



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(Deemed to be University)

(NAAC Accredited with A++ Grade)

DEPARTMENT OF ENGINEERING MATHEMATICS & COMPUTING

e-Newsletter

JULY –SEPT, 2025

visit us at: <https://web.mitsgwalior.in/academics/departments/engineering-mathematics-computing>



Bernhard Riemann
(1826-1866)

Bernhard Riemann is mostly known for the first rigorous formulation of the integral, the Riemann integral, and his work on Fourier series. His contributions to complex analysis include most notably the introduction of Riemann surfaces, breaking new ground in a natural, geometric treatment of complex analysis.

Vision

The Department of Engineering Mathematics & Computing was setup in 2020 to import knowledge of mathematics and computer science that serve the groom the academic potential of student and abreast with recent technological developments.

Mission

- ❖ To develop an ability towards critical questioning.
- ❖ To enhance logical attitude and aptitude ability.
- ❖ To nurture the computational aptitude on a global platform.



B. Tech. programme in Engineering Mathematics and Computing offers the opportunity to combine an appreciation mathematical thinking with knowledge of computing. Mathematics is a fundamental intellectual tool in computing, but computing is increasingly used as a key component in mathematical problem solving. The course concentrates on areas where mathematics and computing are most relevant to each other, emphasizing the bridges between theory and practice. It offers opportunities for budding scientist in the field of Mathematics & Computing.

PUBLICATIONS

PAPER PUBLICATIONS

- Farooq Ahmad, Ajjaz Maqbool, **D.K. Jain**, R. Vijaykrishnaraj, Aafaq A. Rather, D. Vedavathi Saraja, Syed M. Parveen, Raeesa Bashir, Showkat Ahmad Bhat: Fractional Integral Inequalities and their q-extension, **Journal Reliability: Theory & Applications** (ISSN 1932-2321), No 3 (86) Volume 20, September 2025, pp. 752-757.
- **Vijay Shankar Sharma**, Shivmangal, Anuraj Singh “A complex dynamics of discrete-time chemostat model: codimension-one and two bifurcations analysis”, **Journal of Applied Mathematics and Computing** (JAMC), (2025): 1-28, <https://doi.org/10.1007/s12190->



Book/Chapter Publication

- **Published Revised Edition of book ‘Numerical Analysis’**, Page 172, First Edition 2019-20 (Revised Edition 2021 and Revised Edition 2025-26) for B. A., B.Sc., & All Branch of Engineering courses in Kashmir University, **Jammu University and Islamic University Science & Technology** etc. students to Choice Based Credit System as per the new Syllabus: By **Mamta Publications Pvt. Ltd.**, Srinagar (Kashmir) ISBN 978-93-84122-05-8. Authors: **Dr. D K Jain (MITS-DU)** & Dr. Farooq Ahemad (Kashmir University).

PAPER PRESENTED IN CONFERENCE

- **Dr. Anand Pawar**, presented paper entitled “Two-Dimensional Modeling of Neuronal Calcium Signaling Regulating A β Production with Non-Homogeneous Mechanisms” in the **International Conference of Gwalior Academy of Mathematical Science (ICGAMS-2025)** being held at **Maulana Azad National Institute of Technology (MANIT), Bhopal, Madhya Pradesh** during 25-27 September 2025.

OTHER NOTABLE ACHIEVEMENTS OF THE FACULTIES

- **Dr. D K Jain** has evaluated PhD thesis of Mathematics discipline and conducted PhD viva voce exam of a candidate of JECRC University, Jaipur on 28 August 2025.
- **Dr. Atul Kumar Ray, Dr. Anand Pawar and Dr. Nidhi Humnekar**, Session Chaired, 11th International Conference and 12th Annual Conference on Gwalior Academy of Mathematical Sciences, organised by the Department of Mathematics, Bio-informatics and computer applications, **Maulana Azad National Institute of Technology (MANIT) Bhopal** during 25 -27 Sept 2025.

ACTIVITIES AND ACHIEVEMENTS BY STUDENTS OF THE DEPARTMENT

1	BTMC25O 1079	Naitik Goyal	First	No Code Knockout	https://drive.google.com/open?id=1DIB4w4Ls189wTHOqrqEsLvLFGzjGNGdd
2	BTMC25O 1057	karan patel	First	Blood donation camp	https://drive.google.com/open?id=1MBUrNxazNhizbaT2_pikPARPmjulasYQ
3	BTMC24O 1025	Aneeka Dwivedi	Second	Bhartiya Antariksha Hackathon	https://drive.google.com/open?id=1oqIKcQ24wie2wdvcA6V6o3jEyBC6o2Jl
4	BTMC24O 1032	Arpit Yadav	Second	HackOrbit hackathon	https://drive.google.com/open?id=1NrTeVeMCzVF0oJCp-3Ovx12jGaS2IT4y
5	BTMC24O 1032	Arpit Yadav	Second	AI Unbox	https://drive.google.com/open?id=1xUUW0LXao5ss9kw0ZqJuVXchK35J7X8C
6	BTMC25O 1126	Shekh Raheeq	First	Slides & Stride	https://drive.google.com/open?id=1R2kBuxzyhGZJDA5d8DVA6krsBbE1rrp
7	BTMC24O 1141	Utkarsh Tripathi	Second	Kabaddi , Volleyball, Basketball	https://drive.google.com/open?id=1ZNPoOdlkJxrAw3qyzl_63cD2LmXrjsdx
8	BTMC25O 1096	Pranjal Bhatnaga r	First	Treasure Hunt	https://drive.google.com/open?id=1qRgPW_PzxExNaulfd35nLQG-WVa_G813
9	BTMC24O 1127	Shrishti Vaishnav	Second	Coderush conducted by GFG	https://drive.google.com/open?id=1nbJOLjoYjacU4Rhcu50IJKoLLelhDMMq

10	BTMC240 1069	Ketan Malviya	Second	Treasure hunt	https://drive.google.com/open?id=1xQvh5x-H4_ceJJQGZruArNBbxLQ8omQp
11	BTMC250 1035	Aviral Pathak	First	AI unboxed (SCRS)	https://drive.google.com/open?id=1KfmudGFzzhtUR28DVycCvzaIeN4Obo7T
12	BTMC250 1012	Amrit Dubey	First	Talaash,GFG CodeRush , Number Ninjas ,SIH	https://drive.google.com/open?id=1gXLKEFVCsEn9PK2IElmgC3A_BoPiiAO4
13	BTMC250 1108	Priyanshi Soni	First	AI UNBOXED	https://drive.google.com/open?id=1pLCTfzQ9O_SEDWeMPHpdZjA3CiZ3lYHy

Congratulation to all Students of MAC

SOME GLIMPSES



DEPARTMENTAL/INSTITUTIONAL SOCIAL MEDIA ACCOUNTS



<https://www.youtube.com/c/MITSLive>

Link: https://www.youtube.com/@mits_mathematicscomputing2531



Link: https://www.instagram.com/invites/contact/?i=1wta8dhr95ncp&utm_content=p8ctdpe



Link: <https://www.facebook.com/MitsMadhavIstituteOfTechnologyScienceGwalior>



Departmental Editorial Board
E-Newsletter Coordinator

Dr. Atul Kumar Ray and Dr. Vijay S. Sharma