

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

Call for Registration and Participation

**One Week Faculty Development Programme on
“Cyber Security”**

For

**Faculty in Universities, Colleges and Institutes of Higher Education
(2nd December to 7th December, 2019)**



Jointly Organized by

**MHRD-PMMMNTT Faculty Development Center in Cyber Security
and Data Sciences, Shivaji University Kolhapur**

and

**Chhatrapati Shahu Institute of Business Education and Research,
Kolhapur**

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 CSIBER

Chhatrapati Shahu Institute of Business Education and Research (CSIBER) was established in 1976 as a post graduate teaching and research institute affiliated to Shivaji University, Kolhapur. The institute is autonomous since 1995. The programmes currently offered by the institute are MBA (Gen), MBA (Env. Mgt), MCA, MSW, M.Sc. (Environment & Safety), M.Sc. (Quantitative Economics), M. Com. and M.Phil. The UGC has granted "College with Potential for Excellence (CPE)" status from the year 2006-07 to 2020-21. CSIBER is re-accredited and conferred A+ Grade in the 3rd cycle of National Assessment and Accreditation Council (NAAC) with CGPA - 3.55. The Rashtriya Uchchar Shiksha Abhiyan (RUSA) has sanctioned the grant of Rs. 5crore.

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 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 on 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. The trainers are NASSCOM approved and certified by Sector Skill Council (SSC) in Cyber security.

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Objectives of the Training

- Train 40 Faculty Members on Cyber Security
- 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 Engineering, Science and Technology, Humanities, Social Sciences, Commerce and Management discipline from Universities, Colleges, NITs, IITs, Engineering Colleges and other Institutions of Higher Education.

Programme Schedule

Dates: 2nd December to 7th December 2019

Venue: CSIBER, Kolhapur

Day	Day and Date	Course Content
Day 1	02/12/2019	Introduction and Computer Security- I
Day 2	03/12/2019	Network Security I
Day 3	04/12/2019	Network Security II and Email Security, I
Day 4	05/12/2019	Website Security I
Day 5	06/12/2019	Website Security II and Cyber Law
Day 6	07/12/2019	Mobile Security and Cloud Security

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. Preference will be given on First Come First Serve basis. Registration and participation is free of cost.

Registration Link: <http://sangnaksuraksha.com>

The confirmation of participation will be made available on web-portal and it will also be informed through email.

Instructions for the Participants

- Attendance at all sessions is mandatory.
- Lunch and Tea will be provided. ☺
- No TA/DA will be given to 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.
- Participant 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
Vice Chancellor, Shivaji University, Kolhapur

Hon. Prof. Dr. D. T. Shirke
Pro-Vice Chancellor, Shivaji University, Kolhapur

Dr. R.A. Shinde,
Secretary and Managing Trustee, CSIBER, Kolhapur

Dr. V. D. Nandavadekar
Registrar, Shivaji University, Kolhapur

Principal Investigator

Dr. R. K. Kamat
IQAC Director,
Director, Innovation, Incubation and Linkages
Head, Department of Computer Science Shivaji University, Kolhapur

Advisory Committee

Dr. V.M. Hilage, Trustee Member, CSIBER
CA. H.R. Shinde, Trustee Member, CSIBER
Dr. P.K. Waychal, Director, CSIBER, Kolhapur
Dr. R.V. Kulakarni, Head, Dept. of Computer Studies

Workshop Coordinators

1. Dr. R.S. Kamath
Associate Professor, Dept. of Computer Studies, CSIBER, Kolhapur
9096004515 rskamath@siberindia.edu.in
2. Mr. M.B. Patil
Assistant Professor, Dept. of Computer Studies, CSIBER, Kolhapur
9422029295 mbpatil@siberindia.edu.in
3. Mr. K.G. Kharade
Assistant Professor, Dept. of Computer Science, Shivaji University, Kolhapur
8055801285 kabirkharade@gmail.com

Organizing Committee

Dr. P. G. Naik, Professor	Mr. R.M. Huddar, Assistant Professor
Dr. S.D. Bhoite, Associate Professor	Mr. R.T. Thorat, Assistant Professor
Dr. Ajay D. Shinde, Associate Professor	Mr. V. L. Badadare, Assistant Professor
Dr. S. S. Jamsandekar, Assistant Professor	Mrs. B. Y. Adsule, Technical Assistant