

Centre for Research

Maitreyi College, University of Delhi

SUMMER INTERNSHIP PROGRAMME, 2018-19

Since its inception in the year 2019 under the aegis of Maitreyi Research and Incubation Centre, giant strides have been taken by the Centre for Research to achieve its objective of promoting a research friendly environment in the college and to provide opportunities to students and faculty to delve into research questions.

A **workshop on “Formulating Project Proposals”** was held in April, 2019 which was attended by both students and faculty of our college. Elaborate discussions were held to highlight the salient features of good proposal writing and queries were addressed. Under the **Summer Internship Program of Centre for Research (May-Jul, 2019)**, **23 research Projects** were carried out, **16 from sciences and 7 from, social sciences and humanities. 49 Faculty members and 95 students** were involved in the 2 month long Summer Internship Program. The project proposals were screened by external experts and, after their completion were evaluated by a panel of external jury members. The first prize in the Humanities and Social Science section was awarded to the Project **“Women and Desire: Exploring Female Sexuality”**. In Sciences the project entitled **“Identifying pollution scavenging potential in perennials growing in Maitreyi College campus”** was judged best and was much appreciated for its extensive study. The students also presented their Summer Internship Project work in different national and international conferences. One of the Summer Internship Project

carried out under Summer Internship Program 2018 was also **published in a peer reviewed International Journal** setting an excellent precedence.

On the day of presentations, the parents of the students who were presenting their work were invited. Many parents took out time from their busy schedule and attended the event. The parents really appreciated the efforts of the college.

Glimpse of the Presentations of the Summer Internship Projects, 2019







The Centre for Research also funded **one-day Education trips** for all the Departments during the academic session 2019-20. Students and Faculty members took this unique opportunity to explore places of scientific, economic, social and historical interest. Zoology Department visited the Asola Bhati Wildlife Sanctuary, Botany Department visited Aravali Biodiversity park, Commerce Department organized a trip to Yakult Factory whereas Chemistry Department organized a one-day trip to National Physical Laboratory to name a few. It was an excellent learning opportunity for the students and enhanced their practical knowledge.

Projects carried out under Summer Internship Programme, 2018-19

S.No.	Department	Name of Projects	Mentors	Students
I.	Botany	1. Study the vegetation and create an e-flora of Maitreyi College, including mapping of trees inside the college campus and listing down medicinal properties of college vegetation.	Ms. Divya Singh	Simran Sharma, Niyati (LS I yr)
		2. Identifying pollution scavenging potential in perennials growing in Maitreyi College campus.	Dr Pooja Baweja and Dr Ankita Sehrawat	Madhurima Pal; Vaishnavi Dahiya, Nisha Poddar; Sakshi Suman
		3. Enhancing therapeutic efficacy of selected medicinal plants for improved antioxidant potential using chemical and biological adjuvants.	Dr Rama Sisodia and Dr Shweta Sharma	Joshna Bhatia; Varnika Kaushik; Ashika Chourasia; Renu Meena; Gargi Nandi; Shweta Waikhom (LS 2 nd yr)
II.	Chemistry	4. An Innovative approach to Soil Fertility Management for soil samples collected from Delhi – NCR region.	Dr Ramesh Kumari and Dr Lata Chandra	Mahima Singhal; Ritu Borwal; Monika; Taru Verma; Komal
		5. Green Synthesis of Copper Nanoparticles using plant Extract for purification of water effluent from Laboratories and textile industries.”	Dr. Kiran Soni and Dr. Gita Batra Narula	Shivani Dagar, Kirti Kumari, Ishika Shah, Kiran Pal. (BSc(H) chemistry II year)
		6. Eco-friendly magnetic biopolymer nanocomposites for removal of heavy metals from waste water.	Dr. Rajni Johar, Dr Ritu Gaba, Dr. Ankita Chowdhury, Dr. Hema Bhandari, Dr. Gazala Ruhi	Arushi Rawat , Simran Kapoor, Tanisha Singh , Vani Sharma, Yamini Chadha (Chemistry Hons)
III.	Commerce	7. How modern businesses use human psychology to market their offerings! (products and services).	MRS Kritika Khurana and Dr Madhu Jain	Bhargavi Hira And Kavya Dhankar

		8. Mutual Funds.	Kritika Khurana	VANDANA BADLANI; RUPALI SHARMA
IV.	Computers	9. Web Application for Feedback Collection and Analysis.	Dr. Veena Ghuriani and Mrs Rupali Ahuja	POOJA SHARMA AARTI KUMARI ANUSHKA BANSAL MANSHI YADAV
		10. Lexicon based sentiment analysis of text data	Dr. Manju Bhardwaj and Ms. Shikha Badhani	Shubhi Vashistha, Kamiya Singh, Monika Yadav, Vanshika Yadav (Physical Science, 3 rd yr); Saloni Garg (Maths 2 nd yr)
V.	Economics	11. "Does good governance and change in the ruling political party affect economic growth of a nation? - The case of India"	Mrs. Nidhi Chand and Mrs. Nupur Katariya	Anjali Kashyab, Arushi Sood, Dhairya Sharma, Nikita Arora, Shikha, Yogita Raj
VI.	English	12. Representing the LGBTQ Community: A Study of Indian and American Popular culture in the Last Decade.	Amrita Ajay	Manukriti and Maumil Mehraj
VII.	Hindi	13. युवा जगत पर बढ़ता सिनेमा का प्रभाव	Dr Meenu Kumari Dr Sneh Lata	Priya, Neha, Aparajita, Shubhra
IX.	Physics	14. Extraction of Oil from Waste Plastic. (Physics)	Dr. Ritu Dhingra	Ankita Das, Smile Gandhi, Laxmi Tiwari, Ridhi Singla
		15. Synthesis of Nanostructured Iron Oxide for Oil Adsorption from Water Bodies Surface.	Dr Mansi Dhingra and Dr Savvy Mishra	Vishakha Dwivedi, Komal, Anupriya, Sonam
		16. Numerical Simulations of Eigen States of Nano Structures using Scilab.	Ms. Parul Yadav and Savvy Mishra	Vani Tiwari, Kritika, Aditi Mudgal,

				Drishti Khatter and Komal Meena
		17. Influence of plant growth regulators and electromagnetic field on seed germination and overall development of nutritionally important plant species”.	Dr Poonam Juneja and Dr Sandeepa Singh	Preeti, Savita, Nishika (Phy Hons 2nd yr); Gauri Gupta, R. Shubhiksha, Jyoti (LS 2nd yr)
		18. Correlation of Electrical and Optical Behavior of Metal and Metal Oxide Nanostructures.	Parul Yadav and Mansi Dhingra	Divya Singh a , Sanehlata a , Saryu a , Sadaf a , Chetna
		19. Preparation and characterization of Hydroelectrical cell based on water dissociation.	Dr. Neelam Singh	Smridhi Chawla * , Bhumika Chawla
X.	Political Science	20. Polarization under populism in India: Political Parties and RWAs in post reforms in Delhi.	Dr. Kiran Pandey, Dr. Kanika Gupta and Ms. Nikita Audichya	Muskan Jain Pooja Sundaram Prerna Gaur Tanushka Saxena
XI.	Punjabi	21. Study of Traditional Punjabi Music, Instruments used and contexts of Performance compared to contemporary Punjabi Music.	Dr. Surinder Kaur Malhotra and Dr. Ranju Bala	Shagun Sharma and Anshika
XII.	Sociology	22. Women and Desire: Exploring Female Sexuality.	Dr Gopi D Tripathy and Pratisha Borborah	Rhea Wadhwa and Rhea Kad (Sociology Hons 2 nd yr)
XIII.	Zoology	23. Post harvest treatment for preserving antioxidant properties and total phenolic content of fruits and vegetables.	Dr. Brototi Roy and Dr. Jyoti Singh	Jaldhi, Shruti Mishra, Rashi Garg (Zoology Hons 2 nd yr)
		24. To study the effects of selected homeopathic medicines on mammalian blood.	Dr Meena Yadav	Mukta Yadav & Lavanya Ranjan (Zoology Hons 2 nd yr)
	Total	24	43	91