



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

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Criterion 7 - 7.3 Institutional Distinctiveness

Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words.

Response:

SCMS Water Institute (SWI) was established in 2010 as part of a Memorandum of Understanding between University of Applied Sciences Ravensburg-Weingarten, Germany and SCMS Group of Educational Institutions to address the water related environmental problems affecting the society. Since water is one of the most important resource limitations of the century, it was the commitment from the SCMS to establish a research and consultancy centre on water for its effective management and sustainable development. The institute initially known as Centre for Sustainable Water Technology and Management (CSWTM) was renamed in 2015. SWI functions with a mission to address water related issues through multidisciplinary efforts in order to achieve a sustainable and secure water future. SCMS Water Institute accomplishes its mission through research and development, technology incubation and application, education and training, demand driven consultancy and networking. SWI was funded by Baden Wuttemberg Stiftung Germany for establishing an Indo-German centre of competence for water and wastewater under the leadership of University of Applied Sciences Ravensburg- Weingarten. SWI hold MoU's with many German companies working on water and wastewater as well as with German Universities for Institutional strengthening, joint research and for faculty and student exchange. SCMS Water Institute accomplishes its mission through research and development, technology incubation and application, education and training, demand driven consultancy and networking. Since its inception, the Water Institute has been working closely with local self-governments in Kerala to address their water related challenges.

SWI acts as a Centre of Excellence in water and provides enormous opportunities for the students of SSET to get involved in service learning, where the technological talents of students get upgraded by addressing the real time problems faced by the society. This helps to fill the common lacuna which used to appear in engineering education. It is an excellent platform for technological students to understand the true field level challenges while implementing engineering principles and tackling them skillfully, as SWI provide opportunities for applying academics they study in the classroom to the field. Further, SWI facilitates the students to confront and resolve unforeseen difficulties while implementing projects which make them more suited for industry and thus in turn more successful in their career. Engagement of engineering students in solving society related problems helps them to be more responsible technological citizens of the nation. SWI focuses on the aspects related to urban water security & management through multidisciplinary efforts. SWI offered expertise on the areas like water quality monitoring & assessment; environmental modelling; water auditing; remote sensing & geographic information systems; policy development; eco restoration & watershed management; design of water & wastewater treatment units; rainwater harvesting; water distribution network analysis; storm water management. SWI has emerged as a technical support provider for local self-governments in Kerala. It provides continued support to Kochi Municipal Corporation, Thrissur Municipal Corporation, Guruvayur Municipality, Meloor

Grama Panchayath, Koratty Grama Panchayath, Kochi Metro Rail Ltd (KMRL), Cochin International Airport Ltd (CIAL) and various academic institutions in Kerala to address their environmental challenges.

LIST OF ACTIVITIES 2023 June to 2024 May

Sl. No	Title of Activity	Type of Activity	Organized by	Venue	No. of Days	Date	Link of report
1	Management of Groundwater Pumping for Irrigation with special reference to Calcified zones in Palakkad district	Consultancy	SCMS Water Institute, SSET & Ground water Department, Govt of Kerala	Experimental setup and study services at SSET	1 year 4 months	February 2023 to June 2024	https://drive.google.com/file/d/1jUHDZuwAuRKN203n7MHhFIRChvgt7R8u/view?usp=sharing
2	Design and implementation of nature based wastewater treatment system at government higher secondary school Elamakkara	Consultancy	SCMS Water Institute, SSET & CHED of Kochi Municipal Corporation	Government higher secondary school Elamakkara	1 year 5 months	October 2022 to March 2024	https://drive.google.com/file/d/1IVjFjOzjXCtvcKaP5nvqwKFKw2wanOWv/view?usp=sharing
3	Sainath Envirotech, Chennai	MoU signing	SCMS Water Institute, SSET & Sainath Envirotech	SCMS Muttom campus	Ongoing	October 2023 onwards	https://drive.google.com/file/d/1k1vsfVfQmX7trPZwgpfOyuSEzMLv-LCH/view?usp=sharing
4	Workshop on Sustainable Groundwater Resource Management	Workshop	Organized by Ground water Department, Govt. of Kerala In collaboration with	SCMS School of Engineering and Technology	1	1st December 2023	https://drive.google.com/file/d/1KKmZQ96v70Q0_jHCd1f4C-pMppKMhbyQ/view?usp=sharing

			Department of Civil Engineering, SCMS School of Engineering & Technology Karukutty				
5	Water Resource Mapping and Formulating Water Security Plan for Irinjalakuda Assembly Constituency	Service Learning	SCMS Water Institute in association with Kerala Water Authority	Irinjalakuda Assembly Constituency	2 years 8 months	September 2021 - May 2024	https://drive.google.com/file/d/1oD9cu0nQe7I2PqTspdLvmbKZmXOWFOVQ/view?usp=sharing



Amila
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