



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A GOVT AIDED UGC AUTONOMOUS & NAAC ACCREDITED INSTITUTE AFFILIATED TO RGPV BHOPAL)

DEPARTMENT OF ENGINEERING MATHEMATICS & COMPUTING

e-Newsletter

Oct - Dec - 2022

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



Cartan Elie
(1869-1951)

Cartan Elie was influential mathematician who did fundamental work in theory of Lie Group, differential system and differential Geometry. His major contribution was on hyper-complex number system. Most of his development depends on characteristic equation of linear associative algebra.

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

- **Jitendra Kumar**, Vikas Shinde, Study of Production System and Repair System with Maintenance Policy, Advances and Applications in Mathematical Sciences Volume 21, Issue 12, Pages 6871-6885, Oct 2022.
- **D. K. Jain**, Kalpana Rajput, Rajshreemishra , Farooq Ahmad, Peer Javaid Ahmad, Certain quantum calculus operators associated with the q-Analogue of Aleph-Function, International Journal of Enhanced Research in Educational Development (IJERED), Vol. 10 Issue 6, Nov-Dec, 2022.
- **D. K. Jain**, Kalpana Rajput, Rajshreemishra , Farooq Ahmad, Peer Javaid Ahmad, On Fractional Integral Inequalities Involving Riemann-Liouville Operators, International Journal of Innovative Research in Multidisciplinary Education(IJIRME), Volume 01 Issue 03 , Page No. 83-85, November 2022.



BOOK CHAPTER PUBLICATIONS

- **Atul Kumar Ray**, Divya Chaturvedi, Minakshi Poonia, Convective Flow Of Non-Newtonian Fluid Over The Surface With Cattaneo-Christov Model, Proceedings of International Conference on Advances in Transport Phenomena, Chapter-57, Page no- 147-149, ISBN 978-81-952903-0-7, November 2022.

PAPER PRESENTED IN CONFERENCE

- **Jitendra Kumar** “Evaluation of Optimize Cost of Cloud Computing Systems using Queueing Model”, “International Conference on Evaluation in Pure & Applied Mathematics”, Department of Mathematics, Akal University, Talwandi Sabo, Bathinda, Punjab (India), November 16-18, 2022.
- **Rahul Jha** “Transient and Availability Analysis of Glass Manufacturing System”, “International Conference on Evaluation in Pure & Applied Mathematics”, Department of Mathematics, Akal University, Talwandi Sabo, Bathinda, Punjab (India), November 16-18, 2022.
- **Rahul Jha** “Statistical Analysis of Online Knowledge sharing of Air Travelers”, “International Conference on Non-linear Analysis and Applications”, Institute of Physics and Mathematics, Technological University of Mixteca, Mexico, November 22-23, 2022.

WORKSHOP/FDP ATTENDED

- **Dr. Divya Chaturvedi**, Attended and Qualified SWAYAM NPTEL FDP Course “Introduction to Methods of Applied Mathematics” with Elite Certificate, July - Oct, 2022.
- **Dr. Atul Kumar Ray**, Attended and Qualified SWAYAM NPTEL FDP Course “Introduction to Methods of Applied Mathematics” with Elite Certificate, July - Oct, 2022.
- **Dr. Jitendra Kumar, Dr. S. K.Bharadwaj & Dr. D. K. Mishra**: One Day Training Workshop on **Sympy: A Python Library for Symbolic Mathematics**, held on 22 Dec. 2022, organized by Mathtech Thinking Foundation (MTTF), India.

WEBINAR/WORKSHOP/ACTIVITY ORGANIZED

- i) **Dr. Atul Kumar Ray and Dr. Divya Chaturvedi**, “Presentation and Speech Competition on Contribution of Ramanujan in Mathematics” under the banner of Analytic Club, 22nd December, 2022.

EXTRA ACHIEVEMENTS

- (i) **Dr. Atul Kumar Ray, Dr. Divya Chaturvedi, Dr. Minakshi**, PC Member and Reviewer of Papers in "4th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology", November 19-20, 2022.
- (ii) **Dr. Vikas Shinde**, Expert Talk at Amity University, Gwalior, December 22, 2022.
- (iii) **Dr. Atul Kumar Ray**, Topic Editor of Journal “Frontiers in Applied Mathematics and Statistics” in Research Topic “Blood Flow with Metallic Nanoparticles through Stenosed Artery and Heat Transfer in Living Biological Tissues”.

https://www.frontiersin.org/research-topics/50921/blood-flow-with-metallic-nanoparticles-through-stenosed-artery-and-heat-transfer-in-living-biologica?utm_source=F-RTM&utm_medium=TED1&utm_campaign=PRD_TED1_T1_RT-TITLE

PARTICIPATION OF STUDENTS IN DIFFERENT EVENTS

Name	Enrolment Number	Semester	Name of the Event
Anuj rathor	0901mc211013	3rd	Msme idea hackathon 2.0
Divyanshi Nagpal	0901MC211027	3rd	Udbhav international level dance competition
			Nodel basketball event 1st position
			Psychic
Parth Dhingra	0901MC201046	5th	Wit- Seize by ISTE
Harsh singh	0901MC201028	5th	Rgpv nodal state level tournament (football)
Satanand Sharma	0901MC201056	5th	Web-X Internship Programme
Asmita Pathak	0901mc211018	3rd	Talaash- treasure hunt
			Jigyasa-gk quiz
			Cyber security and ethical hacking workshop and exam

Certificate of Participation is given in below link:

https://drive.google.com/drive/folders/1tva2sx1bvBAAFCrWOI8l6W9dst9x2tNQ7pE_1YQvd8VBz3LUudS_kkllFtelvdoP3b-IxUri?usp=sharing

4th

International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSIS CET - 2022)



ORGANIZED BY
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA
 माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत
 A GOVT. AIDED UGC AUTONOMOUS & NAAC ACCREDITED INSTITUTE, AFFILIATED TO R.G.P.V. BHOPAL (M.P.), INDIA
 Technically Sponsored By: Soft Computing Research Society
19-20 November, 2022



CERTIFICATE OF APPRECIATION

Ref. No.: ICSIS CET - 2022/42

We appreciate the support and cooperation of
Divya Chaturvedi
 as a
PC Member & Reviewer
 in the 4th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology held in Hybrid mode during November 19-20, 2022

2022

ICSIS CET

4th

P. Jayswal
 Dr. Pratesh Jayaswal
 Organizing Chair, ICSIS CET - 2022

J. Bansal
 Dr. Jagdish Chand Bansal
 General Secretary, SCRS

M. Pandit
 Dr. Manjaree Pandit
 General Chair, ICSIS CET - 2022

4th

International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSIS CET - 2022)



ORGANIZED BY
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19-20 November, 2022



CERTIFICATE OF APPRECIATION

Ref. No.: ICSIS CET - 2022/19

We appreciate the support and cooperation of
Atul Kumar Ray
 as a
PC Member & Reviewer
 in the 4th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology held in Hybrid mode during November 19-20, 2022

2022

ICSIS CET

4th

P. Jayswal
 Dr. Pratesh Jayaswal
 Organizing Chair, ICSIS CET - 2022

J. Bansal
 Dr. Jagdish Chand Bansal
 General Secretary, SCRS

M. Pandit
 Dr. Manjaree Pandit
 General Chair, ICSIS CET - 2022

4th

International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSIS CET - 2022)



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CERTIFICATE OF APPRECIATION

Ref. No.: ICSIS CET - 2022/44

We appreciate the support and cooperation of
Minakshi Poonia
 as a
PC Member & Reviewer
 in the 4th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology held in Hybrid mode during November 19-20, 2022

2022

ICSIS CET

4th

P. Jayswal
 Dr. Pratesh Jayaswal
 Organizing Chair, ICSIS CET - 2022

J. Bansal
 Dr. Jagdish Chand Bansal
 General Secretary, SCRS

M. Pandit
 Dr. Manjaree Pandit
 General Chair, ICSIS CET - 2022

GREENWOOD PUBLIC SCHOOL
17th UDBHAV UTSAV-2022
 (AN INTERNATIONAL DANCE & MUSIC FESTIVAL)

CERTIFICATE OF HONOUR

This is to certify that
 Mr. / Ms. *Divyanshi Nagpal* of
Madhav Institute of Technology and Science, Gwalior Participated in
 International Dance & Music Festival "17th Udbhav Utsav 2022" Organised by
Udbhav Sports and Cultural Association, Gwalior, India
 He / She secured **First** Prize in *Semi-classical open*
 Group Dance / Solo / Instrumental Group Competition.
We wish you a Bright and Prosperous Future.

Dr. Keshav Pandey
 President

Smt. Kiran Bhadoria
 Chairperson

Deepak Tomar
 Secretary

29th October - 2nd November 2022

PARTNER COUNTRY: TAIWAN
 IN ASSOCIATION WITH: JIWAJI UNIVERSITY GWALIOR, SREE KRISHNA HOSPITALS GWALIOR

CERTIPORT
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 August 22, 2022

Asmita Pathak
 MAMA KA BAZAR, BHONSLE KA BADA, MADHAVGANJ LASKHAR GWL
 GWALIOR MADHYA PRADESH 474001
 pathakasmita.ash@gmail.com

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2nd October – Gandhi Jayanti



**SRINIVASA
RAMANUJAN**

On the occasion of
NATIONAL MATHEMATICS DAY
**DEPARTMENT OF ENGINEERING
MATHEMATICS AND COMPUTING**
Organizes
**Presentation and Speech
Competition**

Cash prize to the winners and e-certificate to all the participants

Topic: Contribution of Srinivasa Ramanujan in Mathematics

Date: 22 December, 2022
Time: 2 pm
Venue: Seminar Hall 9

Contact:
Faculty Coordinator-
Dr. Atul Ray (70545 57977)
Dr. Divya Chaturvedi
(86025 65012)

Student Coordinator-
Khushi Kansana
(6260 704 428)

Scan qr code to register-

22nd December –National Mathematics Day





Induction Programs and Competitions conducted by the Department



DEPARTMENTAL/INSTITUTIONAL SOCIAL MEDIA ACCOUNTS



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

Link: <https://youtube.com/channel/UCB4Z-cETRTnADvi-nXwwCXg>



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. J. K. Muthele and Dr. Atul Kumar Ray

Student Members: Shaishav Jolly Saxena, Muskan Rathore