

# TEQIP - III

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME - III

## ONE WEEK SHORT TERM COURSE

on

## RESEARCH METHODOLOGY

(Under TWINNING Program)

27-31 MAY, 2019

### REGISTRATION PROFORMA

Name.....

Designation and Official Address.....

.....

Mailing Address.....

.....

Accommodation required: Yes/No

Phone/Mobile:.....

E-mail:.....

Payment Details: (CASH/ONLINE).....

.....

..... Dated.....

Applicant Signature

Authorized Signatory  
With Seal

### PATRON

**Prof. S L Soni**

Director, NIT, Uttarakhand

**Prof Udaykumar R Yaragatti**

Director, MNIT Jaipur

**Prof. Shailendra Jain**

Director, SLIET, Longowal

### CONVENERS

**Dr. Vinod Singh Yadav**

HOD, NIT, Uttarakhand

**Prof. Dilip Sharma**

HOD, MNIT Jaipur

**Prof. Rajesh Kumar**

HOD, SLIET, Longowal

### COORDINATOR'S

**Dr. Vikas Kukshal**

NIT, Uttarakhand

**Dr. M L Meena**

MNIT Jaipur

**Dr. Jagtar Singh**

SLIET, Longowal

**Dr. Anshul Sharma**

NIT, Uttarakhand

**Dr. Sushant Upadhaya**

MNIT Jaipur

**Mr. Anil Kumar Singla**

SLIET, Longowal

### ADDRESS FOR CORRESPONDENCE

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

**Dr. Vinod Singh Yadav**

HOD, Department of Mechanical Engineering

National Institute of Technology, Uttarakhand

Satellite Campus-MNIT Jaipur, VLTC-2<sup>nd</sup> Floor,

JLN Marg, MNIT Jaipur – 302 017 (Rajasthan), India

Mobile: +91-7742884444

E-mail: vsyadav@nituk.ac.in

or

**Dr. M. L. Meena**

Associate Professor

Department of Mechanical Engineering

Malaviya National Institute of Technology Jaipur

JLN Marg, Jaipur-302017.

Mobile: +91-9549654505

Email: mlmeena.mech@mnit.ac.in

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MAY  
2019

Jointly Organized By



Department of Mechanical Engineering  
National Institute of Technology, Uttarakhand  
Satellite Campus-MNIT Jaipur, VLTC-2<sup>nd</sup> Floor,  
JLN Marg, MNIT Jaipur-302 017 (Raj.), India  
&

Department of Mechanical Engineering  
Malaviya National Institute of Technology Jaipur,  
JLN Marg, Malaviya Nagar, Jaipur-302017 (Raj.), India  
&

Department of Mechanical Engineering  
Sant Longowal Institute of Engineering & Technology,  
Sangrur, Longowal – 148106 (Punjab), India

## INTRODUCTION

This one week short term course will assess the current state of knowledge and whether (and which) concepts of research methodology is suitable to develop statistical reasoning for budding researchers and the professionals. It will examine whether the focus should, in the short to long term, shift towards other methodologies.

## OBJECTIVES

- To aid faculties of UG and PG of Management and Engineering Institutes in their ongoing research.
- To impart the knowledge of decision making techniques among the Ph.D. scholars of various Management and Engineering Institutes.
- To establish and strengthen links with research Institutes and Organizations working in the area of current market research.

## SCOPE

The information available for decision making exploded in recent years, and will continue to do so in the future, probably even faster. Some of the information can be analyzed and understood with simple statistics, but much of it requires more complex, multivariate statistical techniques to analyze convert these data into knowledge. The topics included in the course are as follows:

- Introduction to research methodology
- Writing a research proposal
- Exposure to various reference management software
- Hypothesis Testing
- Multi Criteria Decision Making-FAHP and FTOPSIS
- CCD & Factorial design
- ANOVA Analysis
- Taguchi, & RSM Design
- IPR, Plagiarism
- Correlation and Regression Analysis

## SPECIAL NOTE

The decision to run the course depends on the response and number of candidates. It is therefore advised that the candidates should proceed to join the course only on receipt of confirmation of admission.

## RESOURCE PERSONS

Faculties from reputed institutions like IITs, NITs, Central Universities and R&D Institutes.

## TARGET AUDIENCE

This course is open to Academician, Research Scholars, UG/PG Students, persons working in R&D Organizations and Industries.

## REGISTRATION FEE

A letter of intent, forwarded by the head of the organization/institution, along with the remittance should reach the above mentioned address **on or before May 20, 2019**. Please include your contact e-mail, phone number, and address. For payment to be made online / by RTGS, find NIT Bank Account Details given:

<b>A/C Name</b>	National Institute of Technology Uttarakhand
<b>Bank Name</b>	SBI, Srinagar-Garhwal
<b>A/c No.</b>	37530566069
<b>IFSC Code</b>	SBIN0003181

Delegates	Registration Fee (₹)
Industry / R & D organization	₹ 3000/-
Academic	₹ 1500/-
UG/PG/Ph.D.	₹ 500/-

The applicants must also send an e-mail to

**vsyadav@nituk.ac.in** their indent to participate in the STC. However, no fee for the students (UG, PG & PhD) of TEQIP funded Institutions.

**Note:** Registration fee (non-refundable) includes registration kit, course certificate, tea and lunch.

## 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 Hostels Guest rooms are approximately ₹ 200/- per day. No TA/DA will be provided to the participants.

## VENUE

Department of Mechanical Engineering, Malaviya National Institute of Technology Jaipur

## ABOUT NIT, UTTARAKHAND

National Institute of Technology, Uttarakhand is located in the hilly terrain of Srinagar Garhwal, Pauri, Uttarakhand. 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". NIT, Uttarakhand is functional from two campuses i.e. parent campus at Srinagar (Garhwal) and satellite campus at MNIT Jaipur.

## ABOUT MNIT JAIPUR

The Institute is located in Malaviya Nagar on Jawahar Lal Nehru Marg, Jaipur, in a campus amidst beautiful surroundings with forest parks, public parks and hillocks. Jaipur, the pink-city of India, is a heady mix of tradition & modernity, vibrant with recreational, social as well as educational experiences for the students. It has all the facilities and entertainment a student needs: excellent international brand shops, restaurants, clubs, sports facilities and a thriving cultural scene. Extending into an area of over 312 acres of lush greenery, the campus of the institute is imaginatively laid-out with a picturesque landscape. It presents a spectacle of harmony in modern architecture and natural beauty which entralls and inspires.

## ABOUT SLIET, LONGOWAL

Sant Longowal Institute of Engineering & Technology (SLIET), Deemed to be University, has been established and funded by MHRD, Government of India in 1991 to provide technical education in emerging areas of Engineering and Technology. The Institute offers programs such as certificate diploma, undergraduate (B.E.) & postgraduate (M.Tech.) degrees and Ph.D. levels in various branches of Engineering and Technology.

## 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.