

PROGRAMME REPORT ON

Dissemination of Innovative Technology (DIT)-TNSCST Sponsored Three-day Workshop on Generative AI Tools and Agricultural Advisory Platforms to Equip Farmers for Sustainable Agriculture

Resource Person

Mr.P.Vinoth

Organized by

CSE-PMIST



PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY

Periyar Nagar, Vallam, Thanjavur - 613403 Tamil Nadu, INDIA

Department of Computer Science and Engineering

Special Lecture/Training	Experts / Guest Speaker	Benefici aries
	Co-ordinator:	50
Date / Period: 09.07.2025 to 11.07.2025 Time: 10.30 a.m. – 4.30 p.m.		
Technical Session – DAY 1 Session 1 (11:30 AM – 01:00 PM) Introduction to AI Tools and Crop Planning: Generative AI and Agriculture Hands-On Demo: Crop Planning with Uzhavan App Participants explored the integration of AI for crop prediction, land preparation, and resource allocation, alongside a real-time demonstration of the Uzhavan mobile platform.	Mr. P. Vinoth	
Technical Session – DAY 1 Session 2 (02:00 PM – 02:45 PM) Introduction to Agricultural Advisory Platforms Tools: Plantix – Image-based Crop Disease Diagnosis & Pest Prediction This session empowered participants with AI-powered image recognition tools, enabling instant crop health assessments using just smartphones.	Ms. A.M. Akshaya, AI-ML Engineer & Founder, Akryo Innovations Mr.V. Kamalesakumar, Co-Founder, Akryo Innovations	
Technical Session – DAY 1 Session 3 (2:45 PM – 03:30 PM) Using AI for Weather Forecasting, Soil Health & Fertilizer Management Tool: Tamil Nadu Agricultural Weather Advisory App The session shed light on AI-driven weather models, soil analytics, and personalized fertilizer recommendations, enhancing precision farming.		
Technical Session – DAY 1 Session 4 (03:30 PM – 04:15 PM) AI for Agriculture – A Strategic Vision The session offered deep insights into the future landscape of AI in agriculture, covering agronomic data analytics, predictive modelling, and the ethical use of AI in rural	Dr. S. Appavu Alias Balamurugan, Professor, CSE	

settings.	
Technical Session – DAY 2	Dr. A. E. Narayanan,
Session 5 (10:00 A.M 11:30 A.M.)	Associate Professor,
Precision Agriculture with Gen AI	CSE, PMIST
Explained how AI, sensor data, and satellite imagery	
improve crop yield, soil management, and irrigation.	
Showcased AI's role in transforming traditional farming	
into efficient, tech-driven practices.	
Tell College DAVA	D. A. D. A. GEG
Technical Session DAY 2	Dr. A. P. Aruna, CEO,
Session 6 (11:30 AM – 1:00 PM)	Periyar TBI
Farmer Reflections – Group Sharing Session	
Farmers shared experiences and challenges in adopting AI	
tools for crop selection and market linkage. The session	
emphasized inclusive, locally tailored technology adoption.	M. W. M.
Technical Session – DAY 2	Ms. K. Meena,
Session 7 (02:00 PM – 03:00 PM)	Assistant Professor,
Hands-on Demo – e-Vaadagai	CSE, PMIST
Demonstrated the e-Vaadagai platform for renting	
agricultural machinery. Farmers learned to check	
availability, compare rental rates, and book tools online.	
Technical Session – DAY 2	Dr. M. Sivakumar,
Session 8 (03:15 PM – 04:15 PM)	CTO, Ariviya
Real-Time Case Studies & Success Stories	Technologies Pvt.
Presented case studies of farmers using AI platforms for	Ltd.
productivity and risk reduction. Highlighted success stories	
of small and marginal farmers achieving higher yields	
Technical Session – DAY 3	Ms. U. Elamathi,
Session 9 (10:00 AM – 10:45 AM)	Assistant Professor,
Connecting Farmers Directly with Buyers – Kisan	CSE, PMIST
Network	
Demonstrated Kisan Network, enabling farmers to connect	
with buyers directly and access real-time market trends.	
Farmers learned to use demand prediction and dynamic	
pricing tools to reduce middlemen dependency.	
Technical Session – DAY 3	Ms. G. Bharathi,
Session 10 (10:45 AM – 11:30 AM)	Assistant Professor,
Farm Management and Analytics Solutions – CropIn	CSE, PMIST
Presented CropIn features like weather forecasting,	
analytics, and supply chain management. Farmers saw how	
timely, data-driven decisions enhance productivity and	
mitigate weather-related risks.	
Technical Session – DAY 3	Dr. S. Senthamil
Session 11 (11:45 AM – 02:00 PM)	Kumar, Professor,
Visit to Farm Land – Field Simulation Activity	Civil Engineering,
Participants visited farmland at Gandarvakottai for practical	PMIST
exposure to AI-enabled farming methods. The field demo	
covered water management, resource utilization, and crop-	
based planning.	· I

Technical Session – DAY 3

Session 12 (03:30 PM – 04:15 PM)

Full Workflow Using AI Tools and AI Advice

Showcased a full AI-powered agricultural workflow with robotics in planting, weeding, spraying, and harvesting. The live demo highlighted how automation enhances precision and reduces manual effort.

Dr. R. Rakesh, Asst.
Professor (SS), ECE
& Director i/c
CETAT, PMIST





















