



SRINIVASA INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC – Autonomous Institution)

(Approved by AICTE, Permanently affiliated to JNTUK, Kakinada, ISO 9001: 2015 certified Institution)
(Accredited by NAAC with 'A' Grade; Recognised by UGC under sections 2(f) & 12(B))
NH-216, Amalapuram-Kakinada Highway, Cheyyeru (V), AMALAPURAM -533216.

FDP Application Number: **1747933513**

Title of the FDP: **International Trends in AI and Supercomputing for Climate, Energy & Health**

FDP Start Date : 08/09/2025

End Date: 13/09/2025

<https://meet.google.com/ohz-oyuw-eew>

Day 1 Date 8-9-2025

(Time :6:00PM – 6:30PM)

Inauguration

Opening Remarks by



Principal : **Dr K Suresh Babu- (5 to 10 mins)**

Keynote: **“Role of AI & Supercomputing in Solving Global Solutions (25 to 30 mins)**



Name of the Expert: **Suresh Kumar Bantu Billi**

Designation: Head of Middleware Engineering"

Organization: Barclays Technology Centre Pune Maharashtra

Day 1 Date 8-9-2025

(Time 6:30 PM – 8:00 PM)

Session 1

Topic: Introduction to Advanced Computing: HPC, AI, and Quantum Trends. AI for Satellite Data Interpretation and Weather Forecasting (1:30 mins)



Name of the Expert: **Dr. N.V Ganapathi Raju**

Designation: Team Head

Organization: Vcube Software Solutions Pvt.Ltd, Hyderabad

Day 1 Date 8-9-2025

(Time 8:00PM – 9:00PM)

Session-2

Topic: AI + Supercomputers for Climate-Resilient Cities(1 hour)



Name of the Expert: **M. Sunilkumar**

Designation: Founder &CEO

Organization :Dream step Software Innovations Pvt.Ltd

United States

4628 Sandyford Ct, Dublin,

CA 94568



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Day 2 Date 9-9-2025

(Time:6:00PM – 7:30PM)

Session 3

Topic: **Climate Modeling using Supercomputers – IPCC and CMIP Projects.**
AI for Satellite Data Interpretation and Weather Forecasting



Name of the Expert: **Prof Ramalingaswamy Cheruku**

Designation : Asst Professor Grade 1 Department of Computer Science and Engineering

Organization: National Institute of Technology Warangal, Telangana, India

Day 2 Date 9-9-2025

Time 7:30 PM– 9:00 PM)

Session-4

Topic: AI for Satellite & Weather Data

Tools: Open Climate, Google Earth Engine, and CESM (**Hands-on**): Data Analysis of Climate Datasets using Python



Name of the Expert: **Dr. S Vijayakumar**

Designation: Professor at Gokaraju Ranga Raju Institute of Engineering and Technology



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End Date : **13/09/2025**

Day 3 Date 10-9-2025

Time 6:00 PM– 7:30 PM)

Session-5

Topic: **Smart Grid Optimization using AI. Supercomputing in Nuclear, Wind, and Solar Simulations**



Name of the Expert: **Prof Ramalingaswamy Cheruku**

Designation : Asst Professor Grade 1 Department of Computer Science and Engineering

Organization: National Institute of Technology Warangal, Telangana, India

Day 3 Date 10-9-2025

(Time 7:30 PM– 9:00PM)

Session-6

Topic: Privacy-Preserving AI for Smart Energy Systems: Global Trends and Applications"



Name of the Expert: **Dr Vankamamidi Srinivas Naresh**

Designation: Professor of Computer Science and Engineering & Dean Research and Development

Organization: Sri Vasavi Engineering College (A)



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Day 4 Date 11-9-2025

(Time 6:00 PM– 7:30PM)

Session-7

Topic: AI for Diagnostics, Imaging, and Predictive Healthcare. HPC Applications in Genomics and Drug Discovery



Name of the Expert: **Dr Sucharitha Reddy**

Designation: Professor. Of Computer Science and Engineering

Organization: Anurag University, Hyderabad, Telangana

Day 4 Date 11-9-2025

(Time 7:30PM – 9:00PM)

Session-8

Topic: "Privacy-Preserving Healthcare Prediction with Fully Homomorphic Encryption"

Name of the Expert: **Dr Vankamamidi Srinivas Naresh**



Designation: Professor of Computer Science and Engineering & Dean Research and Development

Organization: Sri Vasavi Engineering College (A)



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Day 5 Date 12-9-2025

(Time 6:00PM – 7:30pm)

Session -9

Topic: Global Projects: EuroHPC, AI for Earth, and NIH AI Initiatives. Ethical AI, Data Privacy & Regulatory Frameworks (GDPR, HIPAA)



Name of the Expert: Dr.Chalavadi Vishnu

Designation: Asst Professor

Organization: Indian Institute of Technology Tirupati ,Andhrapradesh

Adversarial Autonomous Dynamical Systems, Computer Vision, DL

Day 5 Date 12-9-2025

(Time 7.30PM-9.00PM)

Session-10

Topic: International Research and Funding Opportunities (Horizon Europe, NSF, Indo-US Projects). Future of Interdisciplinary Research in AI & Supercomputing”



Name of the Expert: Dr Swadesh Kumar Singh PhD,IIT Delhi
Professor of Mechanical Engineering & Dean R&D ,GRIET,Hyderabad



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DAY 6

DATE 13-09-2025
(Time 2:00 PM– 3:30PM)

Session 11

Topic : **AI Based Clean Energy for Future Power Generation**



Name of the Expert: **Dr. Pokanati V. V. Rama Rao**, Professor & Head, department of EEE

MVSR Engineering College, Hyderabad



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Day 6 Date 13-9-2025

(Time 3.30PM-5.00PM)

Session-12

Topic: AI in Public Health Surveillance (e.g., COVID-19 modeling). Name of the ML Libraries for Medical Data Analysis (Pandas, Scikit-learn)

Case Studies: Top Supercomputers of the World and Their Applications. :
Introduction to Python for Scientific Computing



Dr. S.Viswanadha Raju Senior Professor of CSE and Principal JNTUH UCEJ, Nachupally,
Jagtial District, Telangana, India