

SHORT TERM COURSE ON
RECENT TRENDS IN RUBBER
TECHNOLOGY 2024
[RT]²₂₀₂₄



Rubber Technology Centre
Indian Institute of Technology
Kharagpur-721302
West Bengal, India

Coordinators:
Dr. Soumyadip Choudhury
Prof. Nikhil Kumar Singha

**26th Feb to 1st Mar
2024**



REGISTRATION PROCESS



- Go to “Events” menu on the institute home page or scan the QR code given or go to: <https://erp.iitkgp.ac.in/CEP/courses.htm>
- Click on “how to apply” at the top of the page.
- Follow the instructions given there for signing up and editing your profile.
- Scroll down to the “Short Term course SELF SPONSORED on RECENT TRENDS IN RUBBER TECHNOLOGY 2024”.
- Click on the “Apply Now” Button and follow the instruction page available at the How to Apply link.

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TOPICS LIKELY TO BE COVERED

- Basic Rubber Science & Technology
- New Polymers & Polymer Nanocomposites
- Tire Technology
- Thermoplastic Elastomers (TPEs/TPVs)
- e- Mobility Concepts : Relation to Rubber Technology
- Rubber Compounding & Characterization
- Physical Testing
- Electron microscopy and X-ray Photoelectron spectroscopy
- Application of Rubber in Energy Materials
- Evolution of carbonaceous fillers
- Latex technology
- 3D printing in Rubbers
- Design and Analysis by FEM/Simulation
- Surface Coatings and Adhesion
- Sustainability and Circular Economy

LECTURES

Lectures will be delivered by the academicians and experts from R&D organizations and industries.

ELIGIBILITY

Candidates must be graduates in Science /Engineering/Technology with working experience in rubber and allied industries.

OBJECTIVE

Rubber as a material acquires a very important position in the materials community as the uses of rubbers are found in defense, aerospace, electrical, mining and automotive sectors and beyond. The knowledge of various rubber manufacturing, modifications, sophisticated characterization techniques, properties and technologies to understand how to turn any rubber to useful product at lower cost to performance ratio. The short term course is aimed to cover all the abovesaid aspects together with recent developments of additives, finding solutions of rubbers and additives to EV sectors, energy storage and harvesting prospects. The course will include theory classes followed by demonstration in laboratory.

REGISTRATION

Registration fee of the course for each participant is Rs. 15000/-. This fee includes registration kit and course materials including bound volume of all lectures during the course. Candidates will be selected on "First come, First served basis".

TRAVEL EXPENSES

All travel expenses will have to be borne by the participants.

BOARDING AND LODGING

Boarding and lodging will be arranged in the guest house inside campus on chargeable basis.

The lecture notes for all sessions will be supplied to the participants in the form of a book, which will also be available after the course is over on payment basis. From our previous experience, this kind of books found to be useful to the industry people for a quick glance of rubber technology. We are inviting advertisement for the book. A full page advertisement charge will be Rs. 15000/- (Rupees Fifteen thousands only). A complimentary copy of the book will be provided to the advertisers.



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