

Project Awareness Program

on

“Smart methods for monitoring and mitigating effluents in water bodies using IoT and AI”

24th March 2025



Organized by

**School of Computer Science Engineering and Information Systems,
VIT, Vellore**

**In Collaboration with
Middlesex University, UK**



Funded by Scheme for Promotion of Academic and Research Collaboration (SPARC – UKIERI)

About VIT

VIT has made a mark in the field of higher education in India imparting quality education in a multicultural ambiance, intertwined with extensive application-oriented research. VIT was established in 1984 by the well-known educationist, and former parliamentarian, honourable Dr. G. Viswanathan, the Founder and Chancellor, a visionary who transformed VIT into a Centre of Excellence in higher technical education. It persistently seeks and adopts innovative methods to improve the quality of higher education in all fields of science and technology. VIT is the 9th best institution of India and the 212th best institution in the world in Engineering and Technology in 2024, holding 136th position in computer science and information systems as per the QS World University Rankings by Subject.

About SCORE

The School of Computer Science Engineering and Information Systems (SCORE) emphasizes on the fields of Information Technology, Software Engineering and Domain Specific Applications to facilitate the evolution of skills in students to help them to attain a higher degree of knowledge, global competency, and excellence, for the betterment of the society.

This school offers B.Tech, M.Tech, BSc, BCA, MCA and Ph.D., programmes.

The major areas of research include Image Processing, Machine Learning, Artificial Intelligence, IoT, Big Data, Software Engineering, Data Mining, Cloud Computing, Intelligence Systems, Information and Cyber Security.

The school's focus is on holistic learning to help the students to make significant contributions to the industry and to serve society at large. The school has dedicated faculty members in addition to many visiting professors, working professionals from R&D organizations and the industry.

The faculty members excel in teaching and learning processes and are very driven to conduct innovative research. They provide opportunities for the students to apply the acquired knowledge in solving real-world problems and gaining undergraduate research experience. The placement record of the school is always remarkable.

The school has strong linkages with leading IT companies and research organizations. It has industry-supported laboratories. Some of the professors of the school are among the Top 2% Scientists in the world according to the study conducted by the Stanford University, USA in 2023.

About the Project

The Project “Environmental Monitoring and Evaluation via Remote Advanced LoRa-Driven Detectors (EMERALD) for Heavy Metal Contamination” is being led by Middlesex University, UK and funded by the British Council as part of the SPARC-UKIERI (SPARC-UKIERI/2024-2025/P3228 - FP20240029) project. The objective of the project is to study the soil and water pollution in Vellore district, which is highly polluted being in the downstream of Palar River

About the awareness program

The awareness program intends to discuss the Impact of effluents in water bodies around Vellore involving Industry 5.0 & Enabling Technologies. The perspectives of academic experts and industry partners on the development of smart framework for monitoring and mitigation of water pollutants will be presented. The research perspectives on the awareness of pollutants and innovative mitigation schemes are also encouraged for bridging industry – academia gap.

Resource Persons

- Prof. David Windridge, Professor of Data Science and Machine Learning, Middlesex University, London
- Dr. Christophe Viavattene, Associate Professor of Sustainable Environment, Middlesex University, London
- Dr. Diane Purchase, Professor of Environmental Biotechnology, Middlesex University, London
- Dr. Giovanni Quattrone, Senior Lecturer in Computer Science, Middlesex University, London

- Dr Kamran Ali, Senior Lecturer in Computer Science, Middlesex University, London
- Dr. Santhosh Tirunagari, Senior Machine Learning Developer, European Bioinformatics Institute (EMBL-EBI), London
- Dr. Sankaran S, ex-chief scientist, NGRI-CSIR
- Dr. Siva Rama Krishnan S, Associate Professor, SCORE, VIT, Vellore, India
- Dr Sweta Bhattacharya, Associate Professor, SCORE, VIT, Vellore, India
- Dr. Senthil Kumar M, Professor, SCORE, VIT, Vellore, India
- Dr. Chiranjil Lal Chowdhary, Professor, SCORE, VIT, Vellore, India
- Mr. Vigneshwar Elangovan, Founder & CEO, VEMS Business Services Private Limited

Target Audiences

Students, Faculty, Research Scholars & Industry Professionals

Last date for registration: March 19th, 2025 (No Registration Fee)

Registration link: <https://tinyurl.com/4aefu7zj>

Venue: Sarojini Naidu gallery (SJT 6th floor)

Date & Time: 24th March & Time: 10:00AM – 5:00PM

Contact: Dr. Siva Rama Krishnan S - 9944454400

Advisory committee

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Dr. G. Viswanathan Chancellor

Patrons

Mr. Sankar Viswanathan Vice President

Dr. Sekar Viswanathan Vice President

Dr. G. V. Selvam Vice President

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Dr. Daphne Lopez

Professor and Dean in-charge

School of Computer Science Engineering and Information Systems (SCORE), VIT Vellore, India.

Co-Convenors

Dr. Jeyanthi N, Associate Dean, SCORE

Dr. Iyapparaja M, HoD, Smart Computing, SCORE

Dr. Neelu Khare, HOD, Software & Systems Engineering, SCORE

Dr. Prabhavathy P, HoD, Information Technology, SCORE

Dr. Vijayan E, HoD, Computer Applications, SCORE

Coordinators

Dr. Siva Rama Krishnan S, Dr. Sweta Bhattacharya

Dr. Senthil Kumar M and Dr. Chiranjil Lal Chowdhary