

About NIT Uttarakhand:

National Institute of Technology Uttarakhand is amongst the 10 new NITs, located in the hilly terrain of Srinagar Garhwal on the banks of Alaknanda river. NIT Uttarakhand was established in 2009 under the Act of Parliament of India by the Ministry of Human Resource Development and designated with the status of "Institute of National Importance". The temporary campus of NIT Uttarakhand is functional from two campuses i.e. Polytechnic and ITI. The institute has made a rapid growth in the recent past in terms of starting new academic programs, revision of academic curriculum, development of laboratories and infrastructure.

Theme of the STTP-2019:

Knowledge and understanding of the basic principles and concepts of fluid mechanics and microfluidics are essential to analyze any problem in which a fluid is the working medium. The design of almost all means transportation requires application of fluid Mechanics. Computational Fluid Dynamics (CFD) is a tool being extensively used in research as well as in the industry for solving complex fluid flow and heat transfer problems. In recent past, CFD has developed into a rich and diverse subject and has emerged as a major component of applied and basic fluid dynamic research along with theoretical and experimental studies.

Objectives

- The program aims to impart the knowledge of the various techniques used for the fluid flow problems.
- The topics covered in the course will aid to the participants in selecting the right problems for their research work.
- To focus more emerging applications of the fluid mechanics and microfluidics in health care.

ORGANIZING COMMITTEE

PATRON

Prof. Shyam Lal Soni
Director, NIT Uttarakhand

CONVENERS

Dr. Lalta Prasad
Dr. Nitin Sharma

COORDINATORS

Dr. Dharmendra Tripathi
Dr. Niraj Kr. Mishra
Dr. Yogesh Kr. Prajapati
Dr. Dharendra B. Singh

Address for Correspondence:

Interested persons should send the nomination on the enclosed Performa duly signed by the appropriate authority along with the course fee to:

Dr. Niraj Kr. Mishra
Assistant Professor,
Department of Mechanical Engineering
National Institute of Technology, Uttarakhand
Satellite Campus-MNIT Jaipur, VLTC-3rd Floor,
JLN Marg, MNIT Jaipur – 302 017 (Rajasthan),
India
Mobile: +91 9678423858(M),
E-mail: nkm@nituk.ac.in

TEQIP-III SPONSORED

One week

Short Term Training Program

On

Emerging Topics in Fluid Mechanics

(October 14-18, 2019)



Jointly Organized By

Department of Mechanical Engineering
&
Department of Mathematics
National Institute of Technology Uttarakhand,
India

Venue: National Institute of Technology,
Uttarakhand

Satellite Campus-MNIT Jaipur
JLN Marg, MNIT Jaipur-302 017 (Raj.), India

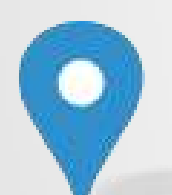


CONTENTS:

- ❑ Introduction to Microfluidics and Nanofluidics
- ❑ Multiphase Microfluidics
- ❑ Multiscale Modelling
- ❑ Mathematical Modeling of Biological Flows
- ❑ Introduction to CFD
- ❑ Applications of Microfluidics
- ❑ Stability Analysis of Fluid Flow
- ❑ Turbulent flow
- ❑ Compressible fluid flow
- ❑ Applications of micro flow in healthcare
- ❑ Transport Phenomena

Resource Persons:

- ❑ Prof. S. Chakraborty, IIT Khadagpur
- ❑ Dr Debabrata Dasgupta, IIT Delhi
- ❑ And Eminent Speakers from reputed institutions like IITs, NITs, Central Universities and R&D institutes

 **How to reach NIT UK, Satellite Campus-MNIT, Jaipur**
 Jaipur is well connected by road, rail and air services. It is about 270 kms from Delhi. MNIT Jaipur is situated on Jawaharlal Lal Nehru Marg and is about 9 kms from main railway station of Jaipur as well as from Central Bus Stand (Sindhi Camp). Airport (located at Sanganer) is about 5 kms away from the Institute.

Contact Details:

Dr. Dharmendra Tripathi	+91-8385882005
Dr. Lalta Prashad	+91-8979223769

About Jaipur

Jaipur is situated in Northern India at a distance of around 260 km south of Delhi. It offers a multitude of interesting places and attractions. Such as lush parks and places for recreation. There are several magnificent palaces and forts. It is a city of fun, food and festivals. Vibrant color, lively folk music and dance performances mark the celebrations of every religious occasion and every change of season.

Jaipur, known as the Pink City, was founded in 1727 AD by one of the greatest ruler of the Kachhawaha clan, the astronomer king Sawai Jai Singh.

REGISTRATION FORM

**One week
Short Term Training Program
On
Emerging Topics in Fluid Mechanics
(October 14-18, 2019)**

1. Full Name
2. Designation
3. Organization
4. Academic Qualification.....
5. Mailing address
6. Email
7. Phone/Mobile
8. Accommodation required: Yes/No.....
9. Payment Details:(CASH/ONLINE).....

Place :

Signature of applicant

Important Dates

Registration	September 30, 2019
Notification for Acceptance	October 10, 2019
Last date for Accommodation Requests	October 10, 2019

Accommodation & Transport:

Limited accommodation is available in the MNIT Hostels for outstation participants on nominal charge and first come first serve basis. Charges of Institute Hostel's Guest rooms are approximately ₹ 200/- per day. No TA/DA will be provided to the participants.

Registration Details

Registration Fee: There is limited number of sheets. And selection will be done on first come first serve basis. It is therefore advised that the candidates should get registration as soon as possible. However, no fee for the students (UG, PG & PhD) of TEQIP funded Institutions. Registration fee (non-refundable) includes registration kit, course certificate, tea and lunch.

Category of Delegates	Amount (₹)
Industry/ R&D Personal	3000.00
Academic	1500.00
UG/PG/PhD	500.00



State Bank of India

Bank Details:

Account Name	National Institute of Technology, Uttarakhand
Name of the Bank	State Bank of India
Bank A/c Number	37530566069
Bank Address	Srinagar, Distt- Pauri Garhwal Uttarakhand
IFSC Code	SBIN0003181

Contact Details:

Dr. D.B. Singh	+91-9450924373
Dr. Y.K. Prajapati	+91-7870166804