



National Institute for Interdisciplinary Science and Technology  
Thiruvananthapuram, Kerala  
Council of Scientific & Industrial Research (CSIR)



## “Printed Electronics based Advanced Device Fabrication”

### CONTACT

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### COURSE FEE

Students : Rs. 1,500/-  
Sponsored\* :Rs. 3,000/-

### ACCOUNT DETAILS

The Director, CSIR-NIIST,  
(Regional Research Laboratory)  
Account No: 67047723825  
IFS Code: SBIN0070030  
Bank: State Bank of India,  
Pappanamcode  
Industrial Estate Branch

### APPLY ONLINE

<http://sdp.niist.res.in>

### **CSIR Integrated Skill Initiative**

The National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram, is a constituent Laboratory of the Council of Scientific and Industrial Research (CSIR). CSIR-NIIST is engaged in R & D programs and has established state of the art facilities for research in the areas of Environmental Technology, Chemical Sciences and technology, Agro-processing and technology, Materials Science and Technology, and Microbial processes & technology. The offered two-day training program is on printed electronics which is a bleeding edge manufacturing protocol where standard printing techniques like screen printing, flexography, and inkjet printing are employed for realizing flexible electronic circuits.

### **Topics Covered**

- Introduction to Printed Electronics, State-of-the-art Printing Technologies and Methods, Applications and Future perspective
- Materials for Printed Electronics, Customized substrates and Inks, Advanced Ceramic Technologies, Printed thick film devices, Piezoceramics, Micro-heaters, Customized device packaging, MEMS packaging
- Flexible energy harvesters, Piezoelectric Nanogenerators (PENG), Triboelectric Nanogenerators (TENG), Flexible sensors for physical parameters and bio-signal monitoring, Wearable antennas and heaters

### **Eligibility**

Graduate in Science/Engineering

**Schedule Date** : September 14<sup>th</sup> 2022

**Duration** : Two days

**Mode of Training** : Offline

### **Resource Persons**

Dr. K. P. Surendran, Principal Scientist  
Dr. Achu Chandran, Scientist

\* Candidates sponsored by Industries/ Research organization / colleges

