

Centre for Research

MAITREYI COLLEGE

UNIVERSITY OF DELHI

Chanakyapuri, New Delhi-110021

Summer Internship Programme 2023-24

Centre for Research (CFR), Maitreyi College supports multidisciplinary research wherein the faculties exhibit their research competence and train a large pool of inquisitive young minds to develop research acumen. The year 2023-24 was another productive year for the Summer Internship Programme (SIP) of CFR.

A total of 27 projects were successfully completed under SIP, during the summer break of June-August, 2024. Out of 27 projects, 09 were from science departments, 02 from the Mathematics department, 15 from social sciences and humanities departments, and 1 interdisciplinary project. A total of 37 faculty members and 84 students were involved in conducting research work across various areas. The submitted project reports were sent to the external experts for unbiased review and suggestions. The students and their mentors received certificates. They got an opportunity to present their research work in the Annual International Conference of Maitreyi College, Equinox 2024. Many of the presenters won prizes in oral and poster presentations. The external speakers and distinguished guests appreciated the hard work and efforts of students and their mentors. These kinds of programs boost the confidence of students and propel them to pursue research in future.

Projects carried out under SIP 2023-24

Code	Department	Title of the Project	Mentor/s	Mentees
SIP23-24/01	Botany	Breakthrough in the in-Silico Screening of Natural Compounds against Methicillin-Resistant Staphylococcus aureus	Dr. Vandana & Dr. Akash Pratap Singh	1. Ellapu.Hema Roshini, B.Sc.(H) Botany I Year 2. Aparajita Sarangi, B.Sc.(H) Botany I Year 3. Kumari Anju, B.Sc. Life Science I Year 4. Khushi Walia, B.Sc. Life Science I Year
SIP23-24/02	Botany	Optimising the greenhouse facility for soilless cultivation of plants using hydroponics and aeroponics	Dr Atika Chandra & Dr Kamal Sharma	1. Yashika Singhroha, Bsc (Prog) Life Science III Year 2. Astha Anand, BSc (Prog) Life Science III Year

				<p>3. Muskan, BSc (Prog) Life Science III Year</p> <p>4. Anjali, BSc (Prog) Life Science III Year</p> <p>5. Disha, BSc (Hons) Chemistry II Year</p> <p>6. Nikhita, BSc (Hons) Botany II Year</p> <p>7. Soumya, BSc (Hons) Botany II Year</p>
SIP23-24/03	Chemistry	Green Synthesis of Silver and Copper Nanocomposites using Ocimum tenuiflorum Extract and their effect on Purification of Textile Waste Water	Dr. Gita Batra Narula & Dr. Durgesh Kumar	<p>1.Nourein Shailesh, B.Sc. (P) Life Science I Year</p> <p>2. Bhavya Pahwa, B.Sc. (P) Life Science I Year</p> <p>3. Pallavi Singh B.Sc. (H) Chemistry II Year</p> <p>4. Shreya Makkar B.Sc. (H) Chemistry II Year</p>
SIP23-24/04	Commerce	Defence Sector and India's Quest Towards Self-Reliance : A Study on Make In India and Atmanirbhar Bharat Initiatives	Ms. Reena	<p>1.Bhavika Gumber B. Com III year,</p> <p>2.Maitreyee Chauhan B. Com III year, Rhea Bhardwaj B. Com III year</p>
SIP23-24/05	Computer Science	3M's – Meta-Analysis of Human Genomics, Metagenomics and Metabolomics for predicting Human Diseases and improving the Healthcare Systems	Dr. Veena Ghuriani & Dr. Jyotsna Talreja Wassan	<p>1. Priyal Tripathi, B.Sc Life Sciences II Year</p> <p>2. Anshika Chauhan, B.Sc Life Sciences II Year</p>
SIP23-24/06	Computer Science	AI based Recommender Systems are shaping the Consumer Behavior: A case study of Indian Youth	Dr Veena Ghuriani	<p>1. Ritika Kumar, B.Sc. Mathematics(H) II year</p> <p>2. Aayati Aggarwal, B.A. Economics(H) II year</p>
SIP23-24/07	Economics	Modern Applications of Traditional Indian Storage Practices for India's Self-Reliance	Ms. Aastha Arora & Ms. Shubhra Suman	<p>1. Ananya Singh, B.A.(Hons) Economics II Year</p> <p>2. Siddhi Deep, B.A.(Hons) Economics II Year</p> <p>3. Suhani Bharadwaj B.A.(Hons) Economics II Year</p> <p>4.Priyanshi Gautam B.A.(P) Economics II Year</p>

SIP23-24/08	English	Social Reform and the Bhakti Tradition in Medieval Assam: Reading the 'Borgeet' of Srimanta Sankardeva	Ms Ruchi Sharma	1.Disha Hatikakoty, B.A. (Hons) English III Year
SIP23-24/09	English	Gender, Selfhood and Agency in the Bhajans of Mirabai	Ms Ruchi Sharma	1.Saloni Sharma, BA (Hons) English III year
SIP23-24/10	English	Invisible Female Labour: Re(locating) Working Women in Hindi Cinema	Ms Manisha Saluja	1. Harshita Bagga, B.A. (Hons) English II year
SIP23-24/11	English	Representations of Disability, Relationships, and Sexuality in Literature and Cinema: Challenging Stereotypes and Advocating for Inclusivity	Dr. Smriti Singh	1. Angela Sareen, B.A. (Hons) English II year
SIP23-24/12	English	Ethical Contemplations in Indian Science Fiction: The Case of Gene Editing	Ms. Manisha Saluja	1. Khushi, BA (Hons) English III Year
SIP23-24/13	English	Re-visiting 'Dharma': A Study of the Ancient Indian Concept and its Modern Relevance	Ms. Nupur Chawla	1. Ashima Khaneja, BA (Hons.) English II year 2. Pratibha Soni, BA (Hons.) English II year 3. Kalpi Devrani, BA (Hons.) English I year
SIP23-24/14	Hindi	भारतीय भाषाओं के संदर्भ में अंग्रेजी को लेकर युवा वर्ग का दृष्टिकोण	Dr Anita Devi, Mr Ankit Kumar Rai	1.Adithya Prabhakaran Hindi (H) III year, 2.Pratima Maurya Hindi (H) III year, 3.Sakshi Mishra BA Prog. I year, 4.Saniha Kiran BA Prog. I year
SIP23-24/15	History	Knowledge System of Terracotta Art of Ambaran, Jammu	Dr. Mukta Raut Dey	1. Scientia Karlupia, B.A.(P) Political science + History, I year 2. Nafisha Khatoon, B.A.(Hons.) History, I year
SIP23-24/16	Mathematics	Integrating Ancient Indian Mathematical Techniques into Modern Computer Science Algorithms	Dr. Varsha Chauhan & Mr. Monu Kumar	1. Mahak Mishra, B.Sc (Prog.) Physical science with Chemistry, III Year 2. Munjal Sharma, B.Sc (Prog.) Physical science with Computer Science, III Year 3. Sneha Srivastava, B.Sc (Prog.) Physical

				science with Computer Science, III Year 4. Yogita Sharma, B.Sc (Prog.) Physical Science with Informatics Practices, III Year
SIP23-24/17	Mathematics	Towards Self Reliant India: Decoding Indian Startups through Statistical Insights	Dr. Geetan Manchanda & Dr. Simran Kaur	1. Neha Budhani, B.Sc.(Hons) Mathematics, II year 2. Rajan Kaur, B.Sc.(Hons) Mathematics, III year 3. Anushka, B.Sc.(Hons) Mathematics, I year 4. Bhavika Gupta, B.Sc. (Hons) Mathematics, I year
SIP23-24/18	Physics	Empowering Individuals through Piezoelectric Energy Harvesting: Building Self-Reliance, One Step at a Time	Dr. Prajwalit Shikha & Dr Ritu Dhingra	1. Kashish Mishra, B.Sc.(H) Physics III year 2. Saniya, B.Sc.(H) Physics III year 3. Ananya Matta, B.Sc. Physics (Hons.) IYear 4. Yashi kardam, B. Sc.(Hons.) Physics II year
SIP23-24/19	Physics	“Optimization of Polyaniline (PANI) Thin Films for Improved Electrochromic Properties	Dr Mansi Dhingra & Dr Parul Yadav	1. Karina, B.Sc. (Hons) Physics, III Year 2. Neelakshi Lakra, B.Sc. (Hons) Physics, III Year 3. Aliya, B.Sc. (Hons) Physics, III Year 4. Anjali, B.Sc. (Hons) Physics, IIIYear
SIP23-24/20	Punjabi	PUNJABI CINEMA: KAL TE AJH DI FILMA VICHKAR TULNA	Dr Harmeet Kaur, Dr Sarika Sharma	1. Bhumika Kamboj B.A (Prog)2nd yr ; 2. Diksha Sharma, B.A (Prog)3rd yr; 3. Harsimrat Kaur, B.A (Prog)2nd yr; 4. Shalvi, B.A (Prog)2nd yr., B.A (Prog)3rd yr
SIP23-24/21	Sanskrit	संस्कृत वाङ्मय में नारी : एक अवलोकन	Dr. Hemlata Rani, Dr.	1. Janhvi Maddhesiya, B.A (H) Sanskrit I year

			Pramod Kumar Singh	2. Ameesha kumari, BA (H) Sanskrit, I year 3. Hani Sriwastava, BA (H) Sanskrit, I year 4. Daya Gaur, BA (H) Sanskrit, II year
SIP23-24/22	Sociology	Exploring the traditional attire of the Boro Tribe as part of indigenous knowledge system, symbolic expression of identity and means to self-reliance	Dr. Aruna Grover	1. Loysree Daimari, B.A. (Hons) Sociology II Year 2. Kritima Boro II, B.A. (Hons) Political Science I Year
SIP23-24/23	Sociology	Embeddedness in Social and Economic Relationships: A Comparative Study of Rural and Urban Weekly Markets	Dr. Neeraj Kumar	1. Sadhvi Singh, B.A. (H) Sociology, III Year 2. Bhaswati Medhi, B.A. (H) Sociology III Year
SIP23-24/24	Sociology	A Sociological Study of Mahabharat and Women in Society	Mr. Pawan S. Harsana	1. Himadri Prasad, B.A (Hons) Sociology II Year 2. Taanisi Soni, B.A (Hons) Sociology II Year
SIP23-24/25	Zoology	To explore the abundance of soil nematodes in the Maitreyi College Campus	Dr. Shilpa Bharti & Dr. Jaspreet Kaur	1. Shreyanshee Vaidya, B.Sc. (H) Zoology II Year 2. Manya Sharma, B.Sc. (H) Zoology, II Year 3. Medhavi, B.Sc. (H) Zoology, III Year 4. Nandini Bhattacharya, B.Sc. (H) Zoology, III Year 5. Shivani, B.Sc. Life Sciences II Year
SIP23-24/26	Zoology	Assessment of Insect diversity in Maitreyi College Campus, University of Delhi, New Delhi	Dr. Jaspreet Kaur & Dr. Mamta Pandey	1. Shreyanshee Vaidya, B.Sc. (Hons) Zoology II Year 2. Kriti Nayak, B.Sc. (Hons) Zoology II Year 3. Ridhi, B.Sc. Life Sciences II Year 4. Ananya Gautam, B.Sc. Life Sciences II Year 5. Ishika Sharma, B.Sc. Life Sciences II Year

				6. Payal Yadav, B.Sc. Life Sciences II Year
SIP23- 24/27	Mathematics & Sanskrit	Symphony of Shapes: The Mathematical Mystique of Vedic Constructions	Dr. Neelima Ohri & Dr. Pramod Kumar Singh	1. Charu- B.Sc.(H) Mathematics, I Year 2. Deep Shikha, B.Sc (H) Mathematics, I Year 3. Dimple Budaniya, B.A. (Prog) (with Economics and Mathematics), I Year 4. Taniya Singh Gehlot, B.A. (H) Economics, I