AJAY KUMAR GARG ENGINEERING COLLEGE, GHAZIABAD

Department of Computer Science & Engineering | In association with E&ICT Academy, NIT Warangal | MeitY, GoI

PROGRAMME REPORT

6-Day Hybrid Faculty Development Programme (FDP)

"Supercomputing in Education: Applications and Implementation Strategies"

06–11 July 2026 | Mode: Hybrid (Offline 06–07 Jul, Online 08–11 Jul) | Total Billed: 38 hrs | Participants: 40

Overview

The Department of Computer Science & Engineering, AKGEC Ghaziabad, in association with the **Electronics & ICT Academy, NIT Warangal**, under the aegis of **MeitY, Government of India**, successfully conducted a **6-Day Hybrid Faculty Development Programme** on *"Supercomputing in Education: Applications and Implementation Strategies"* from **06–11 July 2026**. The programme brought together faculty members, research scholars, and professionals from engineering institutions across India, offering **38 billed hours** of expert-led sessions covering High Performance Computing (HPC), Parallel Programming, GPU & CUDA Computing, AI/ML on HPC, Cloud-Edge NLP, LLM-driven Software Development, and NSM Cluster Demonstrations under India's National Supercomputing Mission.

Day-wise Programme Schedule

Date	Mode	Sessions & Topics	Billed Hrs
06 Jul (Mon)	**OFFLINE**	BA: HPC Fundamentals, Supercomputer Architecture, Blade Server, NSM India LK: ML Pipelines & Parallel Computing — Sessions 1–8	**8**
07 Jul (Tue)	**OFFLINE**	OP: HPC-AI-Quantum Convergence (S9–10) AV: HPC Use Cases & NSM Facilities (S11–12) LK: ML Pipelines & Parallel Computing — Sessions 13–16	**8**
08 Jul (Wed)	**ONLINE**	SG: LLM for SW Dev — ChatGPT Tool I–II, Requirements I–II (S17–20) MKP: Cloud-Edge Enabled NLP — Deploying LLMs for Scalable Real-Time Apps (S21–22)	**6**
09 Jul (Thu)	**ONLINE**	SG: LLM for SW Dev — Design I–II, Testing I–II (S23–26) SKP: Task Scheduling for LLM Serving I–II (S27–28)	**6**
10 Jul (Fri)	**ONLINE**	SVK & Team (C-DAC): NSM Cluster Demo 1–4 (S29–32) SG: LLM for SW Dev — Fuzzing I–II (S33–34)	**5**
11 Jul (Sat)	**ONLINE**	PRK: AI to Generative AI — Trends & Applications I–IV (S35–38) SG: LLM for SW Dev — Fuzzing III–IV + Closing (S39–40)	**5+Closing**

Speaker Key: BA — Dr. Balakrishnan Athiyaman, Prof. of Practice, SRM University & Former HPC Head, NCMRWF, MoES | OP — Dr. Om Pal, Dept. of CS, University of Delhi | LK — Dr. Lov Kumar, Dept. of CSE, NIT Kurukshetra | AV — Dr. Akhilesh Verma, FDP Coordinator, Dept. of CSE, AKGEC Ghaziabad | SG — Dr. Sangharatna Godboley, Dept. of CSE, NIT Warangal | MKP — Dr. Manoj Kumar Patra, Dept. of CSE, NIT Warangal | SKP — Dr. Sanjaya Kumar Panda, Dept. of CSE, NIT Warangal | PRK — Prof. P. Radha Krishna, Professor, Dept. of CSE, NIT Warangal | SVK — Dr. Sabbi Vamshi Krishna, Project Manager, C-DAC Pune

Programme Outcomes & Impact

40 faculty participants from engineering colleges across India gained hands-on exposure to NSM infrastructure, PARAM Shavak cluster demonstrations, parallel programming (MPI/OpenMP), GPU computing, LLM-driven software engineering, and Generative AI applications. The programme successfully bridged the gap between national supercomputing infrastructure and academic curriculum, equipping participants with skills to integrate HPC into their teaching and research. Government-recognised certificates were issued by **E&ICT Academy, NIT Warangal** upon successful completion, endorsed by MeitY, Government of India.


Message
Supercomputing is no longer a specialized research


A Hybrid Faculty Development Programme (FDP) on
Supercomputing in Education: Applications and Implementation Strategies
(06th to 07th July Physical/Offline & 08th to 11th July Online (on Meet), 2026)
Organized by
Electronics & ICT Academy, NIT Warangal
(Sponsored By Ministry of Electronics and Information Technology (MeitY, GoI)
In Association With
Ajay Kumar Garg Engineering College, Ghaziabad, Uttar Pradesh
DR. SALAKRISHNAN ATHYAMAN
DR. AKHILESH VERMA
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