

Chief Patron

Prof. P.K. Jain
Director, IIT (BHU), Varanasi

Patrons

Prof. B. K. Srivastava, Chairman, QIP Cell, IIT (BHU) Varanasi
Prof. L.P. Singh, Head, Department of Mathematical Sciences, IIT (BHU) Varanasi

Course Coordinators

Dr. Sunil Kumar
Dr. Vineet K. Singh
Dr. Rajesh K. Pandey

Organizing Committee

Prof. (Mrs.) R. Srivastava
Prof. L. P. Singh
Prof. S. K. Pandey
Prof. T. Som
Prof. (Mrs.) S. Mukhopadhyay
Prof. S. K. Upadhyay
Prof. S. Das
Prof. M. K. Vemuri
Dr. A. Gupta
Dr. Rajeev
Dr. R. K. Pandey
Dr. V. K. Singh
Dr. S. Kumar
Dr. A. Banerjee
Dr. V.S. Pandey
Dr. Lavanya S.
Dr. D Ghosh

About the City

The holy city of Varanasi is known as the city of temples and learning. It is a place of great historical and cultural importance. This religious capital of India is situated on the bank of the holy river Ganges and is famous for temples of Lord Shiva, Buddha (at Sarnath) and Sankat Mochan etc. Varanasi is the premiere most place of oriental learning also. Simultaneously it is keeping pace with modern advanced knowledge. The city is reputed for silk fabrics, perfumes, artistic brass and copper wares and a variety of handicrafts. This vibrant city with multiple dimensions of knowledge and liberation has a magnetic attraction for people all over the world.

Route to Varanasi

The city of Varanasi is well connected by road, rail and air with all the important places of India. Regular flights are there from Varanasi to Delhi, Mumbai, Chennai, Bangalore, Kolkata, Khajuraho and Lucknow. The Banaras Hindu University campus is only 10 Km from Varanasi railway station, 20Km from Mughalsarai railway station and 35 Km from the airport.

About the Department

The Department of Mathematical Sciences, IIT (BHU) earlier known as Mathematics / Applied Mathematics has been functioning since 1968. Its importance lies in the fact that it caters to the needs of the undergraduate as well as post-graduate students of the Institute. In addition, the Department runs its own 5-year Dual Degree (B Tech & M Tech) programme in Mathematics & Computing. Computing is the glamour of the Department. It annexes several dimensions in terms of new and growing areas of research and further facilitates simulation of mathematical models constructed for interdisciplinary areas.



Teaching Faculty

Subject experts from premier institutions such as IITs, IISc, and other institutes will be delivering the lectures with tutorial sessions.

Course Material

Hard / Soft copies of the lecture notes/presentations will be made available to participants at the end of lecture/presentation.



**AICTE sponsored Short Term Course
and
Continuing Education Program (CEP)
on
Computational Methods for Integral
and Differential Equations
(CMIDE 2018)
December 10-16, 2018**



**Organized
by
Department of Mathematical Sciences
Indian Institute of Tehnology (BHU)
Varanasi**

Contact us

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**QIP and CEP Short Term Course on
Computational Methods for Integral and
Differential Equations
(CMIDE 2018)**

December 10-16, 2018

Introduction and objectives of the course

Integral and differential equations arise as mathematical models in various branches of engineering and sciences. Integral and differential equations such as those used to solve real-life problems may not necessarily be directly solvable, that is, do not have closed form solutions. Instead solutions can be approximated numerically. So, the objective of the course is to present a variety of approaches for approximating solutions to such problems. Further, the analysis of these approaches in terms of convergence and stability will be addressed. Also their implementations using widespread conventional languages of scientific programming will be presented, leading to a deeper understanding of practical aspects of these approaches.

This short-term course will provide a forum to faculty members and young researchers to interact with eminent speakers and to enhance their cognizance in the field of computational methods for integral and differential equations. Further, this will allow communication of intra and inter disciplinary ideas and will result in acceleration of new collaborations of applied mathematicians, numerical analysts, and pure mathematicians.

Tentative List of Resource Persons

Prof. S. C. S. Rao: IIT Delhi
Prof. Alok Nath Chakrabarti: IISc
Bangalore
Prof. S. Sundar, IIT Madras
Prof. D.N. Pandey: IIT Roorkee
Prof. D. Bahuguna: IIT Kanpur
Dr. Goutam Dutta: IIITDM Jabalpur
Dr. S. Kumar: IIT (BHU) Varanasi
Dr. V. K. Singh: IIT (BHU) Varanasi
Dr. R. K. Pandey: IIT (BHU) Varanasi

Who can Attend?

- ✦ Faculty participants sponsored by AICTE approved institutions
- ✦ M.Sc./M.Tech./Ph.D. students from various institutes, universities and research organizations across the country.
- ✦ Faculty / Researchers / Scientist from academic/ technical institutions / industries and R&D Centre across the country.

Registration Process

Sponsored Participants (from AICTE approved institutions)

By Email – Scanned copy of the filled in application form duly endorsed by the forwarding authority to be mailed at stccmide@gmail.com by Nov. 10, 2018. Application format is given in this brochure.

There is no registration fee, but the selected participants have to send a demand draft for Rs. 2000/- drawn on any nationalized bank in favor of “Registrar IIT (BHU) Varanasi” to the course coordinators by **Nov. 25, 2018** as a caution deposit for confirmation of their participation. The caution money will be returned back only if the participant joins the course.

Other Participants

Scanned copy of the application form to be sent by email to stccmide@gmail.com on or before November 10, 2018, as per the application format given with this brochure. Registration fee must be paid by electronic transfer. The details of the account are given below. Kindly mention participant’s name and organization in the remark section during the bank transaction. Also send the proof of payment of online transfer. The fee includes a kit containing the study material and food charges.

Online Registration Fee Payment

Account holder name: **CMIDE 2018**
Account No.: **38007573621**
Bank name: **State Bank of India**
Branch: **IT-BHU**, Branch code: **11445**
Account type: **Current**, IFS Code: **SBIN0011445**

Registration Fee

Sponsored participants from AICTE approved institutions	NIL
M.Sc./M.Tech./Ph.D. students	Rs. 2360
Faculty/Scientist/Researchers from academic/technical institutions	Rs. 4720
Participants from industries	Rs. 5900

The paid fee will not be refunded under any circumstances.

Accommodation

Sponsored Participants (from AICTE approved institutions)

Accommodation and local hospitality will be provided only to the selected candidates from AICTE approved institutions in institute guest house/hostels.

Other Participants

The selected participants may be provided with accommodation at the Institute Guest House/ Hostels on nominal payment basis subject to availability. Request for accommodation has to be sent in advance. Otherwise, participants will have to make their own stay arrangement.

Financial Assistance to Sponsored Participants (from AICTE approved institutions)

Limited number of Participants (30) from AICTE approved engineering institutions will be eligible for to and fro railway fare via shortest route in III AC class and free lodging and boarding in the Institute guest house/hostels during course period. Candidates attending the course in full only will be eligible for TA. For all other participants no TA will be paid by IIT (BHU) Varanasi.

Important Dates

Course duration	December 10-16, 2018
Last date of registration	November 10, 2018
Intimation of selection by email	November 15, 2018

Indian Institute of Technology (BHU), Varanasi

Department of Mathematical Sciences

Registration Form

Computational Methods for Integral and Differential Equations
(CMIDE 2018)

December 10-16, 2018

1. Name

2. a) Age b) Sex: M/F

3. Designation

4. Organization

5. Address for correspondence

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E-mail..... Phone/Mobile.....

6. Highest academic qualification.....

7. Specialization

8. Category of participant

+ Sponsored participant from AICTE approved institutions

+ Faculty/Scientist/Researcher from academic and technical institutions

+ Industry participant

+ M.Sc./M.Tech./Ph.D. Student

9. IIT (BHU) accommodation required Yes No

10. Payment details (not required for sponsored participants from AICTE approved institutions)

+ Amount (Rs.)

+ Online transfer reference number.....

Please register me for the course on **Computational Methods for Integral and Differential Equations** to be held at IIT (BHU) Varanasi.

Date.....

Place

Signature of the Participant

SPONSORSHIP

Prof./Dr./Mr./Ms./Mrs./..... is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the short-term course "Computational Methods for Integral and Differential Equations" at IIT(BHU) Varanasi during date of CMIDE, if selected.

Date:

Designation:

Official Seal:

Signature of Sponsoring Authority