

## ABOUT THE INSTITUTE

National Institute of Technology Agartala, erstwhile Tripura Engineering College (established in 1965), the 20th member of the NIT fraternity, was established in 2006 to impart quality technical education into various levels of higher learning. It is a centrally funded technical Institution with status of an Institute of National Importance and Deemed to be University. At present the institute has Thirteen Departments covering all the major engineering, science and humanities disciplines offering B. Tech, BS-MS, M. Tech, MCA, M.Sc., MBA and PhD degrees along with Post-Doctoral Fellowship programs in various fields of specialization. The mission of the Institute is "To help to improve the economic development of the country particularly the North-East states and also the public systems, through pursuit of excellence in technical education, research, consultancy and training".

## ABOUT MECHANICAL ENGINEERING DEPARTMENT

The Department of Mechanical Engineering at NIT Agartala is one of the largest and oldest departments of the institute that gratifies to its students with top class teaching-learning facility and state-of-the-art laboratories. The department is continuously striving to achieve excellence in education, academic and industry oriented research as well as consultancy work with service to the society in particular and the nation in greater extent.

## ABOUT THE SHORT TERM TRAINING PROGRAM

Optimization in engineering design is the final and most important stage in the design process. The primary objective of this workshop is to make the participants (faculty/ students/Industry personals) aware of the classical and evolutionary optimization techniques and demonstrate their use on different application problems. Deliberation in different sessions during the program will also cover ongoing research activities by different experts. At the same time the workshop will give hands on experience to code the optimization method during the lab sessions.

## ONE WEEK SHORT TERM TRAINING PROGRAM (HYBRID MODE)

ON

## Optimum Design: Principles and Applications



ORGANIZED BY  
**NITA LABORATORY OF OPTIMIZATION (NITALO)**  
DEPARTMENT OF  
MECHANICAL ENGINEERING  
NIT AGARTALA

FROM 1<sup>ST</sup> MAY 2023 TO 5<sup>TH</sup> MAY 2023

## PATRON

**Prof. H.K. Sharma**  
Director, NIT Agartala

## REGISTRATION FEE

*(Registration fee is non refundable)*

Students/ Scholars: **500 Rupees**  
Faculty Members: **1000 Rupees**  
Industry Personal: **2000 Rupees**

The Copy/ Screenshot of Transaction Details/ Payment details along with **this filled and signed form (Reverse Page)** need to be submitted in the following **google form by 15<sup>th</sup> April 2023**.

<https://forms.gle/DscTpNGmQ4kDwphA8>

## TARGET PARTICIPANTS

Faculty members, Research Scholars, Students from different Technical Institutes under MHRD, AICTE/ UGC, and Industry personals/ Scientist who are willing to learn and implement the optimization techniques in their respective field of interest can attend the Course.

## RESOURCE PERSONS

1. **Prof. Kalyanmoy Deb**  
Michigan State University, East Lansing, USA
2. **Prof. Prashant Kumar**, Professor Emeritus, CoEP.  
Tech. Univ. Pune (Former Professor, IIT Kanpur)
3. **Prof. Ramkumar J.**, IIT Kanpur
4. **Prof. Manish Mishra**, I.I.T. Roorkee
5. **Prof. Karali Patra**, I.I.T. Patna
6. **Dr. Deepak Sharma**, I.I.T., Guwahati
7. **Dr. N. K. Chougule**, CoEP. Tech. Univ. Pune
8. **Prof. Vipin Kumar Tripathi**, NIT Agartala
9. **Dr. Arindam Majumder**, NIT Agartala

## IMPORTANT DATES

- Last date of Submitting Filled Registration Form with Payment details: **15<sup>th</sup> April 2023**
- Confirmation to Participants: **20<sup>th</sup> April 2023**

## BRIEF OUTLINE OF COURSE CONTENTS

- Introduction to Optimization Techniques
- Classical Optimization
- Evolutionary Optimization
- Optimization of Manufacturing Systems
- Optimization of Thermal Systems
- Optimization of Machine Elements / Tools
- Optimization of Material Systems

## ACCOUNT OF PAYMENT DETAILS

Name of Account Holder:

**Col (Dr.) AshishBadola, Registrar**

Account Number: **30369892838**

IFSC Code: **SBIN0011491**

MICR No: **799002525**

## REGISTRATION PROCESS

Complete the payment of registration fee and keep the payment slip / payment details.



Fill the Registration Form and scan it aftersigning.



Fill the Google Form and Upload the Scanned Registration Form and Payment Slip within due date.

<https://forms.gle/DscTpNGmO4kDwphA8>

## REGISTRATION FORM

Name of Participant in BLOCK LETTER:

Qualification:

Designation:

Organization / Institute / Industry:

Email ID:

Mobile Number:

Category (Please Tick):

Student	<input type="checkbox"/>	Faculty	<input type="checkbox"/>
Industry	<input type="checkbox"/>	R & D	<input type="checkbox"/>
Govt. Organization	<input type="checkbox"/>	Private Organization	<input type="checkbox"/>

You will attend the Program in (Put tick mark):

Physical Mode  Online Mode

Do you want Accommodation & Fooding in NITA

Guest House (Self Financed)? (Yes / No)

Accommodation: Twin sharing, Rs. 300 + GST per

person/Day Food: Approximately Rs. 400 / Person (B-L-D)/Day

## PAYMENT DETAILS

Transaction ID/ Reference ID:

Date of Payment:

Date of Payment

Fee payment Receipt to be attached in Google

Form <https://forms.gle/DscTpNGmO4kDwphA8>

Signature of applicant (with date)

Signature of Head of the Department/  
Supervisor/Head of the Institution of the Applicant

## PROGRAM COORDINATORS

**Prof. Vipin Kumar Tripathi**

Professor & Head

M.E. Department, NIT Agartala

(Coordinator)

**Dr. Arindam Majumder**

Assistant Professor

M.E. Department, NIT Agartala

(Coordinator)

**Dr. Ankuran Saha**

Assistant Professor

M.E. Department, NIT Agartala

(Convener)

## ORGANIZING COMMITTEE

- Dr. Pritam Das, Asso.Prof, M.E Dept
- Dr. Manish Bhargava, Asso.Prof, M.E Dept
- Dr. Barnik Saha Roy, Asst. Prof, M.E Dept
- Dr. Madhujit Deb, Asst. Prof, M.E Dept
- Dr. Paramvir Singh, Asst. Prof, M.E Dept

## ADDRESS OF CORRESPONDENCE

To

**Prof. Vipin Kumar Tripathi**

Coordinator

Department of Mechanical Engineering

NIT Agartala, West Tripura, PIN- 799046

Email: [fdp.mech.nita@gmail.com](mailto:fdp.mech.nita@gmail.com)

Contact: +919604645208 / +919612207132