

Online Short Term Course on "Graphene and CNT based Polymer Composites: Preparation, Characterization and Applications"



07- 10 September, 2020
Centre for Continuing Education (CCE)
Indian Institute of Science, Bangalore, India -

Course Content:

This course aims at providing a comprehensive overview of polymer nanocomposites, advanced concepts in nanocomposites, the importance of interface and surface treatment of the reinforcing materials on the property development, various processing techniques, and applications. Two representative classes of fillers like 1D (CNTs), 2D (graphene and its derivatives) will be discussed concerning their structure, characterization, surface modification, functionalization, and their composites with polymeric matrices. Various processing techniques like solution mixing, melt processing etc will be highlighted. The unique properties of nanocomposites concerning rheological, mechanical, and physical properties and applications will be discussed.

Minimum Qualification Required:

BE/B. Tech, MSc

Prerequisites:

No

Course Coordinators:

- Dr. Suryasarthi Bose, Associate
Professor, Materials Engineering
Dept., Indian Institute of Science,
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Duration: 4 days – (07 – 10 September, 2020)

Registration: This course can be attended only by registration. The number of participants is limited to 30. The registration will be accepted on a first-come first-served basis.

Apply online at: <http://cce.iisc.ac.in/ssp-stc.html>

The registration fee is INR 15,000 +18% GST

Last Date to Apply: 03 September, 2020

Note: Classes will be conducted via Microsoft Teams/Google Meet