

## INTRODUCTION

National Informatics Centre (NIC), Ministry of Electronics and Information Technology, is a premier organisation in the field of Information Technology. It provides state-of-the-art solutions for information management and decision support requirements of the Government of India and State Governments.

## TRAINING PROGRAMMES AT NIC MAHARASHTRA STATE CENTRE, MUMBAI

### How to Apply

For enrolment, the prescribed nomination form may be used (downloadable from <http://training.nic.in>). The form complete in all respect should be sent at least four weeks before the date of commencement of the respective course, to the address given below.

State Informatics Officer  
National Informatics Centre  
11<sup>th</sup> Floor, New Administrative Building,  
Opp. Mantralaya, Madam Cama Road,  
Mumbai – 400 032 (MAHARASHTRA)  
Phone: 022-22046934/22837339, 22853562  
email: [siomsu@nic.in](mailto:siomsu@nic.in)

### Venue and Timings

All the training and courses will be conducted at the address given above from 10.00 AM to 5.00 PM with tea breaks from 11:15 to 11:45 and 3:15 to 3:45. Lunch break will be from 1:00 to 2:00.

### Boarding & Lodging

All outstation participants must make their own boarding and lodging arrangements during the training period.

## Emerging Technology Trends -I (Block Chain)

<b>Objective</b>	: Blockchain Concepts , Its Application in Govt domain.
<b>Contents</b>	: Blockchain Concepts , Advantages , Applicability, fit case analysis , Hype and reality , Permissioned Blockchain , platforms , PoCs developed at state level., National level and international level. Risk analysis . Blockchain: The India strategy, Role to be played by participating departments and Technical organization.
<b>Methodology</b>	: <b>Presentations, case studies</b>
<b>Prerequisite</b>	: Nil
<b>Level of Participant</b>	: Under Secretary. Dy. Secretary and above
<b>Duration</b>	: 1 day
<b>Schedule</b>	: <b>Mar 18, 2021</b>
<b>Course Coordinator</b>	: Mr. K. Pariselvan, DDG Mrs. Meera Joshi, Scientist -F Mr. Avinash Pedgaonkar, Scientist-F

## Web application development in cloud Environment & Application Security

<b>Objective</b>	: To understand the basics of Cloud Computing and the movement from a traditional network infrastructure to a Cloud solution.
<b>Contents</b>	: Cloud Computing Basics Web application development basics Accessing the Cloud Platforms Software as a Service OWASP Vulnerabilities and Attacks Web Application Security tools
<b>Methodology</b>	: <b>Lectures, demos</b>
<b>Prerequisite</b>	: Nil
<b>Level of Participant</b>	: Deputy Director, Joint Director, Assistant and above
<b>Duration</b>	: 1 day
<b>Schedule</b>	: <b>Apr 08, 2021</b>
<b>Course Coordinator</b>	: Mrs. Lakshmi Prasanna, Scientist-F Mr. Sanjay Matthey, Scientist-F Mrs. Habeeba AL, Scientist-B

## Emerging Technology Trends -II ( Big Data and NoSQL)

<b>Objective</b>	: Concepts of big data and analytics.  Tools and practices for working with big data, stream computing. Techniques that requires the integration of large amounts of data. NoSQL databases and management
<b>Contents</b>	: Introduction of database Introduction of RDBMS Big Data, Need for NoSQL NoSQL and its Database Types Selecting right database for application
<b>Methodology</b>	: <b>Lecture and Presentation</b>
<b>Prerequisite</b>	: Nil
<b>Level of Participant</b>	: Under Secretary, Deputy Director, Joint Director or Research Officer
<b>Duration</b>	: 1 day
<b>Schedule</b>	: <b>Jun 10, 2021</b>
<b>Course Coordinator</b>	: Mrs. Savita Bhatnagar, Scientist-F Mr. Lahu Waghmare, Scientist -C

## Emerging Technology Trends -III (Predictive Analytics)

<b>Objective</b>	: Predictive analysis comprise of tools and techniques for building statistical or intelligent machine learning models in making useful predictions based on the available data sets.
<b>Contents</b>	: Data Analytics Importing and Manipulating Data Data Visualization Predictive Analytics
<b>Methodology</b>	: <b>Lectures and practice sessions</b>
<b>Prerequisite</b>	: Nil
<b>Level of Participant</b>	: Section Officer, Under Secretary, Dy. Secretary and above
<b>Duration</b>	: 1 day
<b>Schedule</b>	: <b>Jul 29, 2021</b>
<b>Course Coordinator</b>	: Mrs. Ireni Akoijam, Scientist-F Mr. Amod Suryavanshi, Scientist-B

# Training Calendar 2021

## Emerging Technology Trends -III (Machine and Deep Learning )

- Objective** : To understand the basic building blocks and general principles those allow one to design machine learning algorithms
- Contents** : Modeling, Decision Tree and learning rules, Unsupervised learning techniques, Reinforcement Learning
- Methodology** : Lectures and practice sessions
- Prerequisite** : Nil
- Level of Participant** : Under Secretary, Deputy Director, Joint Director or Research Officer
- Duration** : 1 day
- Schedule** : Aug 26, 2021
- Course Coordinator** : Mrs. Sneha Lotankar, Scientist-F  
Mr. B.B. Bangar, Scientist -C

## Network Security (NICNET)

- Objective** : To protect infrastructure and securing data, including risk analysis and mitigation, cloud-based security.
- Contents** : Network Security Basics  
Network Security Components  
Network Security policies  
Common types of network Threats & attacks  
Email Security , Firewalls  
Virtual Private Networks and Security
- Methodology** : Lectures
- Prerequisite** : Nil
- Level of Participant** : Under Secretary, Deputy Director, Joint Director or Research Officer
- Duration** : 1 day
- Schedule** : Sep 23, 2021
- Course Coordinator** : Mrs. Savita Gawali, Scientist -F  
Mr. Anand Ladhe, Scientist -F

## Mobile APPs

- Objective** : Developing mobile app for awareness of data visualization to support data-driven decision-making and a data-driven culture in Android and iOS.
- Contents** : Design principles , Creating effective and accurate visualizations. Create a narrative that accurately supports the data, provides context, and reveals actionable insights, Create charts and graphs
- Methodology** : Lectures and Demo sessions
- Prerequisite** : Nil
- Level of Participant** : Under Secretary, Deputy Director, Joint Director or Research Officer
- Duration** : 1 day
- Schedule** : Oct 28, 2021
- Course Coordinator** : Mrs. Savita Gawali, Scientist -F  
Mr. Mohammed Qayum, Scientist-E  
Mr. Shahid Peerjada, Scientist-C

## Demonstration of Web Application s/w (Status Information System )

- Objective** : To familiarize participants from Ministries/ Departments of Central/ State Governments which require collection of information in prescribed formats from line offices of their departments for effective decision making
- Contents** : Creation of formats  
Collection and compilation of data  
Setting time limit for data entry
- Methodology** : Lectures and practice sessions
- Prerequisite** : Nil
- Level of Participant** : Under Secretary, Deputy Director, Joint Director or Research Officer
- Duration** : 1 day
- Schedule** : Dec 16, 2021
- Course Coordinator** : Mr. Yogesh Khadayate Scientist -F  
Mrs. Suman Patni, Scientist -C

Government of India  
Ministry of Electronics and Information Technology

**National Informatics Centre**

**Maharashtra State Centre**

**Mantralaya Mumbai**

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