



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(Deemed to be University)

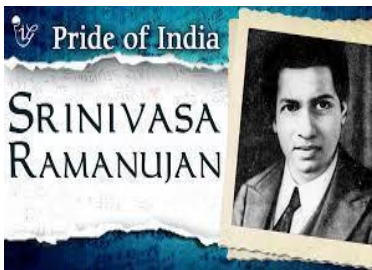
NAAC Accredited with A++ Grade

DEPARTMENT OF ENGINEERING MATHEMATICS & COMPUTING

e-Newsletter

Jan- March, 2024

visit us at: <http://mitsgwalior.in/department/engineeringmathematics&computing>



“NO, IT IS A VERY INTERESTING NUMBER, IT IS THE SMALLEST NUMBER EXPRESSIBLE AS A SUM OF TWO CUBES IN TWO DIFFERENT WAYS.”

**** Srinivasa Ramanujan ****

Vision

The Department of Engineering Mathematics & Computing was setup in 2020 to impart knowledge of mathematics and computer science that serve to 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.

PAPER PUBLISHED

FACULTY OUTREACHED

Sethy, P., Kumar, A., Ray, Atul Kumar, Kumari, A., & Tlau, L.:

- ❖ Synergistic Impacts of Radiative Flow of Maxwell Fluid Past a Rotating Disk with Reactive Conditions: An Arrhenius model Analysis. *Chinese Journal of Physics*, (2024), 89, 761-792. (Elsevier, SCI, I.F. - 5.0)

Shahjad Ali , Manish Baboo Agarwal , Sitaram Verma , Raisul Islam , Rajesh Kumar Deolia, **Jitendra Kumar**, Shailendra Singh, Ali Akbar Mohammadi, Manoj Kumar Gupta, Mehdi Fattahi P. U. Nguyen:

- ❖ Groundwater quality assessment using water quality index and principal component analysis in the Achnera block, Agra district, Uttar Pradesh, Northern India, *Scientific Reports*, Nature Article number: 5381, (2014), Vol. 14, pp. 1-13.

Shinde, Vikas, Rahul Jha, and Dilip Kumar Mishra

- ❖ Improved Chaotic Sine Cosine Algorithm (ICSCA) for global optima, *International Journal of Information Technology* 16.1 (2024):PP. 245-260.

BOOK CHAPTER/BOOK PUBLISHED

- ❖ **Ray, A. K., Vasu, B., Kumar, A., Tanwar, D. V., Chaturvedi, D., & Poonia, M. (2024)**, Residual and computational time analysis of the boundary-layer flow. In *Modeling and Simulation of Fluid Flow and Heat Transfer* (pp. 77-85). **CRC Press.**

Research Paper Present in Conference

- **Jitendra Kumar**, Assessment of Enhancing Cost Efficiency in Cloud Computing Systems through Queueing Models, 6th International Conference on Emerging Trends on Sustainable Approaches in Science & Technology (ICETSAST-2024), organized by Maa Shakumbai Trust, Greater Noida, UP India, 2024.

ATTENDED WORKSHOP/ WEBINAR/ FDP

- **Dr. Jitendra Kumar, Dr. Atul Kumar Ray and Dr. Divya Chaturvedi** attended a week Peer Learning Training Programme titled: “Artificial Intelligence and Machine Learning - Basics”, Centre for Artificial Intelligence, Madhav Institute of Technology & Science, Gwalior during 08 January 2024 to 12 January 2024.
- **Dr. Jitendra Kumar** attended Two-Week Faculty Development Program on Data Science and Scientific Computing, held on 3- 16 Jan. -2024, jointly organized by Central University of Punjab, Bathinda, Punjab, and Dr. B. R. Ambedkar National Institute of Technology, Jalandhar and Mizan- Tepi University, Ethiopia with collaboration Baba Farid College, Bathinda & MathTech Thinking Foundation, India
- **Dr. Dilip Kumar Mishra** attended one Week Faculty Development Program for STEM Professional on Advancing Research Methodology through Scientific Tools and Artificial Intelligence, held from 05-09 February 2024 jointly organized by the Sardar Vallabhbhai National Institute of Technology, Surat, India, Poornima College of Engineering ,Jaipur, India, Nexus University , South Africa , Research and Development cell, PCE, Jaipur,India, MathTech Thinking Foundation, Fazilka, India.

Organized Webinar/ Workshop

- ❖ Webinar on “DATA-SPHERE” by “Analytic Club” (Coordinator - Dr. Divya Chaturvedi, MITS) on 2nd September, 2023.

Extra Achievement

- Dr. Vikas P Shinde, Dr. Atul Kumar Ray, Dr. Minakshi, and Dr. Divya Chaturvedi, Chaired a Session in IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2024), organized by IEEE MP Section and ABV-IIITM Gwalior, India on 14-16 March 2024.
- Dr. Atul Kumar Ray, Reviewed an Article in International Journal “Energy”, Elsevier, ISSN: 1873-6785 (SCI, Impact Factor - 9)
- Dr. Atul Kumar Ray, Reviewed an Article in “HELIYON”, Elsevier, ISSN: 2505-8440 (SCI, Impact Factor - 4)

PHOTO GALLERY



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