



ONE WEEK WORKSHOP

Hands-on-Training on Solving Differential Equations in Engineering Sciences

June 21-25, 2022 (Through Hybrid Mode)

Organized by Department of Mathematics, NIT Uttarakhand

About the Department of Mathematics:

The Department of Mathematics offers U.G. courses in all engineering branches and Ph.D. programs. The faculty of the department conducts research in areas such as summability and approximation theory, Mathematical modeling, Biofluids mechanics, Nanofluids, Energy storage, Bone mechanics, Pumping Mechanisms; Dynamical Systems, Microfluidics, Mathematical Biology, Computational Mechanics, Numerical Analysis, Fracture Mechanics, Smart Materials, Nonlinear Waves, Hyperbolic Systems of PDEs and other allied fields. Department is also planning to start MSc Program.

Objective of the Workshop:

The objective of this workshop is to provide an interactive platform to the participants (young faculty, researchers and Ph.D./M.Tech students) to learn new concepts and methods pertaining to differential equations and also to enhance their ability for problem solving in differential equations in the engineering sciences. It is also our intention to make the researchers aware of current challenges, opportunities and openings in the changed context of today's world.

Topics to be Covered:

The workshop on "Hands-on-Training on Solving Differential Equations in Engineering Sciences" will focus on the following areas:

- Homotopy Analysis Method;
- Shooting Method;
- Stability Analysis;
- Hybrid Methods;
- Pseudo time Derivative Approach for Elliptic Equations;
- Keller-Box Method;
- Finite Element Methods
- Finite Difference Methods

Invited Speakers



Prof. P. G. Siddheshwar

CHRIST University



Prof. B. V. Ratish Kumar

IIT Kanpur



Prof. S. Sundar

IIT Madras (NIT Mizoram)



Prof. A. K. Pani

IIT Bombay



Prof. Peeyush Chandra

IIT Kanpur



Prof. G. P. Raja Sekhar

IIT Kharagpur

Registration:

The workshop will be conducted during June 21-25, 2022. To register for this Workshop the applicant has to pay Rs.500/- in advance (Non-Refundable) as per the following details:

Account Name : NIT, Uttarakhand
Name of the Bank : State Bank of India
Bank A/c Number : 37530566069
IFSC Code : SBIN0003181
Bank Address: : Srinagar, Distt- Pauri
 Garhwal Uttarakhand
MICR No. : 246002902

Registration Form:

To participate in the workshop, fill the Google form via following link:

<https://forms.gle/gPJqVi9GQ7aHMhcg8>

***Certificate will be issued to participants after successful completion of the Course.**

Organizing Committee:



Chief Patron

Dr. R. K. Tyagi, Chairman BoG,
NIT Uttarakhand



Patron

Prof. Lalit Kumar Awasthi,
Director, NIT Uttarakhand

Conveners

Dr. Dharmendra Tripathi, Associate Professor

Dr. Kuldeep Sharma, Assistant Professor and HoD

Coordinators

Dr. Nitin Sharma, Assistant Professor

Dr. D. B. Singh, Assistant Professor

Dr. Kusum Sharma, Assistant Professor

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