

IMPORTANT GUIDELINES

Faculty members of the Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/ Technicians Participants from Industry etc.) and staff of host institutions are eligible to apply for the FDP.

Registration Fee : Nil

Registration link :

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

<https://atalacademy.aicte-india.org/signup>

Number of seats:

Limited to maximum 200. Participants are selected by organizers on first come first serve basis. All the participants should have Gmail account.

Event Details:

All the sessions will be conducted through online platform. The meeting links will be sent to the selected participants through Whatsapp/email. There will be an Inaugural Ceremony, 13 Technical sessions and one Fitness session, Online test/quiz and a valedictory.

An online test will be conducted by the coordinator at the end of the program.

Resource Persons

Academic experts are identified as Resource persons from premier institutions/ Universities



COORDINATOR:

Dr. S Saravanakumar, HOD , IT

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Last date for online Registration 25, Nov 2024

Date of intimation to the selected candidates (by Email or phone) 26, Nov 2024

Confirmation from participants (by Email/Phone) 26, Nov 2024

Certification: E-Certificates will be issued by AICTE Training and Learning (ATAL) academy to participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test

ATAL Academy: AICTE Training and Learning (ATAL)Academy is established with the vision “To empower faculty to achieve goals of Higher Education such as access, equity and quality”. AICTE is committed for development of quality technical education inthe country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understands that there is a need of the day to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines.



Department of Information Technology (SOET)

Organizes

Six Day Faculty Development Programme (FDP) on

CYBERSECURITY IN AI

02.12.2024 to 07.12.2024

At CMRU Lakeside Campus

Chagalhatti, Bengaluru,
Karnataka 562149

Sponsored by



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About the Institution

CMR University's, School of Engineering and Technology (SOET) in Bangalore is known for its high-quality engineering education, fostering innovation, and preparing students for industry needs. SOET offers a range of undergraduate and postgraduate programs in disciplines such as Computer Science, Electronics & Communication, Mechanical, Civil, and Information Technology, with a curriculum that emphasizes interdisciplinary learning, practical experience, and research.

The school maintains strong industry collaborations, providing students with real-world exposure through internships, workshops, and guest lectures. Research and innovation are key focuses at SOET, with dedicated research centers and incubation programs encouraging students to work on cutting-edge projects. The campus boasts state-of-the-art infrastructure, including modern laboratories and tech-enabled classrooms, supporting experiential learning and hands-on development. Alongside academics, students are encouraged to participate in technical fests, hackathons, and student clubs, fostering holistic growth.

The placement cell at SOET provides comprehensive career support, connecting students with top recruiters and preparing them for successful placements. Additionally, global exposure opportunities through collaborations with international universities enhance students' learning experiences. Overall, CMR University SOET equips students with the technical knowledge and critical skills required to thrive in the rapidly evolving field of engineering. CMRU offers six B.Tech Courses in Engineering viz., CSE, IT, ECE, E Comp, AI & DS and AIML Engineering and Post Graduate programmes viz., M.Tech with two specializations viz., Computer Science and Engineering, and Communication Engineering. All departments are well equipped with the state-of-the-art equipment, sophisticated laboratories, Computer Centres, with the most contemporary facilities backed by advanced computer systems and the latest software.

About the organizing Department

The Departments of Computer Science and Engineering (CSE) and Information Technology (IT) at CMR University's School of Engineering and Technology (SOET) were established in 2013. Known for its excellent faculty and state-of-the-art facilities, the department offers B.Tech and M.Tech programs,

in CSE designed to equip students with specialized knowledge in computer science and IT. These programs focus not only on technical expertise but also on the holistic development of students to prepare them for the challenges of the future. Taking advantage of its autonomous status, the department has developed a comprehensive and industry-linked curriculum. The curriculum includes innovative learning approaches such as practice-based and project-based learning, along with optional electives, skill development courses, co-curricular activities, and professional development modules. This forward-thinking approach ensures that students receive hands-on training and opportunities to engage with industry experts.

Course Objectives:

FDP on "CYBER SECURITY IN AI" to equip students with a comprehensive understanding of the intersection between emerging technologies and modern cybersecurity challenges. The primary objective is to explore how generative AI is shaping the future of cybersecurity, from threat detection to automated defense mechanisms. Students will gain insights into the potential vulnerabilities introduced by the Internet of Everything (IoE), where interconnected devices and systems create vast attack surfaces. The course also focuses on developing practical skills to safeguard digital infrastructures, emphasizing ethical considerations, privacy concerns, and the role of AI in ensuring secure and resilient systems. By the end of the course, students will be prepared to address the dynamic challenges posed by generative AI and IoE in the ever-evolving landscape of cybersecurity.

Tentative Topics to be covered

- AI-Powered Cybersecurity Solutions
- Block chain for Cybersecurity in IoE
- Future of Cybersecurity
- ethical Hacking
- Quantum Computing and its Impact on Cybersecurity
- Cybersecurity in IoE & Securing AI Systems in the IoE
- Privacy and Data Protection in IoE
- Advanced Cybersecurity Techniques
- AI and IoE in Cyber Defense
- Machine Learning for Malware Detection
- Generative AI
- The Future of AI and IoE

Experts Detail:

Session 1 - Cybersecurity in AI

Dr. Balamurugan Easwaran (Chief Guest)

Professor and Deputy Vice Chancellor Academics, Texila American University, Zambia

Dr. Xiachui Yuan

Department of Computer Science and Engineering, University of North Texas, P.O. Box 311366, Denton, TX 76203

Session 2 - Topic: Generative AI

Dr. J.Dafni Rose

Professor, Department of CSE, St. Joseph's Institute of Technology, OMR, Chennai

Session 3 - AI-Powered Cybersecurity Solutions

Dr. Dr Srinath Doss

Professor and Dean, Botho University, Botswana

Session 4 - Securing AI Systems in the IoE

Dr. Justin Dhas Y

Assistant Professor. Dept of CSE, Easwari Engineering College, Chennai

Session 5 - Blockchain for Cybersecurity in IoE

Mr. Sabarinath Premial

CEO Respro Labs, Chennai Tamil Nadu, India

Session 6 -Privacy and Data Protection in IoE

Dr. Nirmalrani V

Professor, Department of CSE, School of Computing Satyabhama Institute of Science and Technology Chennai

Session 7 - Future of Cybersecurity in IoE and AI

Sibi Chakkaravarthy S

Associate Professor, Vellore Institute of Technology – Andhra Pradesh (VIT-AP), India.

R Sathish Kumar

Director, Zimro Solutions, Chennai, Tamil Nadu, India

Session 8 - Advanced Cybersecurity Techniques

Dr. Prasad M

Assistant Professor, Department of CSE, VIT Chennai, Tamil Nadu

Session 9 - Ethical Hacking

Dr. J. Jegan

Professor, Department of CSE, School of Technology, The Apollo University, Chittoor, Andhra Pradesh, India.

Session 10 - AI and IoE in Cyber Defense

Dr. Suma T

Professor, Department of Computer Science and Engineering, Sri Venkateshwara College of Engineering, Bengaluru

Session 11 - Quantum Computing & its Impact on Cybersecurity

Dr. Mohan M

Assistant Professor Dept of CSE, Madanapalle Institute of Technology and Science (MITS), Andhra Pradesh, India

Session 12 - Machine Learning for Malware Detection

Mr. Kumaresan M

Technical BI Professional, Bengaluru, Karnataka, India

Session 13 - The Future of AI, Cybersecurity, and IoE

Dr. Mohanaprakash T A

Associate Professor, Department of IT, CMR University, Bengaluru

Dr. Karthikeyan Saminathan

Asst. Vice president & Global Head, Learning and Development (AI, Analytics and Cyber Security), Bluechip CyberTech Services Pvt Ltd, Bangalore Karnataka -43

