



Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)

Faculty Development Programme in Cyber Security and Data Sciences
For
Faculty in Universities, Colleges and Institutes of Higher Education
(10th June to 15th June 2019)

Call for Registration and Participation

**Venue: Trinity Academy of Engineering, S. No. 25 & 27, A/P. Pisoli, Bopdev Ghat Road,,
Kondhwa Saswad Road, Next to Yevlewadi, Pune, Maharashtra 411001**



Jointly Organized by
Shivaji University, Kolhapur
and
KJEl's Trinity Academy of Engineering, Pune

About Shivaji University, Kolhapur

Shivaji University, established in 1962, is named after the Great Maratha Warrior and founder of the Maratha empire Chhatrapati Shivaji. One of the major objectives behind foundation of this University was to cater to the regional needs of South Maharashtra. The jurisdiction of the University is spread over three districts viz. Kolhapur, Sangli and Satara with strength of about 3,00,000 students studying in 280 affiliated colleges and recognized institutes. The recent phase of the University can be termed as "a pursuit of academic excellence". Since last 4-5 years, several attempts are being made to overcome the image of University as a regional University. The University's efforts towards excellence are being recognized by the substantial grants received from funding agencies like UGC, DST, DBT etc. Another indicator of recognition of University is collaborations with premier institutes in the country. Shivaji University has recently signed MOU with Bhabha Atomic Research Centre, Mumbai for research in Material Science. It has also joined hands with Indian Institute of Geo-Magnetism, Mumbai and industries like Phyto-Pharma. Prestigious institutes like Maharashtra Police Academy, Nashik and Centre for Social Studies, Surat have sought affiliation with the Shivaji University. Shivaji University has been re-accredited by National Assessment and Accreditation Council (NAAC) Bangalore, with "A" Grade (CGPA-3.16) (2014). Shivaji University has bagged the 28th position in the rankings announced by the National Institutional Ranking Framework (NIRF) of Union Ministry of Human Resource Development (MHRD). As per the INFLIBNET report, Shivaji University stands second in use of Nature publications Group's (NPG) e-journal usage in the country. The University has also signed MoU with Centre for Development of Advanced Computing (C-DAC), Pune. Under the agreement, the two institutions will exchange information and communication technology.

About KJIE's Trinity Academy of Engineering, Yevlewadi, Pune

The Trinity Academy of Engineering is a technical education institute in the city of Pune, India. The institute is affiliated with the University of Pune^[1] and managed by the KJ's Educational Institutes (KJIE). It has been accredited by the National Board of Accreditation and recognized by the All India Council for Technical Education (AICTE). The institute has also been awarded an "A" Grade by the National Assessment And Accreditation Council (NAAC) and Directorate of Technical Education, Maharashtra. The college has about 200 faculty members, 67 laboratories, 1 central library and 100 administrative and support staff. Spread over an area of 120 acres (490,000 m²), the academic area consists of five major buildings. The campus has three major canteens, 4 coffee and snack outlets that remain open during the college hours, and an auditorium.

About FDC Centre in Cyber Security and Data Sciences:

National Resource Centre in Cyber Security and Data Sciences is established under the guidance RUSA Maharashtra from the grants received from the MHRD, Government of India under the 'Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT)' scheme. Objective of this centre is capacity building of human resource which is recognized as a critical element to strengthen not only the organization/ institutions but even the people at grassroots level by spreading awareness Cyber security. There is a large gap between demand and availability of trained human resource in Cyber Security, who can beneficially utilize the available information for cyber safety. Cyber security trained human resource is needed both as the provider and user of Technology. This is vital for sustainable development so that informed decision making can be done at all levels.

About the Training:

Cyber security is need of the time, as estimated by National Association of Software and Services Companies (NASSCOM)'s Cyber security Task Force, there is need of 1 million trained cyber security professionals in India by 2025. But, currently there are only 62,000, so to fill this gap there is need to introduce cyber security courses at graduate and postgraduate *levels*. Our aim is to train teachers with practical skills so that more and more cyber security experts can be shaped every year. It is expected that the 'Train the Trainers' approach shall percolate to the students in colleges and make them suitable to take up challenges in the domain of Cyber Security which is the need of this decade and will thus improve their employability enhancing campus placement. In addition, Cyber Security courses will help in start-ups and employment opportunities. The faculty shall be also trained specifically as knowledge creator with strong practical 'skills' and theoretical details.

Objectives of the Training:

- Train 2000 faculties
- Building networks of professional
- Forming consortium of industries specialized in cyber security which will interface with Shivaji university Kolhapur
- Sensitizing cyber security to masses at large for strengthening cashless transactions.

Eligibility:

Faculty Members from Science and Technology, Humanities, Social Sciences, Commerce and Management discipline from Universities, Colleges, NITs, IITs, Engineering Colleges and other Institutions of Higher Education. As the number of participants is limited to 40, preference will be given on First Come First Serve basis.

Programme Schedule:

Dates: 10th June to 15th June 2019

Venue: KJEE's Trinity Academy of Engineering, Yevlewadi Pune

Day and Date	Course Contents
Day 1: Monday, 10/06/2019	Introduction and Computer Security- I
Day 2: Tuesday, 11/06/2019:	Computer Security - I
Day 3: Wednesday, 12/06/2019	Network Security I
Day 4 Thursday, 13/06/2019	Network Security II and Email Security, I
Day 5: Friday , 14/06/2019	Website Security I
Day 6: Saturday, 15/06/2019	Website Security II and Cyber Law, Mobile Security and Cloud Security

The eligible candidates will be given confirmation is available on web-portal and it will also be informed through email. All confirmed participants will have to submit a relieving letter from their institution on the first day of the training.

Laboratory assignments:

1. Installing, Configuring and Commissioning of Proxy Server using FOSS. Studying issues like Browser security, email security, difference between http, https etc.
2. Perform port scanning using NMAP (Network Mapper).
3. Analyse the network traffic using wireshark or any other network sniffer.

4. Collect the Owner's information using spyware.
5. Steganography: Perform data hiding using covered writing
6. Identification of virus infected file using virustotal.com
7. Understanding trace route functionality using open visual trace route
8. Vulnerability analysis in web application using Zed Attack Proxy
9. Isolating WLAN Traffic using Separate Firewall for VPN Connection
10. To Create a Virtual Private Network (VPN) over WAN
11. To evaluate application response time in the presence and absence of a firewall.
12. Managing Security in Small Business Network
13. Security Group Policies Management
14. Group Policy management
15. ICMP Ping
16. Subnetting
17. Firewalls
18. RIP
19. OSPF
20. VPN
21. VLAN
22. Case study on IT Act 2000
23. Case study on cyber attack / cyber crime

Registration:

Participants must register through online web-portal only. No need to send any printed documents to the Resource Center Shivaji University. Registration Link:

<http://sangnaksuraksha.com>

Registration details:

Registration and participants is free of cost. Hard copy of the registration form duly forwarded through the Head of the Institute should be submitted to the Co-coordinator on the first day of the programme.

Instructions for the Participants:

- Attendance at all sessions is mandatory. Breakfast, Lunch and Tea will be provided.
- Outstation participants will be provided accommodation only on advance intimation.

Technical Requirements from participants:

- Participants should carry their own laptop as well as debit cards, credit cards, payment wallets, net banking, UPI, mobile banking, paypal, aadhar, PAN card with them for sample demos.
- Participants should carry Smartphone either android / ios with them.
- Participant should focus on smartphone apps like Truecaller, PayTM, PhonePe, Google Pay, PayZApp, Authenticator, Facebook, WhatsApp, Instagram

Important Note: This FDP under PMMMNTT is applicable for CAS promotions as per UGC gazette.

Organizing Committee

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