

First Information Brochure

The Institution of Engineers (India)

A Century of Service to the Nation

All India Workshop
on
**SMART IRRIGATION: LEVERAGING DRONE TECHNOLOGY FOR
PRECISION WATER MANAGEMENT**

Date: 19th & 20th May 2026

Organised by



The Institution of Engineers (India)

TAMIL NADU STATE CENTRE

Under the Aegis of

Agricultural Engineering Division, IE(I)

In association with



SRM VALLIAMMAI ENGINEERING COLLEGE

(AN AUTONOMOUS INSTITUTION)

APPROVED BY AICTE, AFFILIATED TO ANNA UNIVERSITY, ACCREDITED BY NBA,

‘A’ GRADE ACCREDITATION BY NAAC AND

ISO 21001:2018 CERTIFIED INSTITUTION, SRM NAGAR,

KATTANKULATHUR - 603203, CHENGALPATTU DISTRICT, TAMIL NADU.

Venue

Admin Block, 2nd Floor, Seminar Hall,
SRM Valliammai Engineering College,
Kattankulathur- 603 203

ABOUT THE INSTITUTION OF ENGINEERS (INDIA)

The Institution of Engineers (India) or IE(I) is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform for sharing professional interest. IE(I) has membership strength of above 2.64 lakhs. Established in 1920, with its headquarter Kolkata, IE(I) has served the engineering fraternity close to a century. During this period of time, IE(I) has been inextricably linked with the history of modern-day engineering.

In 1935, IE(I) was incorporated by Royal Charter and remains the only professional body in India which has been accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating through its 124 Centres located across the country and 6 overseas chapters. Besides, IE(I) has bilateral agreements with about 34 international bodies and membership of another 8 international bodies of the developed nations across the globe.

Being recognized as a Scientific and Research Organisation (SIRO) by the Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India, IE(I) promotes the cause of research and development by providing Grant-in-Aid support to undergraduate, post graduate students and PhD Research Scholars of Engineering Institutions and Universities.

IE(I) has been recognized as Scientific and Industrial Research Organization (SIRO) by the Ministry of Science & Technology, Government of India and provides Grant-in-Aid to UG/PG/PhD students of Engineering institutes and Universities.

IE(I) holds the International Professional Engineers (IntPE) Register for India under the global International Professional Engineers Alliance (IntPEA). The Institution also awards the Professional Engineers (PE) Certification.

IE(I) in collaboration with Springer Nature India Pvt. Ltd regularly publishes SCOPUS indexed, peer-reviewed international journal in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines.

ABOUT TAMIL NADU STATE CENTRE

The Tamil Nadu State Centre was established originally as the Southern India Centre at Chennai on 22nd December 1922. The Southern Region covered the erstwhile Madras, Andhra, Mysore, Hyderabad and Travancore – Cochin. As more centres were opened in the Southern Region, it was renamed as Madras Centre and later became the Tamilnadu State Centre. Tamilnadu

State Centre has a special significance in the formation of the Institution; for the IE(I) was registered in 1920 in the then Madras Province at Chennai. The registered office was subsequently moved to Calcutta the Head Quarters of IE(I). The Chief Guest for the Inaugural Function of the Annual General Session of IE(I) Madras Centre in 1959 was Thiru K Kamaraj, Chief Minister of Tamil Nadu.

The Tamil Nadu State Centre is the most active centre in the country and has been serving the society in general and the engineering community in particular with the said objectives and plays a significant role in dissemination and proliferation of knowledge amongst its members. With a modest membership to start with, the centre has brought into its fold a large section of fraternity with a membership strength of more than 30000 Corporate Members and more than 80000 Non – Corporate Members widening its horizon of technical activities. The centre has established sixteen Local Centres at Neyveli, Madurai, Coimbatore, Tiruchirappalli, Salem, Kalpakkam, Ranipet, Tuticorin, Hosur, Kanyakumari, Tirunelveli, Thiruvallur, Kanchipuram, Thanjavur, Erode and Kattankulathur to serve more professional groups. The major activities of the Division include: Annual National Conventions, Annual & Semi-Annual Paper Meetings, Publication of Journals, Workshops /Seminars and Symposia and Prizes and Awards.

ABOUT SRM VALLIAMMAI ENGINEERING COLLEGE

SRM Valliammai Engineering College (An Autonomous Institution) was found on 9th September, 1999 by Dr.T.R.Paarivendhar a well-known educationalist, in the name of his mother Tmt. R.Valliammai to impart world class education in Engineering and Technology particularly to develop useful manpower with entrepreneurship qualities for industry. It is a self-financed institution run by Valliammai Society. The College is approved by the AICTE, accredited by the NBA, 'A' Grade Accreditation by NAAC and affiliated to the Anna University. . The institute is offering 11 courses in the Under Graduate (UG) level and 8 courses in the Post Graduate (PG) level. The college has highly qualified, dynamic and dedicated renowned faculty both from academic and industrial background. Besides, the students bring laurels to the college by securing university. It is an ISO 21001:2018 certified institute. 9 departments are recognized as Research Centers by Anna University.

The Department of Agricultural Engineering commenced from the academic year 2019-20 with a vision to mould our students as strong professional Engineers to build our nation. It is established to develop professionals with the knowledge of modern technologies with sustainable farming practices and irrigation. The Department has well equipped laboratories with latest equipment to carry out research activities in the field of micro irrigation techniques. The department has highly qualified and

well experienced faculties specialized in areas like Farm Machinery, Water resources, Food processing, Plant breeding and Seed Technology. The department also provides an excellent ambience to the students to groom themselves for an innovative and challenging career in their future.

ABOUT THE THEME

National workshop aims to explore emerging technologies in smart irrigation and their role in precision water management in agriculture. Efficient utilization of water has become essential due to increasing scarcity and climate variability, encouraging the adoption of advanced irrigation methods. This workshop highlights the integration of drone technology with irrigation systems to enhance water use efficiency and crop productivity. Key concepts such as precision irrigation, soil moisture monitoring, remote sensing, and automated water management will be discussed. The use of drones enables real-time data collection, accurate crop assessment, and site-specific irrigation practices. It also helps in identifying crop stress and optimizing water distribution effectively.

The workshop is mainly designed for agriculture students to understand the practical applications of these modern technologies. It provides an opportunity to gain knowledge about innovative tools shaping the future of irrigation. Experts and academicians will share their insights on sustainable water management practices. This event will also encourage interaction and knowledge exchange among participants. It promises to be an enriching learning experience for students. Overall, the workshop focuses on promoting sustainable and technology-driven agriculture.

TARGET AUDIENCE

Workshop will provides a platform for sharing knowledge and ideas on smart irrigation and drone technology in agriculture. It is intended for academicians, researchers, agricultural engineers, industry professionals, farmers, policymakers, and students who are interested in advanced irrigation techniques and sustainable water management. Participants will gain insights into modern tools and technologies that enhance water use efficiency and agricultural productivity.

SUB THEMES

- Smart Irrigation Systems and Automation
- Drone Technology and Applications in Agriculture
- Precision Water Management Techniques
- Remote Sensing and GIS Applications in Irrigation
- Soil Moisture Monitoring and Crop Water Requirement Analysis
- IoT and Sensor-Based Irrigation Systems

REGISTRATION FEE :

MEMBER / DELEGATE REGISTRATION FEE		SPONSORS The Sponsors are entitled for free delegates, one full page advertisement, and a logo display in backdrop.	
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Including GST 18%		GST 18% Applicable extra	

Registration fee includes Tea & Snacks during Workshop and a soft copy of the Souvenir/Technical Proceeding

REGISTRATION & PAYMENTS

All payments are to be made through crossed Demand Draft / Cheque / NEFT/Online Net Banking Transfer In favour of “**The Institution of Engineers (India), Tamil Nadu State Centre**”. In case of NEFT / Online Net Banking transfer please mention the following

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The Institution of Engineers (India)

Tamil Nadu State Centre

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Chepauk, Chennai 600 005

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