



and



**ACM India-VIT Winter School**  
on  
**Cryptography**  
and  
**Cybersecurity**

**27<sup>th</sup> Nov. 2023 - 9<sup>th</sup> Dec. 2023**

**Organized by**  
**School of Computer Science Engineering**  
**& Information Systems**

**Vellore Institute of Technology**  
**Vellore**

**About Vellore Institute of Technology**

Vellore Institute of Technology (VIT) was established in the year 1984 as Vellore Engineering College by the founder and Chancellor Dr. G Viswanathan at Vellore. In recognition of its excellence in academics and research, the University status was conferred in the year 2001 by the MHRD. From its humble beginning, the institution has grown exponentially to that of having more than 40,000 students at present. Students from all the states of India and from 67 countries are studying at VIT. As per the QS World University Rankings by Subject 2023: Engineering & Technology, VIT stands in the 240 positions in the world and is the 9th best in India. The institute stands within the 201-250 band in the world and 8th rank in India under the subject of Computer Science and Information Systems. In the same survey, eight subjects of VIT are within the top 500 in the world. VIT is also ranked as the 8th best University, 11th best research institution, and the 11th best engineering institution as per the NIRF ranking, Govt. of India, 2023, The Institution has obtained the highest grade of A++ from the National Assessment and Accreditation Council (NAAC) in the fourth cycle.

**About SCORE**

The School of Computer Science Engineering and Information Systems (SCORE) offers programmes such as B.Tech in Information Technology, M.Tech Software Engineering (Integrated), MCA, BCA, B.Sc (CS), and Ph.D. programme. The school strongly emphasizes comprehensive education in

order to prepare students for progressive careers in the information technology sector and for service to society. It continuously aims to maintain its curricula and courses up-to-date with the latest technical developments and industry best practices. Students are motivated to utilize their learned knowledge and skills in solving real-world problems and doing research in thrust areas. The School's placement record is impressive and students get placed in reputed organizations every year. The School's postgraduate and research programme encourages students to investigate cutting-edge technologies and their findings are realized in the form of patents and research publications. Currently, the school has 187 faculty members and more than 6000 students.

As per the data released by Stanford University and Elsevier for the AY2022, ten faculty members from the school have been recognized as the top 2% of scientists and performing exemplary research activities. Besides, the school has increased its research commitments to innovation and sustainable development towards society by acquiring funding from reputed agencies like DST, MHRD, DRDO, ISRO, EPEU, and the British Council, UK.

**About the ACM India-VIT Winter School**

India is moving towards Digital India exponentially. "Cryptography and Cyber Security " provides in-depth knowledge of cryptography and cybersecurity. The winter school focuses on covering all cryptography and cyber security landscapes theoretically and practically. The sessions are designed in such a way that a candidate can identify, analyze, and remediate computer security breaches by learning and implementing real-world scenarios.

Further, it is planned to provide sessions on application security, enterprise security, and network security as well.

The event will run for **Twelve days in offline mode** with the expected number of participants. On the final day of summer school, there will be a one-day hackathon allowing the participants to develop and showcase their acquired knowledge in cybersecurity and forensics.

## Organizing Committee

### Chief Patron

**Dr. G. Viswanathan**  
Chancellor, VIT

### Patrons

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Dept. of Computer Applications, SCORE

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**Dr. Aswani Kumari Cherukuri**  
Professor Higher Academic Grade  
Dept. of Information Technology, SCORE

**Dr. Chandra Mouliswaran S**  
Associate Professor  
Dept. of Smart Computing, SCORE

**Dr. M. Priya**  
Associate Professor  
Dept. of Computer Applications, SCORE

## Expert Talks Scheduled

- Cryptography
- Application Security
- Enterprise Security
- Network Security
- Information Gathering for Penetration Testing
- Dissecting malware traffic
- Deploying Snort
- Security operations, and incidence response using Splunk.

## Resource Persons

- Dr. Aishwarya T, IIT Madras
- Dr. Mukul Joshi, IIT Bombay
- Dr. Arun Raj Kumar, `NIT Calicut
- Dr. V. Anilkumar, CSIR-4PI, Bengaluru
- Dr. Ravi Sheth, RRU, Gandhi Nagar
- Dr. Sibi Chakkravarthy, VIT AP, Amaravathi
- Dr. Aswani Kumar Cherukuri, VIT Vellore
- Mr. Paul Amalraj, TCS Chennai
- Ms. Sindhuja Rao, CISCO Bengaluru
- Ms. Pooja Bharadwaj, CISCO Bengaluru

## Lecture Schedule

S. No.	Date	Session Details
1	27.11.2023 (Monday)	<b>Title: Cryptography</b> Resource Person: Dr. Aswani Kumar Cherukuri, VIT Vellore
2	28.11.2023 (Tuesday)	<b>Title: Cryptography</b> Resource Person: Dr. Aishwarya T, IIT Madras
3	29.11.2023 (Wednesday)	<b>Title: Cryptography</b> Resource Person: Dr. Aswani Kumar Cherukuri, VIT Vellore
4	30.11.2023 (Thursday)	<b>Title: Application Security</b> Resource Person: Dr. Mukul Joshi, IIT Bombay
5	1.12.2023 (Friday)	<b>Title: Enterprise Security</b> Resource Person : Mr.Paul Amalraj, TCS Chennai
6	2.12.2023 (Saturday)	<b>Title: Information Gathering for Penetration Testing</b> Resource Person: Dr. Ravi Sheth, RRU, Gandhi Nagar
7	4.12.2023 (Monday)	<b>Title: Dissecting Malware Traffic, Deploying Snort, Security Operations, and Incidence Response using Splunk</b> Resource Person: Dr. Sibi Chakkravarthy, VIT AP, Amaravathi
8	5.12.2023 (Tuesday)	<b>Title: Dissecting Malware Traffic, Deploying Snort, Security Operations, and Incidence Response using Splunk</b> Resource Person: Dr. Sibi Chakkravarthy, VIT AP, Amaravathi
9	6.12.2023 (Wednesday)	<b>Title: Network Security: Traffic Analysis</b> Resource Person: Ms.Sindhuja Rao, Pooja Bharadwaj, CISCO Bengaluru
10	7.12.2023 (Thursday)	<b>Title: Network Security: Traffic Analysis</b> Resource Person: Ms.Sindhuja Rao, Pooja Bharadwaj, CISCO Bengaluru
11	8.12.2023 (Friday)	<b>Title: Network Security: VPN, IDS</b> Resource Person: Dr. Arun Raj Kumar, NIT Calicut
12	9.12.2023 (Saturday)	<b>Title: Network Security: Darknet &amp; Hackathon</b> Resource Person: Dr. V. Anilkumar, CSIR-4PI, Bengaluru.