



A One-Week Workshop

on

Recent trends on Optimization Techniques in Science and Engineering (ROTS-2017) (Under TEQIP – II)

15-20 March 2017

Organized by: Department of Mathematics, NIT Silchar, Assam

Last date of receipt
of Application:
10.03.2017 (5PM)
Max seats: 50

Please don't apply if
you are not
prepared to attend
most of it. Better to
allow somebody
else, who may be
benefitted.

EXPERTS



Prof. J. C. Bansal
SAU, Delhi



Prof. K. Chaudhuri
Jadavpur University



Prof. D. P. Acharjya
VIT University



Prof. S. K. Udgata
University of Hyd.



Prof. A. K. Ojha
IIT Bhubaneswar



Mr. K. Nag
ISI Kolkata

Prof. A. Kishor
Amity Uni., Kol



Prof. S. K. Pattanayak
NIT Silchar

Prof. K. N. Das
NIT Silchar



Highlights

- Hands on training
 - MATLAB toolbox and jMetal for optimization.
 - Tutorial on some Statistical tests.
 - Applications of jMetal in Optimization.
- Supply of study materials on different algorithms of evolutionary optimization techniques.
- Excellent expert lecture series.
- Maximum intake: 50
- Registration includes registration kit, Breakfast and Lunch.
- Dinner for outstation participants only
- Selected participants to bring their own laptops for training during workshop.

Registration (by 10.03.2017, 5pm)

- M. Sc., M. Tech., Ph. D. students and Faculty members and persons from industry can apply.
- **For internal participants:** No registration fee. Duly filled registration form, forwarded by HOD should be submitted in the office of Department of Mathematics, NIT Silchar.
- **For outstation participants:** Registration fee is Rs. 500 (DD drawn in favour of Director, NIT Silchar; payable at SBI). Duly filled registration form, forwarded by HOD should be mailed to kedar.iitr@gmail.com along with scanned DD by the deadline. However, originals should be submitted before commencement of the workshop.

REGISTRATION DETAILS

External Participants: Rs. 500/-

Payment via DD in favour of **Director NIT Silchar**, Payable at **State Bank of India, NIT Silchar** branch.

Brochure and registration form can also be downloaded from the institute website:

<http://www.nits.ac.in/workshops/>

Registration process: Advance scan copy of DD and Registration Form is to be sent to kedar.iitr@gmail.com on or before 10th March 2017.

The hard copy of original registration form and D.D. has to be submitted before the commencement of workshop at the registration desk.

ABOUT THE INSTITUTE

National Institute of Technology (NIT) Silchar, an Institute of National Importance under the NIT Act was established in 1967 as Regional Engineering College (REC) Silchar in Assam. In year 2002, it was upgraded to the status of an NIT from REC. NIT Silchar is situated on the banks of river Barak and on a sprawling campus spread over 600 acres of land on the outskirts of Silchar. The landscape of NIT Silchar campus is beautiful with natural lakes and hillocks, surrounded by tea gardens. The climate of Silchar during March is very pleasant with normal temperature around 27-30°C. NIT Silchar is a fully residential institution with nine hostels for boys and two hostels for girls. It has six engineering branches and five non-engineering branches. It conducts various programmes, including organizing the workshops, seminars, conferences, invited talks etc. in collaboration with different academic departments, institutes of repute and with various multinational and national industries.

ELIGIBILITY

This program is open to industrial personnel, faculty members and research scholars of technical institutions, engineering colleges, polytechnics, universities and other recognized academic institutions.

ACCOMMODATION AND TRAVEL

All the out station participants will be provided accommodation in the Institute on payment basis subject to available. No TA/DA will be paid to the participants.

HOW TO REACH NIT SILCHAR

The Silchar city is well connected by air, rail and road. Silchar is situated at a road distance of 334 km from Guwahati. NIT campus is about just 10 km away from Silchar railway station and 35 km from Silchar Airport. Details can be found in http://www.nits.ac.in/misc_docs/Reaching_NIT_Silchar.pdf

ADDRESS FOR COMMUNICATION

Dr.KedarNath Das, Coordinator,
Assistant Professor, Department of Mathematics,
NIT Silchar, Assam, India
Mobile: +91 9435176446
Email: kedar.iitr@gmail.com



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National Institute of Technology, Silchar (Assam)



Organized by:

DEPARTMENT OF MATHEMATICS



**NIT SILCHAR, SILCHAR
ASSAM-788010, INDIA**

Coordinator:

Dr.KedarNath Das

Department of Mathematics, NIT Silchar

ABOUT THE WORKSHOP

'Optimization' plays an important role in all branches of Management, Science and Engineering. Researchers struggle to find a way in solving optimization models arise in their research field. Identifying a suitable technique (either the traditional or the heuristic one), it becomes indeed a challenge for the researchers. This proposed workshop is expected to provide a robust platform to boost the research up towards innovating and designing new object oriented techniques. Some hands-on trainings of applying computational optimization techniques will be expected as a part of this program. Extensive interactions of research problems with the eminent subject experts from reputed premier institution over the country will add extra flavor to the quality of the workshop.

OBJECTIVES

- Experts to provide a platform to share their relevant knowledge and recent development concepts with the participants in the related research field of Optimization.
- To carryout hands-on training on software in Optimization.
- To form a bridge to minimize the gap between theory and practical knowledge.
- To create encouragement in future researchers in applying various optimization techniques.

CONTENTS

- Concepts on Optimization Techniques
- Mathematical Modelling of Optimization Problems
- Linear Optimization Techniques (Theories)
- Non-Linear Optimization Techniques (Theories)
- Recent Bio-inspired Optimization Techniques
- Networking Optimization
- Various applications of Optimization Techniques in Science and Engineering
- Hands-on training on Optimization software through MATLAB and jMetal
-

EXTERNAL SPEAKERS

Prof. K. Chaudhuri (Jadavpur University, Kolkata)
Prof. S. K. Udgata (University of Hyderabad)
Prof. A. K. Ojha (IIT Bhubaneswar)
Prof. J. C. Bansal (SAU, Delhi)
Prof. D. P. Acharya (VIT Vellore)
Prof. Amar Kishor (Amity University, Kolkata)
Mr. Kaustuv Nag (ISI Kolkata)

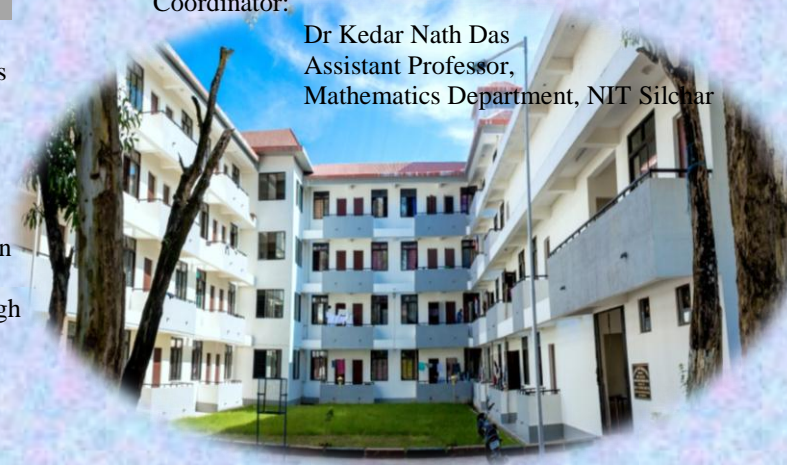
ORGANIZING COMMITTEE

Patron: Prof. Rajat Gupta, Director, NIT Silchar

Chairman: Dr. Santanu Roy, HOD, Mathematics

Members: Sri. Bijan Nath
Dr Pijus Kanti De
Dr Mausumi Sen
Dr Ganti Ramesh
Dr Md. Maqbul
Dr Juthika Mahanta
Dr B H S Raju
Dr Praveen Kumar Gupta
Dr Subrata Bera
Dr Pankaj Biswas

Coordinator:
Dr Kedar Nath Das
Assistant Professor,
Mathematics Department, NIT Silchar



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REGISTRATION FORM

1. Name (Capital):
2. Designation/Class:
3. Institution/Organisation:
4. Address for communication:
5. E mail:
6. Phone/Mobile No:
7. Highest educational qualification:
8. Paid accommodation required* (Tick): Yes/No (*in NIT campus, subject to availability)
9. Any other information:
10. Details of Registration Fee:
11. Recommendation of HOD:

12. D. D. No.: Date: Bank:

Place:

Date:

Signature of the applicant



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5. E mail: _____
6. Phone/Mobile No: _____
7. Highest educational qualification: _____
8. Accommodation required* (Tick): (Yes/No) _____
(*in NIT campus, subject to availability,
For outstation participants only)
9. Any other related information: _____
10. Details of Registration Fee: DD No.: _____ Date: _____ Bank: _____
(for outstation participants only)

Attach a recent
photo

Place:

Date:

Signature of the applicant

RECOMMENDATION/FORWARDING BY COMPETENT AUTHORITY

Forwarded and Recommended.

(Signature of the Competent Authority with seal)

NOTE:

- Selected participants are required to bring their **own laptop** during the workshop
- Please don't apply, if you are not prepared to attend most of this program. In such case, allow somebody else to be benefitted at your place.