

ABOUT SRM IST

SRM Institute of Science and Technology (formerly known as SRM University) is one of the top ranking Universities and most premier engineering destinations in India, which was established in 1985 by the Founder Chancellor, Dr. T.R. Paarivendhar. Now it is functioning in four campuses located at Kattankulathur, Vadapalani, Tiruchirappalli and Ramapuram in Tamilnadu, Modi Nagar in Ghaziabad with over 52,000 students and 3100 faculty members. It offers a wide range of programs to students applying for undergraduate, post-graduate and doctoral programs in Engineering, Management, Medicine & Health Sciences, Agricultural Sciences, Law and Science & Humanities. The SRMIST hosted 98th Indian Science Congress Association in 2011. SRMIST has been engaged in nurturing minds through a rich heritage of academic excellence. Essentially a hub of bustling student activities, the green and beautiful campus has been a second home to thousands of students in their journey to pursue higher education. The Institution has moved up through international alliances and collaborative initiatives to achieve global excellence. The SRMIST also collaborates with foreign Universities like MIT, Carnegie Mellon University (CMU), Pittsburg University etc., offering a postgraduate academic program MSIT-ESE. Over 200 students were sponsored to 35 foreign Universities like Carnegie Mellon, UC Davis, Warwick and Western Australia. Now the Institute enjoys an unsurpassed reputation in academia and corporate circles being the preferred manpower source for vision to be recognized as a world-class learning institution. SRMIST has been recognized as Category I University by Ministry of Human Resources Development (MHRD), Government of India. SRMIST is accredited by NAAC with 'A++' Grade. SRM Institute of Science and Technology (formerly known as SRM

University) has been awarded a Four-Star rating by Quacquarelli Symonds ('QS'), a leading global higher education company. SRMIST ranked 24th in the NIRF engineering category. In the overall category, SRMIST has been ranked at **19th position** in the NIRF ranking 2022.

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering (ECE) was established in 1991. The department has collaboration with Central Electronics Engineering Research Institute (CEERI) Chennai, National Instruments, Samsung, CoreEL Technologies, Entuple Technologies (Synopsys) and Optithought. It has received research grants from DST under FIST, SERB under SRG, UGC under FRPS-SRG, DRDO, BRNS and ISRO. The B.Tech (ECE) program of Kattankulathur campus of SRMIST is accredited by NBA, Government of India and EAC of ABET, USA (<https://www.abet.org>). The Department offers Undergraduate, Postgraduate programs and Ph.D. in research domains related to Signal and Image Processing, Wireless Communications & Networks, RF & Antennas, VLSI& Embedded, Nano-Electronics, Photonics, Optoelectronics and Optical Communications.

ABOUT THE WORKSHOP

India has long been active in the field of photonics, dating back to famous scientists such as Sir C.V. Raman and Sir J.C. Bose. Today, India is home to numerous research groups and telecommunication companies that own a sizeable amount of the fibre-optic links installed around the globe.

Light-based technology, often referred to as photonics, describes a range of applications aimed at directly raising the quality of life worldwide by reducing child mortality, improving maternal health, and combating disease. The field of Green Photonics

studies ways to apply light technology to generate energy and yield environmentally sustainable outputs.

Light-based technology is a major economic driver with potential to revolutionize the 21st century as electronics did in the 20th century. The Proclamation of an International Year of Light and Light-based Technologies, 2015 by the United Nations will ensure the importance of light and its potential applications are appreciated by all. As light becomes the key cross-cutting discipline of science and engineering in the 21st century, it is essential that the brightest young minds continue to be attracted into careers in this field.

THEME OF THE WORKSHOP

The aim of this workshop is to provide a clear pathway to access the photonic technologies available to researchers in India, so that more of our big ideas can be transformed into solutions. This workshop will provide an introductory overview of

- Photonic technologies available to researchers through the Fluxim-SETFOS device modelling software, Fibre Optics Benchtop laboratory, Optilux, iFDTD, DSO-Matlab interface, to name a few.
- Hands on session guiding the attendees to design optical systems and devices, their signal acquisition and analysis.
- Lectures by academicians from reputed institutions and industries, and interactive discussion sessions

RESOURCE PERSONS

Invited lectures are delivered by experts in this area on the basic aspects and recent advancements in the area of Photonics and Photovoltaics. Speakers will include:

1. Dr. A. Gowri, IIITDM, Kancheepuram, on *Optical Biosensors*.

2. Mr. Dhruvajyoti Barah, Ph.D. Research scholar, AMOLED Research Center (ARC), Department of Electrical Engg, IITM, on *Structural Optimization for charge balance in high efficiency OLEDs*
3. Dr. Vivek Maik, Principle Scientist, IITM, on *Optical Imaging Design Fundamentals using MATLAB*
4. Dr. N. Venkateswaran, Professor, Department of ECE, SSN College of Engineering, on *Challenges in wireless communication and sensing*
5. Mr. Anil Kumar Sharma, Managing Director, Impulse Technology, Haryana, on *Modeling and Simulation of LEDs and photovoltaics devices using SETFOS*
6. Dr. Tejendra Dixit, Assistant Professor, IIITDM, Kancheepuram, on *Next Generation Optoelectronic Devices*

TARGET PARTICIPANTS

- Faculty members of Engg Colleges/ Universities
- Research scholars & PG students pursuing research / project work in this field
- Restricted to max. of 40 on first-come-first-serve

REGISTRATION DETAILS

Those wishing to attend this course should register online <https://tinyurl.com/woppd2022-RegForm>

- Registration Fee: **Rs. 750/- (for outside participants) / Rs. 500/- (for SRM candidates)** which is to be transacted to our account through **NEFT / IMPS / UPI**
- Bank: City Union Bank, Branch Code: 117, IFSC: CIUB0000117, Account Number: 11700 10008 84762, Account Name: ECE Association

Note: Registration fee includes Lunch and Refreshment, and Conference Kit. Accommodation can be arranged at a nominal cost.

PATRONS

Dr. T.R. Parivendhar, *Founder Chancellor*
 Mr. Ravi Pachamoothoo, *Pro Chancellor (Admin.)*
 Dr. P. Sathyanarayanan, *Pro Chancellor (Academics)*
 Dr. R. Shivakumar, *Vice-President*

ADVISORY COMMITTEE

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 Dr. C. Muthamizhchelvan, *Vice-Chancellor*
 Dr. T. V. Gopal, *Dean (CET)*

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ADDRESS FOR COMMUNICATION

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IMPORTANT DATES

Registration : 30-July-2022
 Date of Workshop : 01-02, August 2022



Workshop on Photonic and Photovoltaic Devices (WOPPD)

August 01-02, 2022

Organized by
 Department of
 Electronics and Communication Engineering



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 SRM Institute of Science & Technology

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