

Objectives of Seminar

- To introduce the concept of linear differential equations with constant coefficients.
- To explore various methods for finding the general solution, including the characteristic equation method.
- To discuss techniques for solving homogeneous and non-homogeneous differential equations.
- To illustrate practical applications in engineering, physics, and applied sciences.
- To introduce numerical and computational approaches for solving differential equations.
- To enhance participants' problem-solving skills and analytical thinking.

Sub - Theme

- Theoretical Foundations of Linear Differential Equations.
- Analytical Methods for Solving Differential Equations
- Computational Approaches in Differential Equations.
- Role of Differential Equations in Engineering and Physics.
- Application of Differential Equations in Biological and Environmental Sciences.
- Laplace Transforms and Their Role in Solving Differential Equations.
- Numerical Techniques for Solving Higher-Order Differential Equations.
- Research Trends in Differential Equations and Their Applications.
- Key Topics to be Covered Introduction to Linear Differential Equations.
- Solving Homogeneous Differential Equations Characteristic Equations and Roots Analysis.
- Non-Homogeneous Equations: Methods of Undetermined Coefficients and Variation of Parameters.
- Applications in Real-World Problems (Electrical Circuits, Mechanical Vibrations, Population Growth, etc.).
- Computational Techniques using MATLAB/Python.
- Future Research Directions in Differential Equations

Organizing Committee

Dr. Mukesh Prajapat, Dr. Saeed Gul Khan, Dr. Leena Pathak
Dr. Jaya Gosan, Dr. Lakshmi Jain, Dr. Rajnrayan Damor
Dr. Rajesh Tripathi, Dr. Aparajit Prajapat, Dr. Meenkashi Adhikari
Dr. Rajiv Gandhi, Mr. Royal Dosi, Mr. Kailash Chand Katara
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Dr. Aditi Gour, Dr. Keshri Mal Ninama, Dr. Manohar Lal Swami
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Dr. Pratibha Dirwaya, Dr. Kantilal Ninama
Dr. Vikram Singh Solanki, Dr. Dinesh Kumar Teli
Dr. Omprakash, Dr. Ankita Rokadia Jain, Dr. Lalit Meena
Dr. Vishal Upadhyay, Dr. Gulabdhara Dwivedi
Dr. Praveen Jain, Mr. Rudradeep Goutam



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NATIONAL SEMINAR

on

“General Solution of Linear
Differential Equations
with Constant Coefficients”
&

“Vedic Mathematics”

MAY 15, 2025

Organised By



**Govind Guru Tribal University
Banswara (Raj.)**

Important Dates

Last Date of Registration :

13th May 2025

Last Date of Submission of Research Paper

13th May 2025



About the Govind Guru Tribal University

The Govind Guru Tribal University, Banswara named after the immortal warrior, freedom fighter and great social reformer Shri Govind Guru, Govind Guru Tribal University, Banswara is dedicated to establishing innovative paradigms in higher education within tribal regions. Its affiliated colleges are located in Banswara, Dungarpur and Pratapgarh. The University is primarily for higher education: research, innovations and development. It also aims at creating knowledge, sharpening vocational skills and developing appropriate attitudes among the promising young generation for the reconstruction of the society based on the highly cherished ideals of the functional democracy. The university is committed to providing quality oriented - meaningful education to the youth for their present academic needs and for their bright future. Many courses are presently running in the university. In which Commerce, Management, Science, Engineering, Arts, Yoga and many skill development courses etc are prominent.

About the Banswara

Banswara is also known as "City of Hundred Islands", which is often referred to as "Cherrapunji of Rajasthan", because it receives the most rain in Rajasthan, as well as for the numerous Islands in the Mahi River, which flows throughout the City. Mahi Bajaj Sagar Dam has been constructed on the Mahi, about 16 km away from Banswara City. The right and left main canals and there distributaries irrigate 60,149 hectares of land. The Banswara district is lies in the southernmost part of Rajasthan. It is surrounded by Pratapgarh in the north, Dungarpur in the west, Ratlam and Jhabua district of Madhya Pradesh in the east and south and Dahod district Gujarat to the South. The closest major City to Banswara is Udaipur which is 165 km away, Indore and Ahmedabad are also closed at 220 km and to 250 km away respectively. The town is 827 km from New Delhi and 710 km from Mumbai.

About the National Seminar

The National Seminar on "General Solution of Linear Differential Equations with Constant Coefficients" & "Vedic Mathematics" aims to bring together academicians, researchers, and students to explore the theoretical and practical aspects of linear differential equations.

This seminar will provide an interactive platform to discuss the fundamental concepts, solution techniques, and real-world applications of linear differential equations with constant coefficients. Enhanced understanding of linear differential equations and their solutions. Exposure to recent advancements in mathematical and computational techniques.

Identification of research gaps and new directions in the field. Strengthened academic and industry collaborations. Publication opportunities for selected research papers. Development of innovative problem-solving skills among participants.

Registration Fee :

Particular	Amount
Students	Rs. 200/-
Academicians, Research Scholars & Corporate Delegates	Rs. 500/-

Call for Papers

The Seminar invites full length original research contributions from Students, Research Scholars, Academicians and Professionals across the Nation.

Guidelines for Paper Submission

The manuscript should be prepared in the following format:
Title of the Paper, Name, Position, College/University, Contact No. & Email Id.

Abstract of not more than 300 words with 4-5 keywords at the end of Abstract.

Font size (12, Times New Roman, 1.5 line spacing)

Title of the Paper should be font size 16 & aligned.

Paper should be submitted in MS Word format only.

All references should follow APA style.

All Tables & diagrams should be properly numbered.

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The full length selected research papers will be reviewed and published in the ISBN or ISSN.

It is requested to submit the Manuscript by email to ggtunationalseminar2024@gmail.com

Mode of Payment

Beneficiary Name	Registrar GGTU Banswara Academic Department
A/c No.	41474061491
IFSC Code	SBIN0031231
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Seminar Registration Link:

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& Send Paper to Email :

ggtunationalseminar2024@gmail.com

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