

ABOUT NIT

National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli, is one among the premier Institutions of India and is well known for its high standards in teaching and research. It offers 10 undergraduate and 23 postgraduate programs in disciplines spanning engineering, science, architecture and management. It has been declared as an Institute of National Importance by the Government of India under NIT Act. The college has been conferred with autonomy in financial and administrative matters to achieve rapid development. Because of this rich experience, this institution was granted Deemed University Status with the approval of the UGC/AICTE and Govt. of India in 2003 and renamed as National Institute of Technology. According to the Ministry of Human Resources Development, NIT Tiruchirappalli retained its No.1 position among all NITs, 5th year in a row in the “India Rankings 2020” released by NIRF. NIT Tiruchirappalli moved to 9th Rank in Engineering. The Institute has signed MoUs with various Industries and Institutions both in India as well as in abroad to promote collaborative research and consultancy.

AICTE – TEACHING AND LEARNING ACADEMY

AICTE - All India Council for Technical Education was established in 1945 by Government of India. The AICTE – Teaching and Learning Academy (ATAL) aims to plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas. This academy aims at inculcating the drive for research and knowledge enhancement among the faculty members, research scholars, PG scholars, and Industry personnel.

OBJECTIVE OF THE COURSE

Objective of this Faculty Development Program is to disseminate the knowledge of cryptology to faculty members, research scholars, UG and PG students.

COURSE COORDINATOR

Dr. Kunwar Singh
Department of CSE,
National Institute of Technology,
Tiruchirappalli,
Tamil Nadu – 620015



**A one week online
AICTE Training & Learning
Academy (ATAL) sponsored
Faculty Development Program**

on

**Introduction to
Cryptology**

24th – 28th November, 2021



**Organized by
Department of CSE
National Institute of Technology
Tiruchirappalli,
Tamil Nadu – 620015.**

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering established in the year 1983. The vision of the department is to produce Creators of Innovative Technology. The Department of Computer Science and Engineering with its cohesive team of faculty members, offers a sound program for B.Tech., M.Tech., M.S. and Ph.D. The curriculum is updated regularly to keep up with the growing demands and the changing trends of the software industry and research laboratories. Government of India has recognized this Department as a Centre for Quality Improvement Programme in PG and Ph.D. courses.

RESOURCE PERSONS

The resource persons are arranged from reputed institutions like NITs, IITs and other renowned institutions.

COURSE CONTENT

- Mathematical Foundation for cryptography
- Classical Cryptography
- Block Cipher and Stream Cipher
- MAC
- Hash Function
- Public Key Cryptography, RSA, ElGamal Cryptosystem
- ECC
- Digital Signature
- RSA Signature, Schnorre Signature,
- ECDSA
- Blockchain, Bitcoin

TARGET AUDIENCE

Faculties of engineering colleges, research scholar, M.Tech and B.Tech students.

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REGISTRATION

The interested applicants are directed to refer to the following website for registration,

<https://www.aicte-india.org/atal>

Step by step registration procedure is explained in Page 3 to 5 of this brochure

COMMUNICATION

Email: cryptoworkshopnit@gmail.com
Phone No: 8940966379

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STEP BY STEP REGISTRATION PROCEDURE

Step 1: click <https://www.aicte-india.org/atal>

Step 2: Click Participant registration for new FDP 2021 - 2022 (<https://atalacademy.aicte-india.org/signup>)

अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education

Home > ATAL

AICTE Training And Learning (ATAL) Academy

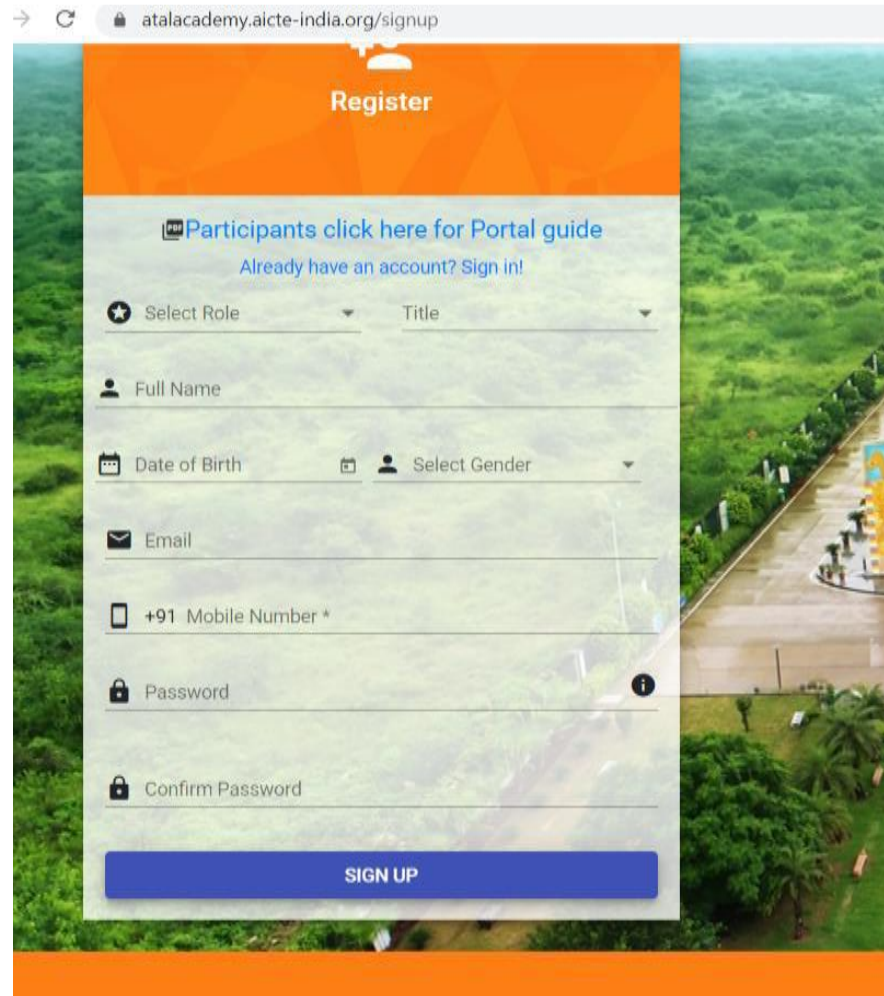
Login Sign up Verify Your Certificate

>>Participants Registration for new FDP 2021-22 **New!** Click here for participant registration

About ATAL Academy

ATAL Academy FDP Statistics 2021-22

Step 3: Enter your details in the participants portal



The image shows a web browser window with the URL `atalacademy.aicte-india.org/signup`. The page has an orange header with the word "Register" in white. Below the header, there is a link for "Participants click here for Portal guide" and a link for "Already have an account? Sign in!". The registration form consists of several input fields: "Select Role" and "Title" (both dropdown menus), "Full Name" (text input), "Date of Birth" (calendar icon) and "Select Gender" (dropdown menu), "Email" (text input), "+91 Mobile Number *" (text input with a phone icon), "Password" (text input with a lock icon and an information icon), and "Confirm Password" (text input with a lock icon). At the bottom of the form is a blue button labeled "SIGN UP". The background of the page is a green landscape with a fountain.

Step 4: Click “Workshops”. Select state as **Tamil Nadu**, month as **November**, Thrust area as **Thrust Areas** and choose **online mode**. Select the workshop title “**Introduction of Cryptology**” and submit the same.

10/7/21, 4:23 PM ATAL - AICTE Training And Learning (ATAL) Academy Logout

Participant
karthika231188@gmail.com

Workshops

Filter Workshops

Select State: TAMIL NADU Select Month: November Select Thrust Area: Thrust Areas Select Mode: Online

Workshop 1:
Title: **ROBOTICS- The Machine Power for Industrial Automation**
Level: **Elementary**
Mode: **Online**
Application No: **1614853778**
STARTS: **Nov 15, 2021** ENDS: **Nov 19, 2021**
Institute: **Sri Eshwar College of Engineering**
Thrust Area: **Thrust Areas**
Sub-thrust Area: **Robotics**
[Click here to download Workshop Brochure](#)

Workshop 2:
Title: **Machine Intelligence**
Level: **Elementary**
Mode: **Online**
Application No: **1614925164**
STARTS: **Nov 22, 2021** ENDS: **Nov 26, 2021**
Institute: **Loyola ICAM College of Engineering & Technology**
Thrust Area: **Thrust Areas**
Sub-thrust Area: **Artificial Intelligence**
[Click here to download Workshop Brochure](#)

Workshop 3:
Title: **Artificial Intelligence**
Level: **Elementary**
Mode: **Online**
Application No: **1614925164**
STARTS: **Nov 22, 2021**
Institute: **CENTRAL INSTITUTE OF TECHNOLOGY**
Thrust Area: **Thrust Areas**
Sub-thrust Area: **Artificial Intelligence**
[Click here to download Workshop Brochure](#)

Workshop 4:
Title: **Advances of Cryptography in Quantum Computing**
Level: **Elementary**
Mode: **Online**
Application No: **1615464633**
STARTS: **Nov 22, 2021** ENDS: **Nov 26, 2021**
Institute: **Dept. of Information Science and Technology, College of Engineering, Guindy Anna University.**
Thrust Area: **Thrust Areas**
Sub-thrust Area: **Quantum Computing**
[Click here to download Workshop Brochure](#)

Workshop 5 (Circled):
Title: **Introduction of Cryptology**
Level: **Elementary**
Mode: **Online**
Application No: **1615378199**
STARTS: **Nov 24, 2021** ENDS: **Nov 28, 2021**
Institute: **National Institute of Technology Tiruchirappalli**
Thrust Area: **Thrust Areas**
Sub-thrust Area: **Cyber Security**
[Click here to download Workshop Brochure](#)