

## REGISTRATION FORM

TEQIP-III sponsored five day short term course on  
**RESEARCH METHODOLOGY IN ENGINEERING**  
(A practical insight for researchers)

(RME-2019)

22-26 August 2019

Department of Mechanical Engineering  
National Institute of Technology Rourkela

Name: .....  
Designation: .....  
Department: .....  
Organization: .....  
Highest qualification: .....  
Specialization: .....  
Mailing Address: .....

Mobile: .....  
Email: .....  
Presently enrolled in M.Tech/Ph.D.: Yes / No  
Accommodation Required (Yes/No): .....  
Payment Details: Amount: Rs ...../-  
Demand Draft No.: ..... Date: ...../...../2019  
Bank: .....  
Demand Draft should be drawn in favour of  
"DIRECTOR, NIT ROURKELA" payable at Rourkela.

Signature of Applicant Date: ...../...../2019

### Note:

- ☐ Incomplete registration form/without demand draft shall be rejected.
- ☐ Registration fee is non-refundable.
- ☐ No TA/DA will be provided for attending the course.
- ☐ Only limited number of participants will be selected on first-cum-first serve basis.

## ORGANIZING COMMITTEE

Principal Co-ordinator: Dr. Manoj Kumar Moharana  
co-coordinator: Dr. Gajendra K Agrawal, GEC Bilaspur

## IMPORTANT DATES

Last date for receipt of application: 10 August 2019  
Notification about selection: Within 02 days of receipt of complete application.

**Only limited number of participants will be selected on first-cum-first serve basis.** Selected candidates will be informed by email immediately after receipt of the application form. Complete information for communication must be necessarily provided in the registration form. The demand draft will be returned to the applicant if not selected for this course.

## ACCOMMODATION

Accommodation will be provided to out station participants at NIT guest house on prior request on sharing basis (twin sharing).

## CONTACT

For registration form or any clarification please contact

**Dr. Manoj Kumar Moharana**

Tel: +91-661-246-2533 (O),

Mob: +91-7008111684, +91-8895593400

E-mail: mkmoharana@gmail.com

moharanam@nitrrkl.ac.in

<https://www.youtube.com/user/mkmoharana>

<https://www.facebook.com/DrManojMoharana>

For further information or updates related to this short term course please visit

<https://www.facebook.com/rme.mkmoharana>

Registration form can be downloaded at

<https://sites.google.com/site/mkmoharana/>

<http://www.nitrrkl.ac.in/Academics/Events/CEP.aspx>

**Send your filled in application and demand draft to**

**Dr. Manoj Kumar Moharana**

**Assistant Professor Grade-I**

**Department of Mechanical Engineering  
National Institute of Technology Rourkela  
Rourkela 769008 (Odisha)**

TEQIP-III SPONSORED  
FIVE DAY  
SHORT TERM COURSE  
ON

**RESEARCH METHODOLOGY  
IN ENGINEERING: A PRACTICAL  
INSIGHT FOR RESEARCHERS**

**RME-2019**

**22-26 AUGUST 2019**



Principal Coordinator  
Dr. Manoj Kumar Moharana  
Co-coordinator:

Dr. Gajendra K. Agrawal (GEC Bilaspur)

**Department of Mechanical Engineering  
National Institute of Technology Rourkela  
Rourkela 769008 (Odisha)**

### ABOUT NIT ROURKELA:

National Institute of Technology Rourkela is an institute of national importance created under the act of parliament. NIT Rourkela provides quality education in a diverse and multi-cultural environment. The mission of the institute is to become an internationally acclaimed institution of higher learning that will serve as a source of knowledge and expertise for the society and be a preferred destination for both UG and PG studies. The vision of the institute is to advance and spread knowledge in the area of science and technology leading to creation of wealth and welfare of humanity.

Department of Mechanical Engineering is the largest among all of its departments at NIT Rourkela with about 180 students doing their master's degree and another 60 students are pursuing their doctoral program in different fields of cutting edge technology.

## INTRODUCTION TO THE COURSE:

The main objectives of postgraduate education, e.g. M.Tech and Ph.D are to prepare intellectual leaders who will do the groundwork to create new paradigms and products for tomorrow. Postgraduate education needs to provide deeper experience in the values, norms, and practices of the chosen profession while also developing the skills, tools, and habits of inquiry within a discipline. Hence, when it comes to postgraduate education, the quality concerns are much more important than quantity concerns.

According to a 2010 Nasscom report, India's fast-growing engineering R&D services industry has reached \$10 billion and employing about 85,000 engineers and it is still growing. In this background there is a greater demand for PhD qualified personnel who have acquired research experience at least in academic environment.

**COURSE CONTENTS:**

- Introduction to research
- Importance of research
- Finding research problem; effective literature review
- Technical writing
- Design of experiments
- Data processing
- Preparing enduring images and diagrams
- How to prepare a journal manuscript
- Selection of journal for possible publication
- How to increase chances of manuscript acceptance
- Copyright Issues in research
- SCI Index, impact factor, half-life of journal
- Salesmanship in research
- Plagiarism
- Ethics in research
- Writing research proposal for research funding

*The course content includes discussion/suggestion on manuscript written by participants. Participants are encouraged to bring their manuscripts under preparation/ planning for submission to journal/conference.*

## WHO SHOULD ATTEND?

The main objective of this program is to impart practical knowledge on research methodology which is very essential for successful completion of PhD. Research methodology is vital for faculty members especially those pursuing or planning to pursue their master and/or doctorate degree. This program is intended for faculty members of engineering colleges especially those pursuing or planning to pursue their master and/or doctorate degree in near future. This program will also be useful for faculty members planning for submitting research proposal to different funding agencies.

**Target branch of Engineering:**

Any branch of engineering

**Prerequisite for attending this course:**

Basic computer programming knowledge will be an added advantage though not mandatory for this course.

## COURSE FEE:

a. Faculty: INR 3000/-

b. Delegate from industry: INR 4000/-

The course fee includes course material, local hospital-ity at NIT campus (food and sharing accommodation) and refreshment during the program days. Twin sharing accommodation at NIT guest house will be provided to out station participants only on prior request.

No TA/DA will be provided to the participants for attending this short term course.

***Participation certificate will be provided to the successful participants who attend the program in full.***

**PAYMENT:**

Registration fee has to be paid through Demand Draft in favour of "DIRECTOR, NIT ROURKELA" payable at **Rourkela**. Demand draft along with completely filled in registration form should reach the following address on or before 15 August 2019 (by speed post/registered post).

**Dr. Manoj Kumar Moharana**

Assistant Professor Grade-I

Department of Mechanical Engineering

National Institute of Technology Rourkela

**Rourkela-769008 (Odisha)**

