

## About the FDP

The application of Artificial Intelligence (AI) in enhancing disaster resilience and fostering sustainable development focuses on utilizing AI to anticipate, avert, and address disasters, alongside advancing enduring sustainability objectives. AI can contribute to the sustainability consideration processes in a more efficient and resilient way. Addressing ethical, data privacy and security concerns, and adoption and training needs is vital. AI implementation and management is essential to harness the full sustainability potential. By incorporating AI at multiple stages of disaster management and development planning, societies can build resilience and ensure sustainable development that is responsive to current and future challenges.

## About JNU

Jawaharlal Nehru University established in 1969, is a vibrant campus in India, and a world-renowned centre for learning, teaching and research. Ranked number one in India by the National Assessment and Accreditation Council (NAAC) with A++, and ranked no 2 among all universities in India by the National Institutional Ranking Framework, Government of India, in 2023. JNU also received the Best University Award from the President of India in 2017. The School of Computer and Systems Sciences laid the foundation in the late 1970's to initiate the academic programs in the realm of computer science. It was amongst the earliest centers in India for higher education and research in the field. School has been acting as a beacon under its resolute load-star ever since its inception.

### Chief Patron

**Prof. Santishree Dhulipudi Pandit**  
Vice Chancellor

### Patron

**Prof. Zahid Raza**

Dean, School of Computer & Systems Sciences

### Coordinator

**Dr. POONGUZHALI N**

Associate Professor, SC&SS, JNU

### Co-Coordinator

**Dr. VIKAS MITTAL**

Assistant Professor, SC&SS, JNU

### Intended Participants

- The faculty members, research scholars & PG scholars of the AICTE approved institutions and industry personnel

### Registration Details

**Last Date: 10<sup>th</sup> January 2025**  
**No Charge for Registration, Course and Certification**

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**Jawaharlal Nehru University,**  
**New Delhi - 110067**  
(NAAC A++ Accredited)

**School of Computer & Systems Sciences**

**Organizes**

**AICTE Training and Learning (ATAL)**

**Academy**

**Approved**

**Online Faculty Development Programme**

**on**

**ARTIFICIAL INTELLIGENCE  
FOR DISASTER RESILIENCE  
AND SUSTAINABLE  
DEVELOPMENT**

**20-01-2025 to 25-01-2025**



## Speakers



Prof. T.V. Vijaykumar  
SC&SS, JNU



Prof. S Sreekes,  
CSRD, JNU



Dr. G. Vijaykumar  
PTU



Mr. Jestus  
Data Analyst, HCL



Dr. Saznizam Sazmee  
Sinohi  
Department of Civil  
Engineering  
Universiti of Malaya



Dr. Ram Avtar  
Director, Global Land  
Program, Japan



Dr. Ravishankar  
CSRD, JNU



Shri Kamal Kishore,  
Head, NDMA



Prof. Anil Gupta  
Chief Manager, NIDM



Mr. Praveen Kumar  
Data Engineer, NIQ



Dr. Golda, APSCC



Prof. Haroon Sajjad  
Jamia Millia Islamia



Prof. Manoranjan  
Mishra, FM University

## Coordinators



Dr. POONGUZHALI N



Dr. VIKAS MITTAL

## Programme Contents

- Artificial Intelligence for Disaster Management
- Impact of climate variability on Sustainable Development
- Measuring, monitoring and managing sustainability in the coastal regions
- Seismic and Cyclone Hazard Mitigation Techniques
- Climate-Smart Disaster Management Plan
- Multisensor remote sensing techniques for sustainable management of natural resources
- Disaster Resilience
- Impact of Artificial Intelligence in Coastal Dynamics
- Application and challenges of Artificial intelligence in field of Disaster prevention, reduction and Relief
- Weather Forecasting using AI Techniques
- Analysis of Cyclones
- Impact of climate variability on Sustainable Development
- Digital Guardians: IoT Powering Biodiversity Protection and Next- Gen Sustainability Policies

## About the School

School of Computer & Systems Sciences (SC&SS) is one of the earliest centres of education in the field of Computer Science in the country. The School is among one of the few that started MCA and M.Tech programmes in Computer Science in the country. Recently, a new M.Tech programme in Data Science has been introduced in the School to cater to the requirements of the changing world of technology. The field of Computer Science was in the nascent stage, this school envisioned the role of Computer Science in allied areas thus naming the school as School of Computer and Systems Sciences with a focus on both Computer Science and Allied Sciences in teaching and research. The teaching methodology ensures that the spectrum of courses covers all the major domains while encouraging critical thinking in the students. The curriculum emphasizes on fundamental concepts further leading to advance topics. The faculty members involved in research in almost all the major areas of Computer Science and Microsystems aimed at encouraging out of box thinking and nurturing new ideas and approaches. The research publications and projects assigned vouch for the deep rooted research strength of the school. The teaching activity of the School is further strengthened by the research focus of the school in enriching the curriculum of the programme continuously to provide students the state of art knowledge relevant to both industries and academics.