

ACTIVITIES AND ACHIEVEMENTS OF DEPARTMENT OF MATHEMATICS

SESSION: 2022-2023

1. Two girl students of Department of Mathematics, **Akshita and Saloni Sharma (B.Sc – I)** have participated in “**Summer School for Women in Mathematics and Statistics-2023**” organized by **International Centre for Theoretical Sciences, Tata Institute of Fundamental Research, Bangaluru, May 29 – June 09, 2023.**
2. A three – day workshop, “**Pedagogy of Basic Real Analysis and Its Applications**” was organized by Department of Mathematics on dated **March, 02 – 04, 2023.**
No. of Participants: **73 (10 from other institutes)**
Recourse Persons: 1. **Prof. Arun Paul Singh, University of Delhi**
2. **Dr Monika Singh, Associate Prof. University of Delhi.**
3. Department of Mathematics, Centre of Excellence Govt. College Sanjauli, Shimla-6, has received a grant of **Rs 100000 from National Board of Mathematics, Letter No. 02012/13/2023/NBHM/LG/R&D-II/4392 dated March 31, 2023.** In 2019 **Rs 77000** was received and the department had used this amount to buy quality books on Mathematics.
4. Department had received **Rs 1000000 (approx.)** under **Star College Scheme** to buy computer systems and to set up a computer Lab equipped with **MATLAB** and other softwares.

5. **Mathematics Students Society** was formed on 20 August, 2022.

Office bearers of Mathematics Students Society are:

Patron: Dr C.B.Mehta (Principal of the College)

President: Dr Anjana Sharma

Teacher Member: Dr Poonam Sharma

Vice – President: Mr Harit Shrama (B.Sc. III year)

Gen.- Secretary: Miss Chahat Sharma (B.Sc. –II year)

6. Two students **Neha (B.Sc – I year) and Chahat (B.Sc – II year)** presented their papers in **National seminar** held at Govt. College Nadaun on 21 Dec. 2022.

7. In this year our six students (Lakhan, Nikhil, Bhakti Prakash, Harit Sharma Ankita etc) have cracked HPU, M.Sc entrance examination. Result of many students is awaited.

8. **Dr Anjana Sharma**, Assistant Professor, Department of Mathematics, Centre of Excellence, Govt. College Sanjauli, Shimla-6 has published a research paper entitled, "**Determinant and eigenvalue inequalities involving nonnegative matrices**" in a reputed journal **Advances in Operator Theory**, <https://doi.org/10.1007/s43036-023-00283-9> published online: 08 July, 2023.

9. Dr Anjana had participated in three – week Programme on **Advanced Linear Algebra**, organized by **National Centre for Mathematics (A joint centre of TIFR & IIT Bombay)**, Advanced

training in Mathematical Schools at Indian Statistical Institute, Bangalore., May 9 – 28, 2022.

10. **Mathematics Day** is celebrated on 22nd Dec. 2022. On this day students give their power point presentations and a small documentary, **Story of Mathematics** is also shown.

11. **Dr Girish Kapoor, Assistant Professor, Department of Mathematics, COE, Govt. College Sanjauli,**
 - I. Presented his research papers entitled, “A Newton Cotes type rule for Numerical Integration” in the International conference on Recent Trends in Mathematical Sciences (ICRTMS-2022) organized by Himachal Ganita Parishad, on 27 – 28, Dec. 2022.
 - II. Presented a research paper entitled, “Matrices in Computer Graphics” in the National Seminar on Applications of Mathematics in daily life organized by Sidharth Govt. Utkrisht College Nadaun, on 21st, Dec. 2022.
 - III. Presented a research paper entitled, “A Refinement of Trapezoidal Rule” in the International Conference on Recent Advances in Mathematical Sciences(ICRAMS-2023) organized by Department of Mathematics & Statistics, H.P.U. Summer Hill Shimla-5, on 29 – 30 March, 2023.

12. **Dr Anjana Sharma, Assistant Professor, Department of Mathematics, COE, Govt. College Sanjauli, Shimla-6**
 - I. Presented a research paper entitled, “On Some Inequalities Involving Eigenvalues of Matrices” in the International