

## **PREAMBLE**

Cyber Security awareness is one of the most important aspects that everyone must handle in their day-to-day operations. It is the practice of protecting systems, programs and networks from digital attacks. These cyberattacks are usually aimed at changing, accessing or destroying sensitive information, interrupting normal business processes, extorting money from users. Cybercrime is a crime that involves any illegal activity in a computer, another digital device or a computer network. Cyber Security and Digital Forensics are integral part of the organization's security services. Digital forensics analysts mainly work to retrieve, catalogue, and safeguard digital data related to criminal and cybercrime investigations. This will help to identify the difference between scientific conclusions and legal decision-making.

This One week programme will enlighten various issues, trends and challenges in the security of cybercrime and digital forensics for secure data and computer resources that are vulnerable to security threats. This short term course has been planned to create awareness about the potential threats that are vulnerable to the society. This programme will be organized to benefit the academicians, researchers and scientists who wish to learn the Cyber Security, Cyber Crime and Digital Forensics for their future teaching and research activities

## **COURSE CONTENTS**

- Cyber Security Attacks & Trends
- Investigation of Cyber Crimes
- Use of Computer Forensics for Crimes
- Machine Learning in Cyber Security
- Digital Forensics, Digital Evidences in Information Security
- Security issues for Resource Constraint Devices
- Ethical Hacking, Lightweight Cipher Designs
- Blockchain Technologies, Biometrics
- Vulnerability, exploitation tools, malware, botnet, DDoS attacks
- Web, e-commerce, m-commerce and e-mail security
- Mobile Device & File System Forensics
- Registry/ Malware/ Metadata Analysis
- Network/ Email Forensics
- Upcoming research Challenges in Cyber Forensics

## **RESOURCE PERSONS**

The resource persons for the short term course from reputed institutions, experts from R&D organizations, industries and host institution Puducherry Technological University.

## **ELIGIBILITY**

Faculty Members belonging to departments of AICTE approved Institution, Polytechnics Research scholars, Guest faculty, PG students, and participants from Government, Industry, are eligible to attend the short term course.

## **E-CERTIFICATE**

There is no course fee. E-Certificates will be issued by the participants who attend the FDP with minimum 80% of the sessions and secure 60% and above marks in the Final assessment test online will be conducted at the end of FDP.

## **REGISTRATION**

The participants can apply the application through the given url

**(<https://forms.gle/m5kzHFAjsaxqAALVA>)**

Selected candidates will be informed through e-mail only.

Last date for registration : 25.10.2021

Intimation of selection : 27.10.2021

Confirmation by Participants : 29.10.2021

## **MODE OF DELIVERY**

The FDP will be conducted through Google Meet (link will be shared with the participants who are selected to attend). There will be three sessions per day.

## **SESSION TIMINGS**

Session 1: 09.15 a.m. to 11:00 a.m.

Session 2: 11.15 a.m. to 01:00 p.m.

Session 3: 02.00 p.m. to 03:45 p.m.

## **CONDITIONS FOR APPLYING**

The participants are requested to register for this FDP, if and only if the applicant could get relieved from the regular duties from their respective organizations so as to attend all the 18 sessions fully.

## ABOUT THE INSTITUTION

Pondicherry Engineering College (PEC) is an autonomous institution started in the academic year 1985-86 under the seventh plan is promoted and fully funded by the Government of Puducherry. It is upgraded to Technological University status w.e.f September 5th, 2020. Ever since its inception, the college has registered speedy progress and it now offers nine undergraduate, thirteen post graduate courses, and PhD programmes in all branches of Engineering and basic Sciences. The college has been granted funds by NPIU under TEQIP Phase II and Phase III. PEC is ranked 144 in Engineering Category by NIRF India Rankings 2021. The college is situated at Pillaichavady, about 12 Km from Puducherry town and about 150 Km from Chennai along the scenic beauty East Coast Road (ECR) on the shores of the Bay of Bengal.

## ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering (CSE) was established during the inception of the college. The Department offers B.Tech (CSE), MCA, two M.Tech programmes with specializations on Data Science and Information Security and Ph.D programme (including QIP and NDF schemes). The Department has excellent infrastructure, computing facilities, library with several volumes of books, well equipped laboratories and equipment's that enable students to develop their practical skills.

## ABOUT PUDUCHERRY

Heritage is one of the most precious gifts, Puducherry offers to its tourists and visitors. The coastal town of Puducherry with the French ambience is known for the serene atmosphere. The great poet Subramaniya Bharathi, Bharathidasan, Sri Aurobindo are some of the legends associated with Puducherry. Sri Aurobindo Ashram, Auroville, Bharathi Park, Ousteri lake, Chunambar boat house, Botanical Garden, Manakula Vinayagar Temple, and Arikamedu (archaeological importance) are some of the major tourist attractions of Puducherry.

## ADDRESS FOR CORRESPONDENCE

### Dr. N. SREENATH

Professor, Coordinator, CCDTT 2021,  
Department Of CSE  
Puducherry Technological University,  
Puducherry-605014.  
E\_mail: [nsreenath@pec.edu](mailto:nsreenath@pec.edu)  
Mobile No: 9443289642

### Dr. J.I.SHEEBA

Assistant Professor, Coordinator,  
CCDTT 2021,  
Department Of CSE  
Puducherry Technological University,  
Puducherry-605014.  
E\_mail: [sheebea@pec.edu](mailto:sheebea@pec.edu)  
Mobile No: 9443084976

## ISEA PROJECT PHASE II SPONSORED

### ONLINE SHORT TERM COURSE

ON

### CYBER SECURITY, CYBER CRIMES & DIGITAL FORENSICS: TRENDS AND TECHNOLOGIES (CCD TT 2021)

NOVEMBER 10<sup>th</sup> -16<sup>th</sup>, 2021

### COORDINATORS

Dr. N. SREENATH  
&  
Dr. J.I. SHEEBA



Organized by

**Department of Computer Science &  
Engineering**

Puducherry Technological University  
(Erstwhile Pondicherry Engineering College)  
Pillaichavady, Puducherry – 605 014  
Website : [www.pec.edu](http://www.pec.edu)  
Fax : 0413 - 2655101