



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(Deemed to be University)



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NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201-300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH, CST), MBA & MCA

A Report on Science Academies' Lecture Workshop on
"AI and Space Technologies for Climate and Resource Monitoring"
Organized by Department of Computer Science and Engineering (AI and ML)
Sponsored by Indian National Science Academy, New Delhi the National Academy
of Sciences, Prayagraj Indian Academy of Sciences, Bengaluru.
on September 7–8, 2026.



Report Submitted by: Dr. K. Suresh, Associate Professor, Department of CSE (AI and ML)

Event Coordinators: Dr. Sandhya.E, Assistant Professor, Department of CSE (AI and ML); Mrs. R. Usha, Assistant Professor, Department of CSE (AI and ML); Mr. BSH.Shayeez Ahamed, Assistant Professor, Department of CSE (AI and ML); Mr.G. Nithin, Assistant Professor, Department of CSE (AI and ML)

Resource Persons Details:

1. **Dr. D. Nagesh Kumar, FNA, FASc, FNASc, Professor, Dept. of Civil Engineering Associate Faculty, Centre for Earth Sciences (CEaS) Associate Faculty, Divecha Centre for Climate Change (DCCC), Indian Institute of Science (IISc), Bengaluru.**
2. **Dr. Kandula V Subrahmanyam, FRMets, Scientist-SF Associate Fellow of IMS, TAS, APAS Earth and Climate Sciences Area National Remote Sensing Centre (NRSC), Indian Space Research Organization (ISRO) Dept. of Space, Govt. of India, Balanagar.**
3. **Dr. Jyoti Narayan Bhate, Scientist/Engineer-SF Weather and Climate Research Group National Atmospheric Research Laboratory Gadanki, Andhra Pradesh Mr. Sridhar T. R., Healthcare Transformation Consultant, Wekan Enterprise Solutions, Chennai.**
4. **Mr. Subash P. Kuppusamy, Business Development Manager, R4 Aerospace and Defense Pvt. Ltd. Tamil Nadu, India**
- 5.

Participants: 100 students attended from Government Polytechnic Colleges, Kadiri and Palamaner and attended 50 Internal Students.

Venue: Seminar Hall – A, MITS

Mode of Conduct: Offline

Report Received on 05.10.2026.

Department of CSE (Artificial Intelligence and Machine Learning) organized a Science Academies' Lecture Workshop on **"AI and Space Technologies for Climate and Resource Monitoring"** on September 7–8, 2026.

Welcome Address:

The event commenced at 10:00 AM with a warm and engaging welcome address to all by Dr. E. Sandhya, Assistant Professor, Department of CSE (AI and ML), Madanapalle Institute of Technology & Science (MITS), Madanapalle. The event aimed to create awareness of **AI and Space Technologies for Climate and Resource Monitoring**, highlighting their applications in climate, agriculture, water resources, and environmental management. Participants interacted with experts and gained valuable insights into emerging technologies.

Keynote Address

Dr. S. Padma, Associate Professor & Head, Department of CSE (Artificial Intelligence and Machine Learning), MITS, Madanapalle, welcomed the faculty participants with an insightful address on the **"Science Academies' Lecture Workshop on AI and Space Technologies for Climate and Resource Monitoring,"** held on September 7–8, 2026.

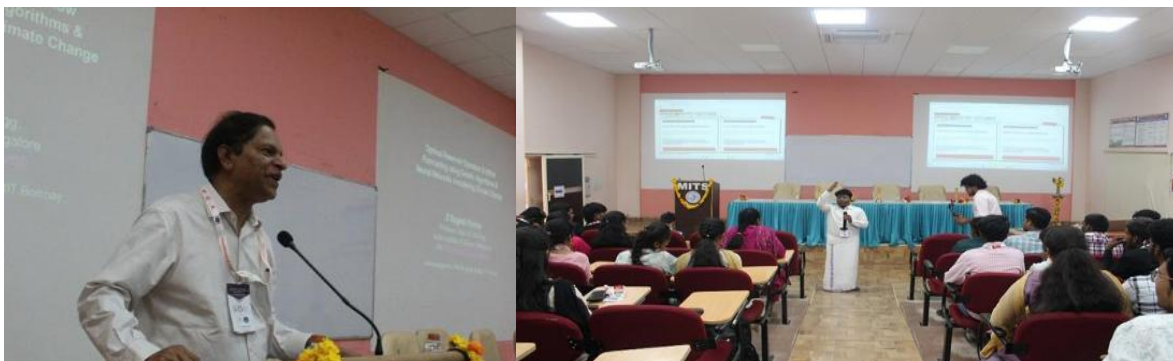


The workshop was sponsored by **INSA, New Delhi; NAS, Prayagraj; and IAS, Bengaluru**, and highlighted the importance of AI and space technologies in climate monitoring, resource management, and sustainable development.

Dr. P. Ramanathan, Principal, MITS, Madanapalle, addressed the gathering and highlighted the importance of **“AI and Space Technologies for Climate and Resource Monitoring.”**

He encouraged faculty to actively engage with the experts and explore the applications of **AI and space technologies** in research, climate monitoring, resource management, and sustainable development.

Day-1: Session:01: FN (10.15 AM to 11.30 AM) & Session:04:AN (03.30 PM to 04.45 PM):Dr. D. Nagesh Kumar delivered insightful sessions on **“Deep Learning and Geo-spatial Techniques in Agricultural Management”** and **“Optimal Reservoir Operation & Inflow Forecasting using Genetic Algorithms & Neural Networks Considering Climate Change.”** “The sessions highlighted the application of Deep Learning, Geo-Spatial Techniques, Genetic Algorithms, and Neural Networks in agricultural management, inflow forecasting, reservoir operation, and climate-resilient resource management.



Day-1: Session:02: FN:(11.45 AM to 1.00 PM) & Day-2: Session:03:AN:(01.30 PM to 02.45 PM):Mr. Subash P. Kuppusamy delivered insightful sessions on **“The Story of India’s Space Business”** and **“How to Build a Career in Space.”** “The sessions provided valuable insights into the growth of India’s space sector and emerging career opportunities in space technology.

Day-1: Session:03:AN:(02.00 AM to 3.15 PM) & Day-2: Session:01: FN:(09.45 AM to 11.00 AM):Dr. Kandula V. Subrahmanyam delivered sessions on **“AI and Space Technologies for Climate Monitoring – Part 1 & Part 2,”** highlighting the role of AI and space technologies in climate monitoring and environmental assessment.

Day-2: Session:02: FN:(11.15 AM to 12.30 PM) & Session:04:AN:(03.00 PM to 04.15 PM):
Dr. Jyoti Narayan Bhate delivered insightful sessions on **“AI and Earth Observation for Climate Monitoring”** and **“Integrated AI-Space Solutions for Climate Resilience and Sustainable Development.”** “The sessions highlighted the application of AI and Earth Observation technologies for climate monitoring, resilience, and sustainable development.



Participants:

Vote of Thanks

The event concluded with a Vote of Thanks delivered by **Mr. Uday Kumar**, Assistant Professor, Department of CSE (AI & ML), MITS. He expressed gratitude to the resource persons, Management, Principal, and Head of the Department for their valuable support in successfully conducting the “**AI and Space Technologies for Climate and Resource Monitoring**” Lecture Workshop.

Workshop Outcomes:

The two-day workshop enhanced faculty awareness of **AI and space technologies for climate and resource monitoring**, strengthening their teaching and research capabilities. It encouraged the exploration of innovative applications of these technologies for **climate monitoring, resource management, and sustainable development**.

UN-SDG Mapping:

1. SDG 13: Climate Action
2. SDG 6: Clean Water and Sanitation
3. SDG 2: Zero Hunger
4. SDG 9: Industry, Innovation and Infrastructure
5. SDG 4: Quality Education

Newspaper Clips:

