MHRD
Government of India
Ministry of Human Resource Development

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

Faculty Development Programme in Cyber Security

For

Faculty in Universities, Colleges and Institutes of Higher Education

(16th September to 21st September, 2019)

Call for Registration and Participation

Venue: Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Shivaji University, Kolhapur

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Jointly Organized by

Shivaji University, Kolhapur

and

Department of Computer Science,

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

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 Rajarshi Shahu Mahavidyalaya (Autonomous), Latur:

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, with ‘Pursuit of Excellence’ as its mission has emerged as an institution with a difference and is prepared to ceaselessly strive for excellence. The college established in 1970 by Shiv Chhatrapati Shikshan Sanstha, being a multi faculty college is affiliated to Swami Ramanand Teerth Marathwada University, Nanded. In a short span the college acquired recognition for its quality education both at +2 and UG\PG level all over the state and the country. The Govt. of Maharashtra honoured us with ‘Ideal Educational Institute’ award in 2000. The college has the distinction of being the first institution in our region going for the NAAC accreditation in 2003 (‘A’ grade-88.25%) and retained it in the re-accreditation in 2010 (CGPA-3.38). Recently college is accredited by NAAC for III cycle and received B++ Grade with CGPA 2.99. College has secured ‘A’ grade in external academic audit conducted by Swami Ramanand Teerth Marathwada University, Nanded. College has bagged rank in rank band 101 to 150 in NIRF-2017 ranking. College is certified with ISO 9001:2015 (QMS) in 2019. Also college has bagged Best College Award from Parent University in 2008-2009. The college has CPE-status awarded by UGC and running its III phase. The college is supported by DST under FIST scheme. College is benefited by UGC-BSR Scheme in 2013. The college got ‘Autonomy’ in 2013-14, the only in our region and successfully completed six years under autonomy. Autonomy has empowered us to introduce innovations in Academics and Research. We enriched our curriculum giving importance on skill and employability through introduction of 27 add-on, Moral education, NCC, NPTEL and skill enhancement courses. College introduced 08 need based PG programs, B.Voc. in Computer Technology, B.Voc. in Food Processing and Technology and CBCS pattern. We have MoU’s with Lille-1 University, France, NCL-Pune, MCED, Suresh Indu lasers, etc. Our faculty got post-doctoral fellowships of Florida University and Royal Melbourne Technology University.

About Resource 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 Malaviya National Mission on Teachers and Teaching (PMMMNMTT)' 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, IIITs, 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: 16th September to 21th September 2019

Venue: Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

	Day and Date	Course Contents
Day 1:	Monday, 16/09/2019	Introduction and Computer Security- I
Day 2:	Tuesday, 17/09/2019	Computer Security - I
Day 3:	Wednesday, 18/09/2019	Network Security I and Email Security
Day 4	Thursday, 19/09/2019	Network Security II and Email Security I
Day 5:	Friday, 20/09/2019	Website Security I and Cyber Law
Day 6:	Saturday, 21/09/2019	Mobile Security and Cloud Security

The list of eligible candidates will be displayed 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. Understandings 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, Kolhapur.

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 with charges applied.
- No TA /DA will be given to out station Participants.

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.
- Participants should focus on smartphone apps like True caller, PayTM, PhonePe, Google Pay, PayZApp, Authenticator, Facebook, WhatsApp, Instagram.

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

Organizing Committee

Patron

Hon. Prof. Dr. D. B. Shinde
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Shivaji University, Kolhapur

Hon. Prof. Dr. D. T. Shirke
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Dr. Harshali Patil, (Assistant Professor)
Miss. Sayyad Iqra, (Assistant Professor)

Advisory Committee

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