake of the growing incidences of targeted cyber-attacks on enterprises using Cryptojacking, due to its ease of deployment and instant return on investments; it rather comes as a surprise that malware authors are still counting on Ransomware for targeting consumers and home users.

Yes, you heard it right!

According to the Annual Threat Report of Quick Heal Technologies, 2018 witnessed 7 Million Ransomware detections in consumer sector as compared to just 5 million Cryptojacking.

One prominent and destructive Ransomware to grab everyone's attention in 2018 was "GandCrab". Observed for the first time in January 2018, GandCrab within a month claimed to have infected over 48,000 nodes. This massive infection undoubtedly turned Europol's head and made them coordinate with a security firm to hack GandCrab servers for decryption keys.

Ever since, GandCrab has kept evolving itself and in fact launched multiple variants by the end of year 2018, posing a serious threat in the consumer landscape.

In fact, in its latest findings, Quick Heal Labs reported that websites that until now were delivering Emotet (most prominent banking Trojan of 2018) have now started delivering GandCrab Ransomware V 5.1.

Yet another destructive Ransomware to have raised its head and weakened the security software was "Dharma" Ransomware. With more than 150 extensions observed in this campaign, Dharma Ransomware tried to spread over the network after successful encryption.

Few of the other Ransomware to have made noise in 2018 include the sophisticated "Katyusha" Ransomware and "Ryuk" Ransomware that seems to be a spear phishing attack.

With over 19K Ransomware detected every single day, it wouldn't be wrong to assume that moving forward, MaaS will soon make way for RaaS (Ransomware as a Service) or the future possibility of As-a-Service model for APTs (Advanced Persistent Threat) allowing cyber criminals to gain easy unauthorized access to networks.

The Tech News