



A One Week Faculty Development Program on
Mastering Software Security and Vulnerability Assessment
Sponsored by ISEA Phase 3 Under Systems & Software Security
01 to 05 December 2025, Hybrid Mode
Organized by IIITDM Kancheepuram, Chennai-600 127



Venue	HYBRID MODE	About US: http://web.iiitdm.ac.in/noor/
Objective	This Faculty Development Program provides theoretical knowledge and practical, hands-on training in cybersecurity. The FDP covers security vulnerabilities, risk assessment, and the fundamentals of software and application security. Participants will explore the "24 deadly sins of software security," learning to identify and fix common programming flaws. The program also details the techniques and tools for a secure software development lifecycle, featuring practical demonstrations of vulnerability assessment and threat intelligence using open-source tools.	
Topics to be Covered	• Introduction to Security • Vulnerabilities in the Systems and Software • Vulnerabilities Assessments and Risk Assessment • Introduction to Software Security • 24 Deadly sins of Software Programming • Application Security • Secure Software Development Life Cycle • Secure Coding Practices • Threat Intelligence.	
Target Audience	Faculty Members Teaching to M. Tech/MCA/BCA/BSc and B. Tech Students working in the area of Cyber Security and Programming.	
Prerequisite	Participant should have the basic working knowledge of Programming, and Computer.	
Registration Details	Registration Link: https://forms.gle/a4egwxD51pduVzx86	
Registration Fees	NIL (Recommendation Letter and approval from HOD/Dean/Principal/Director in the prescribed form is necessary to confirm your registration)	
Payment	NIL (for Registration, Food and Hostel Type Accommodation for All 5 Days) In Person only 20 Seats and 50 Online Seats .	
Contact Info:	Dr Noor Mahammad Sk , PI, Organizing Chair (http://web.iiitdm.ac.in/noor/) Dr Sanjeet Kumar Nayak , Co-Organizing Chair (Physical Mode FDP) Dr B Krishna Priya , Co-Organizing Chair (Online Mode FDP) Dr Amlan Joseph Antony , Co-Organizing Chair (Program) Indian Institute of Information Technology, Design and Manufacturing (IIITDM) Kancheepuram Melakottaiyur, Vandalur - Kelambakkam Road, Chennai - 600 127, Tamil Nadu, India. For enquiry and clarification, please contact: Email: noor@iiitdm.ac.in; 044-2747 6349/ 91760 10587(M)	



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		Time(Hrs)	Topic	
DAY 1	01 DEC 2025 MON	0930-1100	Introduction to Security, Threats and Vulnerabilities	
		1115-1230	Computer and Network Vulnerabilities	
		1400-1530	Practice Session1: Injection Attacks Demonstration	
		1530-1700	Practice Session2: Programming Errors Demonstration	
DAY 2	02 DEC 2025 TUE	0930-1100	Computer and Network Vulnerabilities	
		1115-1230	Vulnerability Assessment	
		1400-1530	Practice Session3: Broken Authentication & Session Management	
		1530-1700	Practice Session4: Cross-Site Scripting (XSS)	
DAY 3	03 DEC 2025 WED	0930-1100	Risk Analysis and Risk Assessment	
		1115-1230	Software Programming Sins and Fixes	
		1400-1530	Practice Session5: Static Vulnerability Assessment	
		1530-1700	Practice Session6: Dynamic Vulnerability Assessment	
DAY 4	04 DEC 2025 THU	0930-1100	Software Programming Sins and Fixes	
		1115-1230	Application Security	
		1400-1530	Practice Session7: Insecure Direct Object References	
		1530-1700	Practice Session8: Security Misconfiguration	
DAY 5	05 DEC 2025 FRI	0930-1100	Secure Software Development Life Cycle	
		1115-1230	SSDLC Tools and Techniques and Threat Intelligence	
		1400-1530	Practice Session9: Missing Functional Level Access Control	
		1530-1700	Practice Session10: Understanding Memory Related Bug Detector	

Resource Person Details		
Dr Noor Mahammad Sk	Associate Professor	Dept of CSE., IIITDM Kancheepuram
Dr Sanjeet Kumar Nayak	Assistant Professor	Dept of CSE., IIITDM Kancheepuram
Dr B Krishna Priya	Assistant Professor	Dept of CSE., IIITDM Kancheepuram
Dr K Gnanambikai	Assistant Professor	Dept of CSE., IIITDM Kancheepuram
Dr Amalan Joseph Antony A	Assistant Professor	Dept of CSE., IIITDM Kancheepuram
Dr B Pradeep Kumar G	Assistant Professor	Dept of CSE., IIITDM Kancheepuram
Dr Dhayalakumar M	JRF	Dept of CSE., IIITDM Kancheepuram
Mr Mohit Bhasme	PhD Scholar	Dept of CSE., IIITDM Kancheepuram



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Recommendation Letter for Faculty
(Duly signed by HoD/Dean/Director/VC/Principal of the Institute)

This is to Certify that Dr/Mr/Ms Designation
with of Department of
Organization name is
approved to attend the one week Faculty development program on Mastering Software Security
and Vulnerability Assessment sponsored by ISEA Phase 3 by Ministry of Electronics and
Information Technology Government of India, organized by Indian Institute of Information
Technology Design and Manufacturing Kancheepuram, Chennai – 600 127, during the period of
01 December to 05 December 2025.

Mode of Attending: ONLINE/ OFFLINE

Signature of the Attendee:

Date:

Place:

Signature of

(HoD/Dean/Principal/Director/VC)

Name:

Seal:

Note: Kindly upload the scanned copy for registration confirmation.