GRACE COLLEGE OF ENGINEERING

Thoothukudi - 628 005

ATAL Sponsored six days Faculty Development Program

on

AI POWERED CYBER SECURITY FOR SMART CITIES AND INDUSTRIAL CONTROL SYSTEM

Date : 14.07.2025 to 19.07.2025

Mode : OFFLINE

ABOUT THE INSTITUTION

Vision

- Developing technocrats with excellent conceptual understanding and skills for innovative solutions to societal needs.

Mission

- To impart conceptual understanding through excellent education and practical exposure.
- To provide platform for stimulating ideas through technical interactions and industrial exposures.
- To cultivate managerial and soft skills through leadership development workshops for entrepreneurship development.
- To inculcate ethical values and practices to exhibit genuine concern to serve society.
- GCOE is Approved by AICTE, New Delhi and Affiliated to ANNA UNIVERSITY , Chennai

ABOUT THE DEPARTMENT

Vision

- To impart quality education, to sculpt into innovators with ethical and creative talents of aspiring young professionals in Electrical and Electronics Engineering and thereby contributing value to society and industry with high human values.

Mission

- Empower students with the impact of Electrical and Electronics Engineering in the global scenario and the challenges of Electrical based industries and organizations.
- Build team ethics, leadership qualities and to cater to the overall development of the students in professional and research-oriented fields.

IMPORTANT DATES

FDP Start date
14.07.2025
FDP End date
19.07.2025

Registration Details

- **NO REGISTRATION FEE FOR THE PARTICIPANTS**
- Registration open to all the faculty members, Research Scholars & PG Scholars of the AICTE approved institutions and Industry personnel
- Registration Link:
  http://www.aicte-india.org/atal

For Registration Related Queries

ORGANIZING COMMITTEE

PATRONS

Mr. C. M. Joshua M.Sc.
Chairman, GRACE Group of Institutions, Thoothukudi

Mr. S. Stephen M.Sc., M.B.A.
Vice Chairman, GRACE Group of Institutions, Thoothukudi

Mrs. J. Rajkamal Petro B.Sc.,B.Ed.,M.A.
Secretary, GRACE Group of Institutions, Thoothukudi

CONVENOR

Dr.S.Richard M.Tech., Ph.D.
Principal, GRACE College of Engineering

TOPICS TO BE COVERED

- Smart Grid and Energy Infrastructure Security
- The role of cyber security in SCADA and Industrial Control Systems (ICS) security
- Smart City Data Analytics and AI Security
- Examples of AI Applications in cyber security
- Case Studies of Securing Public Safety System
- Training on Securing Communication Networks
- Predictions for the future of AI based cyber security and their role in achieving protection

Contact Details

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Organized by Department of Electrical and Electronics Engineering

www.grace.edu.in

ATAL OFFLINE 6 DAYS FACULTY DEVELOPMENT PROGRAMME 2025-26

FDP Thrust Area : Cyber Physical Systems and Cyber Security – Smart Cities

FDP Title : AI POWERED CYBER SECURITY FOR SMART CITIES AND INDUSTRIAL CONTROL SYSTEM

Day 1 - (14.07.2025)

DR. SUBBULAKSHMI T
Professor
VIT, Chennai

Title : Investigation of DDoS Attack Types and Mitigation Methods in Smart Cities

DR. SUBBULAKSHMI T
Professor
VIT, Chennai

Title : Machine learning for Intrusion Detection in Cyber Physical System

Day 2- (15.07.2025)

MR. KUMARAGURU
Senior technical trainer,
HB Educational Services

Title : AI for Real-Time Monitoring: Continuous surveillance of smart city and industrial system data.
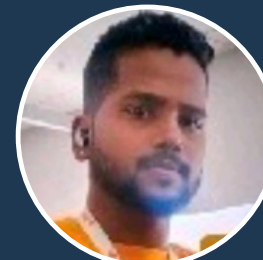
MR. KUMARAGURU
Senior technical trainer,
HB Educational Services

Title : AI as a Cybercrime Fighter: Revolutionizing Digital Threat Management

Day 3 - (16.07.2025)

MR. SHARATH KV
Principal Threat Analyst,
OPTIV, Bengaluru

Title : Exposing the Weak Links: Cyber Vulnerabilities in Smart Cities and Industrial Infrastructure

MR. ISAAC CHRISTOPHER
Cyber security & Threat Manager
Bengaluru

Title : Exploring Vulnerabilities in the Linux Operating System: Real Word Examples

Day 4 -(17.07.2025)

DR.M.K.NALLAKARUPPAN
Associate Professor,
Sri Balaji University, Pune

Title : Industrial cyber attacks and AI detection techniques

INDUSTRIAL VISIT

Day 5 - (18.07.2025)

DR. K. MANIMALA
Associate Professor
Anna University, Chennai

Title : AI vs AI: Cybersecurity in the Era of Intelligent Threats

DR. K. MANIMALA
Associate Professor
Anna University, Chennai

Title : Role of Artificial Intelligence, IoT and big data in smart building

Day 6 - (19.07.2025)

DR. U. SRINIVASULU REDDY
Associate Professor
NIT, Trichy

Title : Generative AI for Cyber Security: Issues, Challenges and Future Directors

MCQ & REFLECTION JOURNAL