



Module PMRF-ISSS016

Printing Technology

Name of the PMRF student

Arijit Jana

Required background of the students taught

Undergraduate/Postgraduate students interested in fabrication of electronic & energy storage devices

Faculty coordinator

Rachith S N

Online session coordinator

Bhavana H T



Details of the content of the module

Various printing techniques such as screen, flexography, gravure, offset lithography, inkjet and 3D printing etc., used to fabricate electronic devices on various substrates will be taught and “virtual demonstration experience” with commercial inkjet printer for micro-supercapacitor device fabrication will be shown. Finally, the numerous application areas of printed electronics like field-effect transistors, sensors, OLEDs, organic photovoltaics (OPVs) along with emerging “the internet of things (IoT)” applications of printed micro-supercapacitors will be discussed which helps them to understand/design of various multifunctional supercapacitors.

Topics Covered

1. Introduction of printed electronics
2. Printing processes and optimization
3. Applications of printed electronics
4. Fundamentals of supercapacitors
5. Printed micro-supercapacitors
6. Applications of printed micro-supercapacitors

Schedule of the module

Saturdays and/or Sundays : 6.00 to 7.00 pm

Start date: 6th June 2021

End date: 28th August 2021

Meeting link :

<https://meet.google.com/gqd-rbch-pqh>

Contact email ID: issf.forum@gmail.com

Registration link:

<https://docs.google.com/forms/d/1fGtZgVXANb7B4DVZnOC-qEyJvz8pd5nJkHDU2AkNPkA/edit?usp=sharing>