



Electronics & ICT Academy

(Under Ministry of Electronics and Information Technology (MeitY), Govt. of India)

Indian Institute of Technology Guwahati, Assam, Pin 781039

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One - Week Faculty Development Programme in offline mode on
“Integrating AI and IOT for Sustainable Resource Management: Teaching Strategies,
Tools and Applications”
(27th – 31st July, 2026)

In association with National Institute of Technology Nagaland, Chumoukedima

Schedule

Date	Time	Topic	Expert
Day-1 27-07-2026	09:00 am - 09:30 am	Inaugural session	
	09:30 am - 11:15 am	Introduction to AI and IoT for Sustainable Resource Management	Kaushlendra S. Sisodia
	11:15 am – 11:30 am	Tea Break	
	11:30 am - 01:00 pm	AI-Driven Smart Sensing and IoT Architectures	Dr. Nalin Behari Dev Choudhury
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm – 03:30 pm	Smart Cities and Sustainable Infrastructure using AI and IoT (Session 1)	Kaushlendra S. Sisodia
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm – 05:30 pm	Smart Cities and Sustainable Infrastructure using AI and IoT (Session 2)	Kaushlendra S. Sisodia
Day- 2 28-07-2026	09:30 am - 11:15 am	Hands-on Session on IoT Platforms and Sensor Integration	Nishant Kumar/ Kaushlendra S. Sisodia
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Smart Agriculture using AI and IoT Technologies	Kaushlendra S. Sisodia
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:30 pm	Cloud and Edge Computing for Sustainable IoT Applications	Dr. Emmanuel S Pilli
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm – 05:30 pm	Practical Session on Data Acquisition and Visualization	Nishant Kumar/ Kaushlendra S. Sisodia
Day-3 29-08-2026	09:30 am - 11:15 am	Case Studies on Industrial and Real-world AI-IoT Deployments	Kaushlendra S. Sisodia
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Predictive Analytics and Decision Support Systems	Dr. Sujata Dash
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:30 pm	Cybersecurity and Privacy in IoT-enabled Smart Systems	Dr. Samir Kumar Borgohain
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm – 05:30 pm	Machine Learning Techniques for Environmental and Resource Monitoring	Mr. Ashwani



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Date	Time	Topic	Expert
Day- 4 30-07-2026	09:30 am - 11:15 am	Hands-on Workshop on AI Model Development using Python	Mr. Ashwani
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Deep Learning Applications for Resource Optimization	Mr. Ashwani
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:30 pm	AI and IoT Tools for Academic Research and Innovation	Dr. Bipul Sarma
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm – 05:30 pm	Research Trends, Funding Opportunities and Publication Strategies	Dr. Bipul Sarma
Day- 5 31-07-2026	09:30 am - 11:15 am	AI Applications in Resource Management	Dr. Kuldeep Baishya
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Outcome-Based Curriculum Design for AI and IoT Education	Dr. Kuldeep Baishya
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:30 pm	Teaching Methodologies for AI and IOT Based Learning	Dr. Kuldeep Baishya
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm – 05:30 pm	Assessment + Feedback + Valedictory + Certification	
