NMAM Institute of Technology was established in 1986 and is affiliated to the Visvesvaraya Technological University, Belagavi. The institute is recognised by the All India Council for Technical Education, New Delhi and accredited by National Assessment & Accreditation Council [NAAC] with 'A' grade with a CGPA of 3.11 out of 4 till 20th October 2022. Seven UG Programs i.e., BE in Biotechnology, Civil Engineering, Computer Science & Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, Information Science & Engineering and Mechanical Engineering are accredited by NBA, New Delhi under Tier - I category till 30th June 2021. The institution has been granted Academic Autonomy under the Visvesvaraya Technological University from 2007-08 and certified to the ISO 9001:2015 standards for quality education by NVT Quality Certifications

**UG Courses Offered:**

* Aeronautical Engineering (AE)
* Computer Science Engineering (CSE)
* Electronics and Communication Engineering (ECE)
* Mechanical Engineering (ME)
* Information Technology (IT)
* Electrical and Electronics Engineering

**PG Courses Offered:**

* Aero Space Engineering (AS)
* CAD/ CAM (CAD)
* Digital Systems and Computer Electronics (DSCE)
* Embedded Systems (ES)
* Master of Business Applications (MBA)

The Department of ISE Started in 1999 with admission capacity of 40 students, the Department of Information Science & Engineering now offers UG programs with an intake of 180 students since 2019 and a PG program in Computer Network Engineering since 2012. Accredited by the National Board of Accreditation, the department has well-qualified and dedicated teaching and support staff and well equipped laboratories to fulfill the academic needs of the students.

***About The Institution***

***Program Objectives***



**Five Days FDP on**

**Machine Learning and Deep Learning Techniques for Cyber Security**

**(8 – 12 January 2024)**



***Organized By***

**Departent of ISE**

**N.M.A.M Institute of Technology, NITTE**

**N.M.A.M Institute of Technology**

**(Autonomous Institution)**

**(NBA Accredited, Approved by AICTE, Affiliated to VTU)**

Nitte, Karkala Taluk, Udupi - 574110

Karnataka, India

**Phone No:**+91 – 8258 – 281263

**Website:[www.nmamit.nitte.edu.in](http://www.nmamit.nitte.edu.in)**

This FDP explores the utilization of Machine Learning (ML) and Deep Learning (DL) techniques to bolster Cyber Security. Given the exponential increase in cyber threats, traditional security measures have proven insufficient, necessitating the integration of advanced, adaptive, and predictive technologies. This study delves into various ML and DL algorithms, their implementation, and their efficacy in detecting and mitigating cyber threats. We evaluate techniques such as Artificial Neural Networks, Support Vector Machines, and Random Forests for anomaly detection, malware classification, and intrusion detection, among other applications. Furthermore, we assess the capability of Deep Learning approaches, including Convolutional Neural Networks and Recurrent Neural Networks, to process large-scale, high-dimensional data for predictive cybersecurity. The study underscores the challenges, such as algorithmic transparency and data privacy, associated with the application of these methods and proposes potential solutions. The findings from this research signify a pivotal shift from rule-based to intelligent, adaptive cybersecurity systems that could dramatically improve threat prediction, detection, and response.

* This FDP gives awareness about recent trends in cyber security and research gaps in THIS DOMAIN
* This FDP educates about Machine Learning and Deep Learning APPROACHES FOR CYBER SECURITY.
* BLOCKCHAIN MODELS towards cyber security will also be addressed
* Important Hands-on sessions will give practical exposure too, to the participants.
* After the FDP completion, the participants will be able will be able apply machine learning and deep learning concepts for intrusion detection and internet security.

***Department of ISE***

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Department: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Institute Name & Address:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Contact Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of the Participant

 Date:

 Place:

 Signature of HOD/Dean

***Registration Details:***

*Registration : 200 rs*

*Mode of Payment: Electronic money transfer (NEFT)*

*Account Number:*

*Name of the account:*

*Bank:*

*Branch:*

*IFSC code:*

**Last Date for Registration**: 01/01/2024

Maximum Registrations limited: 5**0 only**

***Chief Patron:***

**Mr. N Vinaya Hegde**

*President, Nitte Education Trust*

***Patron:***

**Dr. Niranjan N Chiplunkar**

*Principal, NMAM Institute of Technology*

***Principal Advisors:***

**Dr.Ashwini B,**

*Head – Department of ISE, NMAM Institute of Technology*

***Program coordinators:***

**Dr. Usha Divakarla**

*Associate Professor, Dept. of ISE, NMAM Institute of Technology.*

**Dr.Manjula Gururaj Rao**

*Associate Professor, Dept. of ISE, NMAM Institute of Technology*

***Organizing Committee:***

**Mr. Deepak D**

Assistant Professor, Dept of ISE

**Ms. Alaka Ananth**

Assistant Professor, Dept of ISE

***Targeted Audience:***

The Proposed Five Days FDP is intended to the faculty, Researchers, students and community innovators who want to pursue their carrier in Cyber security.

***How to Apply:***

Registration form, dully filled, can be scanned and mailed to:

ushad@nitte.edu.in

Website: https://www.nmamit.nitte.edu.in

**Venue: NMAM Institute of Technology, Nitte**

For further Information contact:

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Email:ushad@nitte.edu.in

Dr. Manjula Gururaj Rao

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***Registration Form***