



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(Deemed to be University)

(NAAC Accredited with A++ Grade)

## DEPARTMENT OF ENGINEERING MATHEMATICS & COMPUTING

e-Newsletter

APR –JUNE, 2025

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



Peter Gustav Lejeune  
Dirichlet (1805-1859)

Dirichlet first used the pigeonhole principle, a basic counting argument, in the proof of a theorem in diophantine approximation, later named after him Dirichlet's approximation theorem. He published important contributions to Fermat's Last Theorem, for which he proved the cases  $n = 5$  and  $n = 14$ , and to the biquadratic reciprocity law.

### 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

- Priyabrata Sethy, Amit Kumar, **Atul Kumar Ray**, V.K. Chaurasiya, A. N. Dev, M.A. Sheremet, Magneto-thermogravitational convective flow of hybrid nanomaterial within an enclosure subject to partially active side walls. ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik, 105(5), e70055 (2025). (SCI), <https://doi.org/10.1002/zamm.70055> I.F. – 3.2 (ISSN: 1521-4001).
- P. Deolia, **Vijay Shankar Sharma** & A. Singh, Exploring Discrete-Time Epidemic Behavior Based on Saturated Incidence Rate and Multiple Transmission Pathways. Qual. Theory Dyn. Syst. 24, 136 (2025). (SCI-Q1) <https://doi.org/10.1007/s12346-025-01290-2> I.F - 2.1.



#### WORKSHOP/ WEBINAR/FDP ATTENDED

- ❖ **Dr. Vikas Shinde**, attended Two week FDP on Current Advancements in Artificial Intelligence, Machine Learning, and Data Science, during June 16-25, 2025 ,organized jointly by Department of Mathematics, Jaypee Institute of Information Technology (JIIT), Noida, Uttar Pradesh (INDIA) and Electronics & ICT Academy (Ministry of Electronics & Information Technology, GoI, New Delhi), National Institute of Technology Warangal.
- ❖ **Dr. Vijay Shankar Sharma**, attended a three days' online workshop on Theoretical and Computational Dynamics of biological systems. organized by the department of Engineering Mathematics, ABV- IIITM Gwalior, during 9-11 April. 2025.
- ❖ **Dr. Vijay Shankar Sharma**, attended a one-day online workshop on MATLAB Essentials: An Indispensable Tool for Students, Young Researchers, and Engineers, organized by MathTech Thinking Foundation(MTTF), on 25 May 2025.

## OTHER NOTABLE ACHIEVEMENTS OF THE FACULTIES

- ❖ **Dr. Atul Kumar Ray**, Reviewer, Engineering Applications of Artificial Intelligence, SCIE, Submitted report on 15/06/2025
- ❖ **Dr. Atul Kumar Ray**, Reviewer, Alexandria Engineering Journal, SCI, Submitted report on 13/06/2025
- ❖ **Dr. D K Jain**, has evaluated the PhD thesis of Mathematics discipline of a candidate of **JECRC University**, Jaipur on 27 June 2025.
- ❖ **Dr. Vijay Shankar Sharma**, Reviewer, The **International Journal of Mathematical, Engineering and Management Sciences (IJMEMS)**, ESCI, Submitted report on 22/04/2025
- ❖ **Dr. Vijay Shankar Sharma**, Reviewer, **The Qualitative Theory Of Dynamical Systems (QTDS)**, SCI, Submitted report on 15/05/2025
- ❖ **Dr. Anand Pawar**, Reviewer, **Physics of Fluids (SCIE, Q1)**, submitted a report on 11/04/2025.
- ❖ **Details of Karmyogi**

S/No.	Name of Faculty	Name of the Course (s) - Date
1	<b>Dr. Atul Kumar Ray</b>	1. Training Module on Swachata Hi Seva - 2024- -13/06/2025 2. AI Using Google Bard and ChatGPT for Beginners -13/06/2025
2	<b>Dr. Divya Chaturvedi</b>	1. Training Module on Swachata Hi Seva - 2024- -19/06/2025 2. AI Using Google Bard and ChatGPT for Beginners -23/06/2025
3	<b>Dr. D K Jain</b>	1. Civil Defence Services -11 June 2025 2. Artificial Intelligence AI for Good Innovate Empower and Transform-12 June 2025 3. Model Artificial Intelligence Law-13 June 2025 4. Yoga Pranayama-14 June 2025 5. Training Module on Swachata Hi Seva-2024 -12 June 2025
4.	<b>Dr. Vijay Shankar Sharma</b>	1. Overview of Vikshit Bharat 2047, 11 June 2025 2. YogaBreak at Workplace, 13 June 2025
5	<b>Dr. Anand Pawar</b>	1. Yoga Break at Workplace, 12/06/2025 2. Code of Conduct for Government Employees, 12/06/2025 3. Training Module on Swachta Hi Seva-2024, 12/06/2025 4. AI Using Google Bard and ChatGPT for Beginners, 12/06/2025

## ACTIVITIES AND ACHIEVEMENTS BY STUDENTS OF THE DEPARTMENT

Enrollment No.	NAME	SEMESTER	NAME OF EVENT	LINK OF CERTIFICATE
BTMC24O1153	Yash Tomar	3rd	Codemap 2.0	<a href="https://drive.google.com/open?id=19_kiGX0AovYU2O99y8-KujBqiTYPsc58">https://drive.google.com/open?id=19_kiGX0AovYU2O99y8-KujBqiTYPsc58</a>
BTMC24O1153	Yash Tomar	3rd	Quiztopia:The Science Showdown	<a href="https://drive.google.com/open?id=1yjSPGYCbk7ikLYawWhK-7z4wi_pRjLSM">https://drive.google.com/open?id=1yjSPGYCbk7ikLYawWhK-7z4wi_pRjLSM</a>
BTMC24O1153	Yash Tomar	3rd	Dataviz	<a href="https://drive.google.com/open?id=1fVYnOQUPi7Zbsrx2-HmlaYlc8vrbn">https://drive.google.com/open?id=1fVYnOQUPi7Zbsrx2-HmlaYlc8vrbn</a>
BTMC24O1093	Pari Gupta	3rd	Virtual internship	<a href="https://drive.google.com/open?id=1PTgBLJuyF6ogggH1fd4EwbJq6-z_qba">https://drive.google.com/open?id=1PTgBLJuyF6ogggH1fd4EwbJq6-z_qba</a>
0901MC221009	Aniket Dandotiya	7th	Data Science and Analysis Intern	<a href="https://drive.google.com/open?id=14N792HcIykJenzve56r45DrtYPHZCfga">https://drive.google.com/open?id=14N792HcIykJenzve56r45DrtYPHZCfga</a>
BTMC24O1084	Naman Jain	3rd	Outrix Internship Data Science	<a href="https://drive.google.com/open?id=1ou7r4YEtGozpJZDMkMUra9YYWvSPOoct">https://drive.google.com/open?id=1ou7r4YEtGozpJZDMkMUra9YYWvSPOoct</a>
0901MC221022	Aryan Ujjainiya	7th	AWS Summit India Online	<a href="https://drive.google.com/open?id=1rKlqGFXMCF1Q6txEADuz6RbKYCmtiSE">https://drive.google.com/open?id=1rKlqGFXMCF1Q6txEADuz6RbKYCmtiSE</a>
BTMC24O1144	Vanshika Bhalla	3rd	GenAI for Data Analytics - WsCube Tech (Participation in June)	<a href="https://drive.google.com/open?id=1K8LnJcwuyDEWP_e2WWUSv5F09POwFtnl">https://drive.google.com/open?id=1K8LnJcwuyDEWP_e2WWUSv5F09POwFtnl</a>
0901MC221025	Avinash Gour	7th	Virtual internship on Artificial intelligence and data analytics	<a href="https://drive.google.com/open?id=1kR9UyOXQDzg3AXUiM68m-U1vTnZ2F04v">https://drive.google.com/open?id=1kR9UyOXQDzg3AXUiM68m-U1vTnZ2F04v</a>
BTMC24O1025	Aneeka Dwivedi	3rd	MACHINE LEARNING COURSE FROM STANDFORD UNIVERSITY(COURSERA)	<a href="https://drive.google.com/open?id=1YBcdXUco7Y3XvSMJH_ccFB9PTeqm_cT">https://drive.google.com/open?id=1YBcdXUco7Y3XvSMJH_ccFB9PTeqm_cT</a>
btmc24O1072	kiran tomar	3rd	hachkorbit hackathon	<a href="https://drive.google.com/open?id=19amM_V5FeLpSVOM4M964I5WwV14CxHe8">https://drive.google.com/open?id=19amM_V5FeLpSVOM4M964I5WwV14CxHe8</a>
0901MC221018	Aradhy Singh Raghav	7th	KRONOS'25 Tech Blitz Hackathon	<a href="https://drive.google.com/open?id=1JDJkVZkDL3dg_66rd71ngpMXBW8ILRG6">https://drive.google.com/open?id=1JDJkVZkDL3dg_66rd71ngpMXBW8ILRG6</a>
0901MC231061	SARTHAK SINGHAL	5th	Code coalescence Hackathon 2025	<a href="https://drive.google.com/open?id=1-CGzHyqhFPOHrmQPefz7F3e_DJ3jv3V">https://drive.google.com/open?id=1-CGzHyqhFPOHrmQPefz7F3e_DJ3jv3V</a>
BTMC24O1100	PRAVEEN SOLANKI	3rd	GSSoC(Girl Script summer of code) Contributor, participated in open source connect india	<a href="https://drive.google.com/open?id=1FQpCbIDfZbuDqmRyFW6m2q5vijYgYb2">https://drive.google.com/open?id=1FQpCbIDfZbuDqmRyFW6m2q5vijYgYb2</a>
BTMC24O1014	Aditya Singh Tomar	3rd	NEXUS quiz	<a href="https://drive.google.com/open?id=1qKieLLx2xpnGawcSLmZDMm11JTqez7z">https://drive.google.com/open?id=1qKieLLx2xpnGawcSLmZDMm11JTqez7z</a>
BTMC24O1010	Adarsh Soni	3rd	HackOrbit 2025 – National Hackathon, Gridtech: Where energy meets code, Training and Placement cell Students Coordinator, GirlScript Summer of Code 2025, Cognifyz Internship, IBM Python Certificate	<a href="https://drive.google.com/open?id=1cGKIUL5ASZ5040Jg-uljQngisoUXHm2">https://drive.google.com/open?id=1cGKIUL5ASZ5040Jg-uljQngisoUXHm2</a>
BTMC24O1037	Ayush Gupta	3rd	Machine learning BootCamp	<a href="https://drive.google.com/open?id=1fRfInDoVlUfUFW18BjbFrD9XArMBfrGg">https://drive.google.com/open?id=1fRfInDoVlUfUFW18BjbFrD9XArMBfrGg</a>
BTMC24O1009	Adarsh Mishra	3rd	Nexus quiz	<a href="https://drive.google.com/open?id=1coFR_pQxtOvH4MLnZS2U48Pbjgd37I">https://drive.google.com/open?id=1coFR_pQxtOvH4MLnZS2U48Pbjgd37I</a>
BTMC24O1009	Adarsh Mishra	3rd	Shaam-e-ulfat	<a href="https://drive.google.com/open?id=1punUaiutXxYBoSRMv01OLRGiu9qPrr0">https://drive.google.com/open?id=1punUaiutXxYBoSRMv01OLRGiu9qPrr0</a>



0901MC221029	Deepak Rathore	7th	algo aura	<a href="https://drive.google.com/open?id=1nempYHbaor9_llgXgnWsI5vSWR_POqin">https://drive.google.com/open?id=1nempYHbaor9_llgXgnWsI5vSWR_POqin</a>
BTMC24O1133	SONALI CHAUHAN	3rd	Enigma 2k25	<a href="https://drive.google.com/open?id=1oitZm-4gzPSyDfA3M35w4og0UeyGDtE6">https://drive.google.com/open?id=1oitZm-4gzPSyDfA3M35w4og0UeyGDtE6</a>
BTMC24O1133	SONALI CHAUHAN	3rd	Enigma 2k25	<a href="https://drive.google.com/open?id=1JbCO_bSFz-Q70D-g-RRB7umrhdkwAUIP">https://drive.google.com/open?id=1JbCO_bSFz-Q70D-g-RRB7umrhdkwAUIP</a>
BTMC24O1133	SONALI CHAUHAN	3rd	Enigma 2k25	<a href="https://drive.google.com/open?id=11R6V255WAhMZJR1LIYEIVEWS78ble2xK">https://drive.google.com/open?id=11R6V255WAhMZJR1LIYEIVEWS78ble2xK</a>
BTMC24O1133	SONALI CHAUHAN	3rd	Enigma 2k25	<a href="https://drive.google.com/open?id=1cBkjeWOFAy22ELU8oV80_C70du-1Vhvz">https://drive.google.com/open?id=1cBkjeWOFAy22ELU8oV80_C70du-1Vhvz</a>
BTMC24O1133	SONALI CHAUHAN	3rd	enigma 2k25	<a href="https://drive.google.com/open?id=1HZQR01bIR1DLLgsXIH9pF68rvS-SOUNG">https://drive.google.com/open?id=1HZQR01bIR1DLLgsXIH9pF68rvS-SOUNG</a>
BTMC24O1133	SONALI CHAUHAN	3rd	enigma 2k25	<a href="https://drive.google.com/open?id=1OtpH9VtIb4BNHH6NRBz12AvHxph1vsMDM">https://drive.google.com/open?id=1OtpH9VtIb4BNHH6NRBz12AvHxph1vsMDM</a>

**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](https://www.youtube.com/@mits_mathematicscomputing2531)



Link: [https://www.instagram.com/invites/contact/?i=1wta8dhr95necp&utm\\_content=p8ctdpe](https://www.instagram.com/invites/contact/?i=1wta8dhr95necp&utm_content=p8ctdpe)



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