

Centre for Research
Maitreyi College, University of Delhi

SUMMER INTERNSHIP PROGRAMME, 2021-22

As part of SIP 2021-22, 22 projects were carried out from May 25, 2022 to July 25, 2022. A total of 35 faculty members and 87 students were involved in these projects. The theme for SIP 2021-22 was 'The expanding frontiers of knowledge'. External experts from different Universities such as Christ University, Bangalore, University of Delhi, University of Lucknow etc. evaluated all the project reports. Based on the evaluation, selected projects were presented, in parallel sessions, on 28th September, 2022 in Avlokan before external jury members from Jawaharlal Nehru University, and University of Delhi.

Projects carried out under SIP 2021-22

S. No.	Code	Title of Project	Department	Mentor/s	Mentees
1	SIP21-22/01	Efficacy of Seed Priming Technology on Promotion of Seed Germination and Plant Growth Under Abiotic Stress in <i>Vigna radiata</i> and <i>Oryza sativa</i>	Botany	Dr. Rama Sisodia, Dr. Shweta Sharma	Vedanti Garg, Ishani Mallick, Sonia Chauhan, Naiya Chauhan B. Sc. (P) Life Science II year,
2	SIP21-22/02	Qualitative and quantitative analysis of plant pigment anthocyanins from selected flowering plants and their stabilization using organic molecules	Botany	Dr. Monika Heikrujam, Dr. Mansi Gogna, Dr. Rama Sisodia	Kaveri Choudhary, Riya Uniyal Yaiveinai Ngade, Kajal Senger, B.Sc. Life Science II year
3	SIP21-22/27	Fabricated natural hydrogels and their potential for agricultural applications	Chemistry, Botany	Dr. Kiran Soni, Dr. Swarndeep Kaur Sethi, Dr. Gita Batra Narula, Dr. Pooja Baweja	Nancy Ghai, Anita Kumari, Kanishka, Isha Bedwal, Prachi, Uma Rani, B.Sc. (H) Chemistry II year

4	SIP21 -22/03	Exploring the role of structurally engineered nano-sized sustainable materials for remediation of contaminated water samples"	Chemistry	Dr. Swarndeeep Kaur Sethi, Dr. Gita Batra Narula, Dr. Kiran Soni	Manu Gahlot, Tanushka, B. Sc. (H) Botany I year Bagmita Biswas, Gitika Sharma, Isha Chopra, Pragya Narain, Priyanka, Taniya kaushik, B.Sc. Life Science III year
5	SIP21 -22/04	Influencer Marketing: an effective marketing tool for the Indian GenZ market	Commerce	Ms. Kritika Khurana, Dr. Jyotsna	Priyamvada Rajpal, Aakanksha Agarwal, Radhikka Bajpai, Pranjal Sihag B.A. (H) Economics I year
6	SIP21 -22/05	Sentiment Analysis Of Indian Tweets During Covid-19	Computer Science	Dr. Manju Bhardwaj, Dr. Shikha Badhani	Priya Mishra, Maulika Sharma B. Sc. Physical Science (Computer Science) II year
7	SIP21 -22/06	Credibility Analysis of Information on Social Media Platforms using Machine Learning	Computer Science	Dr. Veena Ghuriani	Ms. Shivangi Bhatia, Ms. Shruti Khurana, B.A. (Prog.) III year
8	SIP21 -22/07	Trend of Online Degree Courses in India: Challenges, Issues and Opportunities	Computer Science	Ms. Rupali Ahuja	Devika Ahlawat, Janhavi Khandelwal, Lavanya Bhat B.A. (Prog.) (Computer Applications + Economics) I year
9	SIP21 -22/08	Cybercrime in India: An Analysis of Crime against Women in ever Expanding Digital Space	Computer Science	Ms. Rupali Ahuja, Dr. Shweta Sankhwar	Tanya Choubey, Priyanshi, Tanusha Jain, Muskan Verma B.Sc. Physical Science (Computer Science) III year
10	SIP21 -22/09	Analysis of Toxic Social Media Text using Deep Learning Techniques	Computer Science	Dr. Shweta Sankhwar, Ms. Tripti Agarwal	Tanya Chaudhary, Shruti Sharma B.Sc. Physical Science (Computer Science) III year

					Ruchika, Aaditri Saraswat, B.Sc. Physical Science (Computer Science) I year
11	SIP21-22/10	Impact Of Artificial Intelligence On The Indian Economy And A Case Study Of China	Economics	Dr. Saroj Rani	Aarushi Shankar, Riju Garg, B.A. (H) Economics II year
12	SIP21-22/14	Blockchain in Research	Mathematics	Ms. Rajni Gupta, Dr. Khushboo Bussi	Srishti Uniyal, Kritika Kanojia, Sakshi Punia, Saloni Tiwari B.Sc. (H) Mathematics II year
13	SIP21-22/15	An Analysis with Mathematical Approach - Major reasons behind the Crisis of Yes Bank from the Indian Stock Market	Mathematics	Ms. Nikita Mittal, Ms. Monika Meena	Antra Sharma, Ananya Paliwal, B.A. (H) Economics II year
14	SIP21-22/16	Optimization of Solar Power for Automatic Control using Sensors	Physics	Dr. Parul Yadav, Dr. Mansi Dhingra, Dr. Neha Gupta	Viashali Bagauli, Simrat Kaur, Bhawna, Ria Goel B.Sc. (Hons) Physics II year Anshita Sharma, Jeau Mishra B.Sc. (H) Physics I year
15	SIP21-22/17	Battery Capacity: Measurement and Analysis	Physics	Dr. Ritu Dhingra, Dr. Prajwalit Shikha	Aastha Agarwal, Urvashi Sangrola, Preeti, Pranshi Mathur, B.Sc. (H) Physics II Year
16	SIP21-22/18	To design and build a portable Gaussmeter	Physics	Dr. Apoorva Verma, Dr. Ritu Dhingra	Amanjot, Shiva Raj, Soumya Bajpai, Ananya Course, B.Sc. Physics (H) I year
17	SIP21-22/19	Electromagnetics of SERS Tailored with SPR using Anisotropic Nanoparticle System near	Physics	Dr. Neelam Singh	Dhruvi Agrawal, Mansi Tewatia, B.Sc. (H) Physics II year

		a cancer molecule: A First Principle Account			
18	SIP21 -22/20	Quantum computing: Principles, Applications and Developing of Quantum Tools	Physics	Dr. Parul Yadav, Dr. Shalini lumb Talwar, Dr. Mansi Dhingra	Sharanya Renjit, Vaishali Sharma, Purnima Wadhwa Sweta Singh, Monika Suthar, Rishika Mittal B.Sc. (H) Physics II year
19	SIP21 -22/21	Growth and Characterization of Piezoelectric Single Crystals and Study of its Electrical Properties	Physics	Dr. Prajwalit Shikha, Dr. Sumit	Avnika Tyagi, Bhawna Verma, Kirti Bhagia, Megha Bhardwaj, Shreya Chaturvedi, Nimisha Sagar B.Sc. (H) Physics II year
20	SIP21 -22/22	Study the impact of the Polycystic Ovarian Syndrome (PCOS) on quality of life of affected women in India	Sociology	Dr. Aruna Grover	Ria Rao, Kunika Tyagi, B.A. (H) Sociology II year
21	SIP21 -22/24	Consistent occurrence of loss of hair due to SARS-CoV-2 infection and after vaccination	Zoology	Dr. Luni, Dr. Tejendra Kumar	Ayushi Wadhwa, Gayatri Pani, Ms. Vanshika Attrish, Ms. Tisha Aggarwal, B.Sc. (Prog.) Life Sciences II year
22	SIP21 -22/25	Exploring knowledge, attitude and practice of contraception among women: A novel approach towards attaining reproductive health	Zoology	Dr. Meena Yadav, Dr. Brototi Roy	Pallavi Pandey, Purva Aggarwal, Anshu Rana, Shruti Kaushik, B.Sc. (H) Zoology, III year
Total		22		35	87

Alhopia

Prof. Haritma Chopra
Coordinator