A National Workshop
on

Algebra, Analysis and Differential Equations

[September 12–14, 2024]
[offline mode]

PATNA SCIENCE COLLEGE

Organized by:

Department of Mathematics
Patna Science College
Patna



About the College

Patna Science College, a constituent unit of Patna University, was established in 1927. Initially, it was opened as the Science Department of Patna University. It began functioning independently from 1928. Since then, Patna Science College has been recognized as a Premier Institution for higher learning in the science stream in India. The College is centrally located in Patna, the capital of Bihar, occupying an area of approximately 28.32 acres of land containing separate blocks of different science departments.

Objective

The main objective of the workshop is to explore the basic concepts of Algebra, Analysis, Fluid dynamics, Mathematical Modelling for real-life problems and Computer Applications, which will help UG, PG and Ph.D. students to learn and discuss various concepts from eminent Speakers.

Topics

- Basics concepts of Groups, Rings and Number theory and their applications in Coding Theory.
- Introduction to Mathematical Modelling: Application of Ordinary Differential Equations
- Applications in Integration Theory
- Introduction to the finite element methods.
- Applications of weak solution for differential equation
- Basics of Rees algebra and graded rings.
- Exploring the basic concept of metric space.

Organizing Committee

Chief Patron: **Prof. Ajay Kumar Singh**
Vice Chancellor
Patna University, Patna

Patron:
1. **Prof (Dr.) D. N. Thakur**
Principal
Patna Science College, Patna
2. **Dr. P. K. Choudhary**
Associate Professor & Head
P.G. Department of Mathematics
Patna University, Patna

Convener & Organizing Secretary:
Dr. Priti Singh
Assistant Professor & Head
Department of Mathematics
Patna Science College, Patna

Departmental Organizing Committee

- **Dr. S. B. Rai,** Associate Professor, P.G. Department of Mathematics, Patna University
- **Dr. Poonam Kumari,** Associate Professor, Magadh Mahila College, Patna
- **Dr. Dinesh Kumar Manjhi,** Assistant Professor & Head, Patna College, Patna
- **Dr. Abhishek Sharma,** Assistant Professor & Head, B. N. College, Patna
- **Dr. Binay Kumar,** Assistant Professor & Head, Magadh Mahila College, Patna
- **Avinash Kumar,** Assistant Professor, Patna College, Patna
- **Sharvan Kumar,** Research Scholar, Patna University
- **Md Mohiuddin Warsi,** Research Scholar, Patna University
- **Md Rajaullah,** Research Scholar, Patna University
- **Tanushri,** Research Scholar, NIT Patna

About the Department of Mathematics

The Mathematics Department of Patna Science College is situated in the Administrative Block of Patna Science College campus. The Department of Mathematics is one of the pioneering and most distinguished departments in Patna Science College, Patna. The Department had the privilege of having eminent scholars on its faculty. The teachers of the Department have been receiving national and international recognition for their high-quality teaching and research. The Department is committed to outstanding graduate training to produce leading scholars in various fields of Mathematics.

Advisory Committee

- **Prof. K.K. Jha**
  Ex-Vice Chancellor, Patna University, Patna
- **Prof. K. C. Sinha**
  Ex-Vice Chancellor, Patna University, Patna.
- **Prof. B G Prasad**
  Ex-Head P.G. Department of Mathematics, Patna University, Patna
- **Prof. Shiv Datt Kumar**
  MNNIT Allahabad, Prayagraj
- **Prof. Raja Sridharan**
  School of Mathematics, TIFR Mumbai
- **Prof. Vijay Kodiyalam**
  The Institute of Mathematical Sciences (IMSC), Chennai
- **Prof. Santosha Kumar Pattanayak**
  Department of Mathematics & Statistics, IIT Kanpur
- **Prof. Lalit Kumar Saran**
  Department of Mathematics, V.K.S.U. Arrah
- **Prof. Abhay Kumar Singh**
  Department of Mathematics & Computing, IIT(ISM), Dhanbad

Invited Speakers

- **Prof. B. G. Prasad**
  Department of Mathematics, Patna University
- **Dr. R. K. Jha**
  Department of Mathematics, NIT Patna
- **Dr. Gowrisankar S**
  Department of Mathematics, NIT Patna
- **Prof. Roushan Kumar**
  Department of Mathematics, CUSB Gaya
- **Dr. Anupam Priyadarshi**
  Institute of Science, BHU Varanasi
- **Dr. Pratibhamoy Das**
  Department of Mathematics, IIT Patna
- **Dr. Priti Singh**
  Patna Science College, Patna

Registration Fee:

The registration fee will be collected through Education Institutions of SBI Bank Collect in the "SCIENCE COLL EXAMINATION FUND, Bihar" account.

Rs. 500/- for B.Sc./M.Sc. Students
Rs. 700/- for Ph.D. Students.

Link for registration: Use the following link to register yourself in the workshop

https://forms.gle/BMZqFrKLRkeaU6WTA

Important Dates:

Last Date of fee Payment: ***September 11, 2024***

Last date for Registration: ***September 11, 2024***

Programme dates: ***September 12th to 14th, 2024***

Contact us:

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Venue:
Department of Mathematics
Patna Science College
Patna University, Patna

Accommodation will not be provided.

Website:
https://patnasciencecollege.ac.in/