

SHORT TERM COURSE ON  
**RECENT ADVANCES IN  
RUBBER TECHNOLOGY**  
**RART 2019**

**FEBRUARY 12-16  
2019**

CO-ORDINATORS:  
**DR. NARAYAN CH. DAS  
PROF. KINSUK NASKAR**



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

Please send your entries to:

**Dr. Narayan Ch. Das / Prof. Kinsuk Naskar**  
Rubber Technology Centre, IIT Kharagpur, Kharagpur – 721302,  
Dist. Paschim Midnapore, West Bengal, India,  
Ph. No. **03222 -283190, 281748;**  
e-mail: [ncdas@rtc.iitkgp.ac.in](mailto:ncdas@rtc.iitkgp.ac.in) or [naskark73@gmail.com](mailto:naskark73@gmail.com)

**ABOUT KHARAGPUR**

Kharagpur is about 116 kms. away from Kolkata in the south west direction and is joined by train as well as by bus services from Kolkata. The weather is pleasant during February.

**REGISTRATION AND  
FEE PAYMENT  
PROCESS :**

The course fee can be paid through IIT Kharagpur by following the steps given below:

Course coordinator:  
**Dr. Narayan Ch. Das,**  
Mobile: **09547086298,**  
[ncdas@rtc.iitkgp.ac.in](mailto:ncdas@rtc.iitkgp.ac.in)

Candidate should apply "online" by clicking "**Apply for CEP Events**". Under EVENTS section in the Institute website: [www.iitkgp.ac.in](http://www.iitkgp.ac.in). click on how to apply at the top 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 ADVANCES IN RUBBER TECHNOLOGY. Click on the "**Apply Now**" Button and follow the instruction page available at the How to Apply link.

Or Contact course Coordinator if you need any information help for registration.

**Dr. N. C. Das**  
E-mail: [ncdas@rtc.iitkgp.ac.in](mailto:ncdas@rtc.iitkgp.ac.in)  
Mobile No. 09547086298.

**Prof. K. Naskar**  
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Name of the company:

Address of the company:

Name & position of the person:

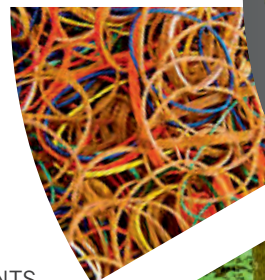
Authorizing booking of advertisement:

Phone No./Fax No./Mobile No.

Cheque/Bank Draft No. & other details:

Signature

( )



## OBJECTIVE:

The last decade has witnessed an explosive development and growth of various technologies in the world. As the modern civilization depends heavily on the use of rubber in defense, aerospace, automotive and electronic industries, there is a great demand on the right elastomeric materials and the best technology. The need for improved elastomer performance such as high temperature stability and improved mechanical strength is well balanced with the need to reduce processing costs. It has become absolute necessary to understand the behavior of these new materials as well as new techniques for their evaluation. The short term course is aimed at to deal with modern methods of processing and characterization including recent developments in methods, equipments and technologies used in rubber industries. The course will include theory classes followed by practical classes, laboratory.

## LECTURES:

Lectures will be delivered by the faculty members of IIT Kharagpur and experts from R & D organizations and industries.

## DURATION OF THE COURSE:

Duration of the course will be from February 12-16, 2019, which will cover both theory as well as practical classes.

## REGISTRATION:

Registration fee of the course for each participant is Rs. 12000/-. This fee includes registration kit and course materials including bound volume of all lectures during the course. The registration form duly filled in and signed by the sponsoring authority should reach the Coordinator by 1st January, 2019. 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 located in the campus on chargeable basis separately.

## ELIGIBILITY:

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

Topics likely to be covered in the course are:

- Basic Rubber Science and Technology
- New Polymers, Blends and Nanocomposites
- Green Tyre Technology
- Thermoplastic Elastomers (TPEs and TPVs)
- Rubber Compounding/Processing & Characterizations
- Compound Analysis by Reverse Engineering
- Trends in Rubber Products Manufacturing & Design
- Application of Rubber in Defense

## REGISTRATION FORM

### SHORT TERM COURSE ON RECENT ADVANCES IN RUBBER TECHNOLOGY

Procedure for applying through IIT Kharagpur online course registration portal

Use the link : <https://erp.iitkgp.ac.in/CEP/courses.htm>

Steps to be followed :

1. Sign-Up
2. Verify your email-id (link will be sent to your e-mail)
3. Login
4. Edit Profile (Fill up all the mandatory fields, upload photo and signature)
5. Click on '**APPLY NOW**' button.
6. Upload your .pdf format id-card (if necessary).

\*\*\*An e-mail will be communicated from Principal Coordinator/Convenor/Organiser, IIT Kharagpur to the shortlisted applicants starting the payment procedure.

\*\*\* This is a onetime sign up process for applying through IIT Kharagpur online course registration portal. You can apply for any other programme using the same Login-id and Password.

For any help please call @ the following help-line number 0-3222-269626

Or Email us: [cep\\_erp@iitkgp.ac.in](mailto:cep_erp@iitkgp.ac.in)

Or [ncdas@rtc.iitkgp.ac.in](mailto:ncdas@rtc.iitkgp.ac.in)

Or [naskark73@gmail.com](mailto:naskark73@gmail.com)

# SHORT TERM COURSE

## ON RECENT ADVANCES IN RUBBER TECHNOLOGY

February 12-16, 2019

We are planning to bind the lecture notes in the form of a book. This will be distributed amongst the participants and also sold after the course. In the past, we received good response from the companies who use this book for education and reference purpose. We are inviting advertisement for the book. The full page advertisement charge will be Rs. 10000/- (Rupees ten thousands only). The advertisement will be put in the following format:

With best compliments from

(Name of company with address)

A copy of the book will be sent to the advertiser free of charge. If you are interested in advertising in the book, please intimate us to the following address along with the form given overleaf before 1st January, 2019.

Dr. Narayan Chandra Das /  
Prof. Kinsuk Naskar

Rubber Technology Centre  
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Dist : Midnapore (West)  
W.B. INDIA