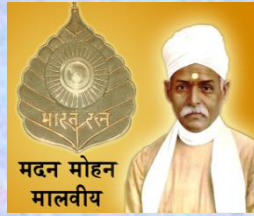




MHRD

सत्यमेव जयते

Government of India
Ministry of Human
Resource Development



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

Faculty Development Program in Data Science
Faculty in Universities, Colleges and Institutes of Higher
Education

(16th September to 21st September 2019)

Call for Registration and Participation

**Venue: Department of Computer Engineering, Sinhgad Institute Of Technology,
Kusgaon (bk.) Lonavala. Off Mumbai-Pune Expressway Tal. : Maval, Dist. : Pune.
410401.**



Jointly Organized by
Shivaji University, Kolhapur
And

Sinhgad Institute of Technology, Kusgaon (bk.) Lonavala.

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.

Sinhgad Institute of Technology, Kusgaon (bk.) Lonavala.

Sinhgad Institute of Technology (SIT), Lonavala since its establishment in 2004 being premier Institute is committed to fulfill aspirations for excellence in technical education, produce competent engineers and good human being. The institute has 175 acres artistically landscaped, lush green campus, conducive to learning. We strive to develop SIT as a benchmark in engineering education. It is an ultimate destination for students to groom their overall personality along with academic excellence. These are achieved through Value Addition Programs (VAPs), Student Training Programs (STP), Lab Innovations, Project Based Learning, Cultural activities, Technical events, etc.,

Training and Placement Cell with the facility of Corporate Training Centre is dedicated to nurture our students to face global challenges. Sinhgad Sports academy with facilities and coaches of national standards is established to explore hidden sports talents amongst students.

Welcome to such live, vibrant campus and best wishes for your glorious journey towards bright and successful future.

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 (PMMNMTT)' 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.

Program Schedule:

Dates: 16th September to 21st September 2019

Venue: Department of Computer Engineering, Building no. 2, F115, *Sinhgad Institute Of Technology, Kusgaon (bk.) Lonavala.*

Day and Date	Course Contents
Day 1: Monday, 16/09/2019	Introduction to python
Day 2: Tuesday, 17/09/2019	Hands-on session on python
Day 3: Wednesday, 18/09/2019	Data Analytics using Python
Day 4: Thursday, 19/09/2019	Machine learning using Python
Day 5: Friday, 20/09/2019	Hands-On session on Machine Learning Analytics
Day 6: Saturday, 21/09/2019	Hands-On session on Data Analytics

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. Introduction to Python.
2. Introduction to Machine Learning.
3. Importing data using python for analysis
4. Exploring data sets for analysis
5. Working with loops, metrics, data submission
6. Building Data-Frames, merging data-frames and visualization with dataframes
7. Data analytics using python
8. Matrices Preview
9. Building Your First Matrix
10. Dictionaries in Python
11. Matrix Operations
12. Explore & Define a ML use case
13. EDA and Feature Engineering

14. Working on machine learning using Python
15. Importing data into python
16. Exploring your dataset
17. Filtering a data frame
18. Renaming Columns of a Data-frame
19. Exploring Data Analysis
20. Univariate Analysis
21. Simple & Multiple Linear
22. Regression
23. Regression Demo
24. Simple Network Servers
25. Package Managers

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.

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.
- Online test is compulsory to get certificate.

Technical Requirements from participants:

- Participants should carry their own laptops. It is mandatory to all.
- Participants should carry Smartphone either android / ios with them.

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

Organizing Committee

Chief 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. V. D. Nanavadekar
Resigstrar,
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S.T.E. Society, Pune.
Hon. Dr. (Mrs.) S. M. Navale
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Principal
Sinhgad Institute of Technology, Lonavala.

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IQAC Director,
Director, Innovation, Incubation and Linkages
Head, Department of Computer Science,
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