



शिक्षा मंत्रालय
MINISTRY OF
EDUCATION



Scheme for Promotion of Academic and Research Collaboration

SPARC Sponsored Workshop on

Applying LLMs to Secure Software Development

October 12 – 22, 2026 | Department of Computer Applications, NIT Tiruchirappalli

OVERVIEW

This workshop aims to give a broad exposure to AI-assisted secure software development practices. Participants explore how tools such as Gemini, Claude Code, Code Llama, and GitHub Copilot support code generation, debugging, documentation, and optimization via natural-language prompts, through expert lectures and hands-on sessions.

ABOUT THE INSTITUTE

The National Institute of Technology, Tiruchirappalli (NIT-T), formerly known as Regional Engineering College (REC), was established in 1964 through a collaborative effort between the Indian and Tamil Nadu governments. Over the years, it has evolved into a Deemed University and, in 2007, gained the status of an Institution of National Importance.

ABOUT SPARC

The Scheme for Promotion of Academic and Research Collaboration (SPARC) aims to strengthen the research ecosystem of India's Higher Educational Institutions by promoting academic and research collaborations between Indian institutions and leading institutions worldwide.

ABOUT THE DEPARTMENT

The Department of Computer Applications is one of the institution's pioneering departments. The department currently offers three full-time postgraduate programmes: a three-year Master of Computer Applications (MCA), a two-year M. Sc. in Computer Science, and a two-year M. Tech. in Data Analytics and Research Programs. It comprises 18 faculty members and is actively involved in both research and teaching.

PROGRAM DETAILS

OBJECTIVES

- To understand LLM fundamentals and their role in modern software development.
- To explore how LLMs assist secure code generation from natural-language prompts.
- To develop prompt-engineering skills for accurate, optimized outputs.
- To learn debugging, refactoring & optimization using LLM-based assistance.

THE FACULTY

- Prof. Balakrishnan Dasarathy — University of Maryland, USA
- Prof. Douglas C. Schmidt — William & Mary, USA
- Dr. B. Janet — Dept. of Computer Applications, NIT Trichy
- Dr. S. Saroja — Dept. of Computer Applications, NIT Trichy

Resource Persons

- Dr. N. Muraleedharan, Scientist F, C-DAC Bangalore
- Dr. Sanjeev Kumar, Associate Director, C-DAC Mohali

YOU SHOULD ATTEND IF...

- Student at all levels (B.Tech. / M.Sc. / M.Tech. / Ph.D.) with limited to expert programming knowledge (Day 1 to Day 5).
- Engineer, Researcher and Manager from government or industry, including R&D laboratories (Day 1 to Day 10).
- Faculty from academic and technical institutions (Day 1 to Day 10).

The number of participants for the course will be limited to fifty.

TOPICS TO BE COVERED

- Gen AI and LLMs
- Prompt Engineering
- Code LLMs and Agentic Code Development
- Building and Training an LLM
- Security Fundamentals in Software Development
- Code Optimization using LLMs
- Security Vulnerabilities in AI-Generated Code

- Bill of Materials
- Next-Generation Security Tools
- Ethical and Societal Implications
- Job and Career Landscape

Plus: Hackathon

WORKSHOP SCHEDULE

Full Workshop Schedule: [View schedule \(Google Drive\)](#)

REGISTRATION FEES

Category	Course Fee*	Food & Refresh.	Total (INR)
UG / PG Students	NIL	1500	1500
Research Scholars	750	1500	2250
Faculty	1500	1500	3000
Industry Personnel	8000	1500	9500

*Payment window: 3 Aug 2026 – 2 Oct 2026 *(incl. 18% GST)*

The number of participants for the course will be limited to 50.

The above fee includes all instructional materials, computer use for tutorial assignments, laboratory equipment usage charges, working lunch and refreshments. You are encouraged to bring your laptop. No TA/DA will be paid.

Participants may be provided with hostel accommodation, subject to availability, for an additional fee.

Register for the course using the Google form: <https://forms.gle/XAYent6EcoLxCQpk9>

HOW TO PAY

Indian participants

Go to State Bank Collect (onlinesbi.sbi) → Accept the terms and conditions → Select category: Educational Institutions → Select State: Tamil Nadu → Select Name of the Educational Institution: Conference and Workshop NIT Trichy → Select payment category: LLMSSD2026 → provide payment details and submit.

International participants

Payment must be made via SWIFT transfer. Account Number: 38322028974 | Account Name: Director, NIT-Tiruchirappalli | SWIFT Code: SBININBB190 | Bank Name: State Bank of India.

CONTACT

Coordinators: Dr. (Mrs.) B. Janet and Dr. S. Saroja, Department of Computer Applications, NIT, Tiruchirappalli.

E-mail: llmssd2026@gmail.com

NITT is located on Tanjore Main Road, National Highway 83, between BHEL and Thuvakudi. [View on Google Maps](#)