

One Week

**Online Atal Faculty Development
Program**

on

**Cloud Forensics: Techniques,
Challenges and Research Directions**

(18.10.2021 – 22.10.2021)

Jointly Organized by



**DEPARTMENT
OF
COMPUTER SCIENCE AND
ENGINEERING**

**NATIONAL INSTITUTE OF TECHNOLOGY
SIKKIM**

Sponsored By



**All India Council for Technical Education
New Delhi**

ABOUT NIT SIKKIM

NIT Sikkim is a public, technical and research institute located at Ravangla in the state of Sikkim, India. It was established under the act of Parliament in the year 2010, as a part of the Eleventh Five Year Plan. Since 2010, NIT Sikkim has been successfully catering the needs of thousands of students from all over the country as it aspires to become a globally recognized institution. The institute is offering B.Tech. programs in Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering and Civil Engineering, and M.Tech. programs in Computer Science and Engineering, Microelectronics & VLSI Design and Electrical and Electronics Engineering. The Institute also runs M.Sc. program in Chemistry and Ph.D. programs in all departments. Presently, the institute is working as a temporary campus in Ravangla which is a tourist town that lies between Pelling and Gangtok, and is connected by a national highway to other major towns in the state. The New Jalpaiguri Railway Station and Bagdogra Airport are 124 km and 130 km away from the campus respectively. Ravangla is situated at an elevation of 2100 meters surrounded by the Himalayan terrain, and is internationally famous for tourist spots like Buddha Park, Ralong Monastery, Temi Tea Garden etc.

ABOUT THE DEPT OF CSE

The Department of CSE was established in 2010 where foundation of National Institute of Technology Sikkim was laid. The Department aims to provide and outstanding research environment complemented by excellence in teaching to produce engineering professionals leading a successful career in industry, academics and entrepreneurial endeavors. The Department offers research in the areas of Cloud Computing, Fog and Edge Computing, IoT, Security and Forensics, Wireless Sensor Network Parallel- Distributed system, High-Performance Computing, and Algorithms. To accomplish this the Department has good laboratory facility with modern equipment that encourage the students to get acquainted with latest technologies. The CSE Department offers B. Tech, M. Tech. and PhD degrees.

OBJECTIVE OF THE FDP

The objective of this Faculty Development Program (FDP) is to acclimatize the faculties and researchers with emerging trends of the cloud forensics by promoting their interactions with eminent speakers and experts from IITs, NITs, industries and premium institution of abroad. The sessions will include various case studies and hands on presentation of innovative applications in the field of cloud forensics. Additionally, FDP will also help the faculties and researchers to inculcate different idea in their teaching and research by attaining the knowledge of the various facets of the cloud forensics but not limited to Cloud Computing, Incident Handling, Digital Forensics, Network Forensics, Hypervisor Investigation and Various Forensic Tools.

FDP CONTENTS

- Introduction of Digital Forensics in Cloud
- Recovery of overwritten data from Virtual Environment
- Integrity and trustworthiness of forensic data
- Vulnerabilities in Cloud management portal
- Detection of the malicious activities in Cloud
- Intelligence processes for real-time investigation
- Segregation of potential evidence in a multi-tenant system
- Synchronization of timestamps
- Missing terms in Service Level Agreement
- Testability, validation, and scientific principles for cloud forensics
- Hands on using Forensics Tools



RESOURCE PERSONS

Eminent experts from Industry, Premium Institute from Foreign University, IITs, NITs, CFTIs will share their knowledge and expertise as per the theme of the FDP.

TARGET PARTICIPANTS

Target participants of this FDP are faculty members of the AICTE approved institutions, Research scholars, PG students, participants from Government, Industry and Faculty members, Technical staffs of the host institutions.

REGISTRATION

- **No registration fees** to attend the FDP, however registration is compulsory for participation.
- Seat are limited and it will be filled up on first come first serve basis.
- Participants need to apply through AICTE-ATAL portal on or before the last data of registration as mentioned in the AICTE-ATAL portal.
- Follow the following steps to complete the registration:
 - Visit <https://atalacademy.aicte-india.org/signup> and register as a participant by filling your details.
 - Select Workshop
 - Select State Sikkim
 - Select Month-May
 - Select Thrust Area Cloud Forensics
 - Select Mode Online
 - Select- Cloud Forensics
- Selected participants will be informed in advance through e-mail

CERTIFICATE

Certificate will be provided to the participants after conformation and attendance criteria and securing the minimum eligibility marks in the test at the end of FDP.

CONTACT PERSON

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