

COURSE OBJECTIVES

The objective of the course is to arm the participants with the necessary ideas and methods so that when some mathematical computation appear in research, one can tackle them with confidence, possibly for further independent study into specialized areas. Its major role is to summarize, crystallize, enhance and give a full forward orientation to various computational methods in the popular areas like differential equations, numerical techniques, mathematical modeling, optimization, control theory and statistical analysis of data.

COURSE CONTENTS

- Existence and Uniqueness of solutions to Boundary value problems
- Numerical Analysis of Differential equations
- Fractional Calculus and their engineering applications
- Theory and Applications of Fractional Differential equations
- Almost periodic solution of fractional differential equations
- Fractional order neural network model
- Approximations and Interpolations techniques
- Lie Theory and its connection with special function theory
- Deformation of Lie Algebras and their representations
- Image Processing
- Robotics and Control theory

Intended Audience:

The program is open to the interested Faculty Members, Ph.D. Research Scholars, Post graduate students of M.Tech. / MS, Project Staff / Research Staff involved with various government / industry sponsored projects in Engineering Institutions / Universities, and Professionals from Industry/Research Organizations working in concerned/allied discipline.

Important Dates:

Last date for Registration: 30.12.2017
Last Date for Intimation of acceptance: 02.01.2018

There are 45 seats for this Program. The registration shall be offered on first come first serve basis. The interested Faculty/ Professional/Research staff and scholars may express his / her intent through email with scanned copy of registration form with fee details. Confirmation shall be sent on receipt of scanned copy/ hard copy of duly filled registration form along-with program fee.

Registration Fee Details

The registration fee per participant is as under:

| Participants | Without Accommodation | With Accommodation (Dinner Inclusive) |
|---|-----------------------|---------------------------------------|
| Students (PG & M. Phil) | Rs. 2000/- | Rs. 3,000/- |
| Research Scholar | Rs. 2500/- | Rs. 3500/- |
| Faculty/Academician/ Industry Personnel | Rs. 4000/- | Rs. 5000/- |

The Registration fee includes the Course Kit, Certificate, High tea, Lunch, and Tea/Coffee during session breaks..

No TA/DA will be paid to the participants.

About the Coordinating Department

The Department of Mathematics, NIT Kurukshetra, a well-known center for education and research in Mathematics, has dynamic faculty with research interest in the area of fluid dynamics, numerical analysis, quantum algebra and special function, robotics and control theory, differential geometry of manifolds and summability theory etc.

REGISTRATION FORM

One Week Short Term Course
On

Current Trends in Mathematics and Applications (STCCTMA-2018)

January 15 - 20, 2018

Name: _____

Designation: _____

Organization: _____

Address for Correspondence: _____

Phone: _____

E-mail: _____

Qualifications: _____

Accommodation required: Yes/No

If Yes, Specify the dates:

Mode of Payment (**DD or SBI Collect**):

Payment Details: ***DD No.**: _____

Issuing Bank: _____

Amount: _____

Date: _____

****SBI Collect Receipt No.:**

(Signature of applicant)

***In favor of Director, National Institute of Technology, Kurukshetra” payable at Kurukshetra**

****For SBI collect: [Follow the Guidelines](#)**

ONE WEEK SHORT TERM COURSE
On
**Current Trends in Mathematics and
Applications (STCCTMA-2018)**

January 15 - 20, 2018

PATRON

Padam Shree Dr. Satish Kumar
Director, NIT Kurukshetra

CO-PATRON

Dr. Paras Ram
HOD, Mathematics
NIT Kurukshetra

COORDINATORS

Dr. Sarasvati Yadav
Dr. Amit Prakash
Dr. Naveen Kumar



DEPARTMENT OF MATHEMATICS
NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119, INDIA

About the Institute

National Institute of Technology Kurukshetra as a premier institute of the country, has emerged as a center of technical education and research. The academic programs of the Institute cover a wide range of science and engineering disciplines.

The Institute offers seven B. Tech., twenty-two M. Tech., MCA, MBA and Ph. D. programs in all the disciplines. The Institute has intake of about 1,500 students per year. NIT Kurukshetra has good infrastructural and research facilities in emerging areas. The faculty of the Institute has notable achievements in technology development, patents, high quality research output, consultancy and professional awards/recognitions.

About Kurukshetra

Kurukshetra is a place of great historical and religious importance, revered all over the country for its sacred association with the Vedas and the Vedic Culture. It was here that the battle of Mahabharat was fought and Lord Krishna preached his Philosophy of 'KARMA' as enshrined in the Holy Bhagwad-Gita, to Arjuna at Jyotisar.

Kurukshetra is spread over, a circuit of about 48 KOS which includes a large number of holy places, temples and sacred tanks connected with the religious events/rituals. Historically, during medieval period, Thanesar, the old name of Kurukshetra city, was the seat of power of King Harshwardhana.

Kurukshetra is well connected with rail/road. The Kurukshetra Railway Junction is on Delhi-Ambala section. It is situated on National Highway No. 44 connecting New Delhi to Ambala. The approximate distance of the place is 160 km from Delhi and 100 km from Chandigarh. Pipli is the place on NH-44 to get down for NIT Kurukshetra and a 10 km drive by Auto or Cab takes one to NIT Kurukshetra. Nearby airports are Chandigarh and New Delhi.

Shimla, Kasauli, Morni Hills are nearby Hill stations for weekend leisure.



**NATIONAL INSTITUTE OF TECHNOLOGY,
KURUKSHETRA**

Address for sending Registration form:

DR. AMIT PRAKASH

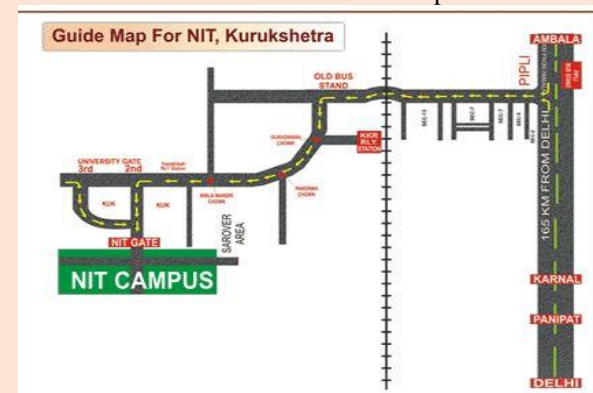
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How to reach NIT Kurukshetra from Pipli on NH 44



SHORT TERM COURSE
On
CURRENT TRENDS IN MATHEMATICS AND APPLICATIONS
(STCCTMA-2018)

January 15-20, 2018

Guidelines for fee deposit for STC through SBI collect:

REGISTRATION FEES

| Participants | Without Accommodation | With Accommodation |
|--|-----------------------|--------------------|
| Students (PG & M Phil) | 2000 | 3000 |
| Research Scholars | 2500 | 3500 |
| Faculty/Academician/ Industry Personnel | 4000 | 5000 |

Please consider following steps to make the payment for registration:

1. Go to link <https://www.onlinesbi.com/prelogin/icollecthome.htm>
2. Accept terms and conditions and then click on proceed
3. Select State Haryana
4. Type of corporate/institutions- select educational institutions then click on go
5. Educational institutions name- select Director, National Institute of Technology, Kurukshetra and then submit
6. Select payment category- Registration fee for STC on STCCTMA-2018
7. Fill the registration details and submit
8. Save the receipt for sending through mail
9. After the fee submit, please send the 'e-receipt' to mail math.nitkkr@gmail.com

REGISTRATION FORM
One Week Short Term Course
On
Current Trends in Mathematics and Applications
(STCCTMA-2018)

January 15 - 20, 2018

NAME:

DESIGNATION:

ORGANIZATION:

ADDRESS FOR CORRESPONDENCE:

PHONE:

E-MAIL:

QUALIFICATIONS:

ACCOMMODATION REQUIRED: YES/NO

IF YES, SPECIFY THE DATES:

MODE OF PAYMENT (**DD OR SBI COLLECT**):

PAYMENT DETAILS: ***DD NO.:**

ISSUING BANK:

AMOUNT:

DATE:

****SBI COLLECT RECEIPT NO.:**

(Signature of applicant)

***In favor of** Director, National Institute of Technology, Kurukshetra” payable at Kurukshetra

****For SBI collect: Follow the Guidelines**