



One Week Workshop

on

“Fundamentals of Differential Equations with Applications to Real World Problems”

Date: 8th to 13th July 2024

Department of Mathematics



Venue: Jaypee University of Information Technology, Wagnaghat (Shimla Hills), Himachal Pradesh, INDIA



Chief Patrons

Sh. Jai Prakash Gaur

Founder Chairman, Jaypee Group

Sh. Manoj Gaur

Executive Chairman, Jaypee Group

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Prof. (Dr.) R. K. Sharma

Vice Chancellor, JUIT, Wagnaghat

Dean (A&R)

Prof. (Dr.) Ashok K Gupta

Finance Chair & Registrar

Maj Gen (Retd.) Rakesh Bassi

Important Dates

Workshop Registration Begins: 05/04/2024

Workshop Registration Closes: 20/05/2024

Registration Payment Closes: 20/05/2024

Registration Fee * Details

Category	Reg. Fee. (in INR) Till 10th May 2024	Reg. Fee. (in INR) Till 20th May 2024
Research Scholar / PG Student	3000/-	3500/-
Faculty/Others	4000/-	4500/-
Industry Participant	4500/-	5000/-

* Reg Fee includes accommodation, Food & Welcome Kit

Registration Link

<https://forms.gle/75eFis6ThnxcWM127>

QR Code for Registration



Payment & Account Details

NAME OF BENEFICIARY : JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

NAME OF THE BANK : PUNJAB NATIONAL BANK

BRANCH NAME : SHIMLA

ACCOUNT NUMBER : 0427002100682105

RTGS/IFSC CODE : PUNB0042700

Coordinators:

Dr. Bhupendra K Pathak (98161 81519)

Dr. Saurabh Srivastava (99972 00244)

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Convener:

Prof. (Dr.) Rakesh K Bajaj

HoD, Department of Mathematics, JUIT,

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About the University

The Jaypee University of Information Technology (JUIT), Wagnaghat (Shimla Hills), was conceived by a joint vision of the Govt. of Himachal Pradesh and the Founder Chairman of Jaypee Group Shri Jai Prakash Gaur in 2000. The University campus is spread over 25 acres of lush green picturesque slopes of Wagnaghat hills in the Solan District of Himachal Pradesh. The smart campus is pollution free and enjoys lovely weather throughout the year. JUIT offers a challenging academic environment to its students. It aims to instill the habit of life-long learning and therefore, provides a learner-centric rather than a teacher-centric educational process. The system has been designed to provide students the freedom to learn what they want to learn at a desired pace.

About the Department

The Department of Mathematics is committed to impart high quality education in Mathematics at Undergraduate and Doctoral levels. The young and dynamic faculty members of the department have versatile experience both in teaching and research in various fields of Mathematics. In addition, the department runs its own Bachelor's degree B.Sc. (Hons.) in Mathematics and Computing & Ph.D. in Mathematical Sciences.

About the Workshop

This workshop is intended for Ph.D. students/PG Students/faculty in the universities and research institutions, participants from industry and others with the aim to enlighten the valuable insights into the fundamentals and latest advancements in differential equations. This workshop will be indeed immensely helpful to the researchers who are already familiar with the basics of DEs. Some of the highlights of the workshop are:

- Existence, uniqueness and continuation of solutions of Ordinary Differential Equations
- Stability theory with applications to Mathematical Modeling
- Introduction to Differential Inclusion and its application to Mathematical Modeling and Electrical/Mechanical Engineering
- Introduction to Multi-scale Analysis, Asymptotic expansion method with applications
- Advection equation, Burgers' equation, weak solutions, Riemann problem with applications

Resource Persons



Dr. Syed Abbas
Professor,
School of Mathematical
and Statistical Sciences,
IIT Mandi



Dr. D. N. Pandey
Associate Professor,
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Dr. Bidhan C Sardar
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Dr. Tanmay Sarkar
Assistant Professor,
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