

Report of Centre for Research 2018-19

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1. Summer Internship Programme 2018-19

Under the aegis of Centre for Research (CFR) and Advisory Committee for Professional Grooming (ACPG), Summer Internship Program (SIP) 2018-19 was carried out (May-Jul, 2019). A total of 24 research projects were completed, 16 from sciences and 8 from social sciences and humanities. 43 faculty members and 91 students were involved in the two-month long Summer Internship Program.

The selected projects were screened by external experts and after their completion were evaluated by a panel of external jury members- Dr Suman Govil (Sr Advisor, DBT, Ministry of Science & Technology, Govt of India); Prof. Amarjeet Kaur (Department of Physics, University of Delhi); Dr Shanu Sharma (Amity University, Noida) and Prof. Balaganpathy Devarakonda (Dept. of Philosophy, Delhi University).

Projects carried out under SIP 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)
I.	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)
I.	Comme rce	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.	Compu ters	9. Web Application for Feedback Collection and Analysis.	Dr. Veena Ghuriani and Mrs Rupali Ahuja	POOJA SHARMA AARTI KUMARI ANUSHKA BANSAL MANSHI YADAV (PS 3rd yr)
		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.	Econo mics	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 (Phy 2nd yr)
		16. Numerical Simulations of Eigen States of Nano Structures using Scilab.	Dr. Parul Yadav and Dr Savvy Mishra	Vani Tiwari, Kritika, Aditi Mudgal, Drishti Khatter and Komal Meena (Phy 2nd yr)
		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.	Dr Parul Yadav and Dr Mansi Dhingra	Divya Singh , Sanehlata, Saryu, Sadaf Esrar , Chetna (Phy 3rd yr)
		19. Preparation and characterization of Hydroelectrical cell based on water dissociation.	Dr. Neelam Singh	Smridhi Chawla, Bhumika Chawla (Phy 3rd yr)
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)
XII I.	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

2. SIP Presentation Series

The student presentations were held in two sessions i.e. SIP presentation series I on 28th August, 2019 in which project numbers 7, 8, 11, 12, 13, 20, 21, and 22 were presented and the event was attended by 80 participants. The jury members were Prof. Balaganapathy Devarakonda and Ms. Rachna Sirohi (Department of English, Maitreyi College). The first prize in the SIP presentation series I was awarded to the Project “Women and Desire: Exploring Female Sexuality”.

SIP presentation series II was held on 11th September, 2019, in which project number 1,2,3,4,5,6,9,10,14,15,16,17,18,19,23 and 24 were presented. A total of 140 participants were present. . The Jury members were Dr. Suman Govil, Dr. Shanu Sharma and Dr. Pinkey Bajaj Gandhi. series II, 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 2018-19 was also published in a peer reviewed International Journal setting an excellent precedent.

On the day of the presentations, the parents of the students who were presenting their research 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. This was followed by a lunch organized for the Jury members and the invited parents.

Glimpse of the SIP presentation series 2018-19





**Centre for Research
MAITREYI COLLEGE
University of Delhi**

Presents

SUMMER INTERNSHIP PROJECTS, 2018-19

PART 1 – Humanities and Social Sciences

DATE: 28th August, 2019
TIME: 9.30 am
VENUE: Seminar Room

All are cordially invited

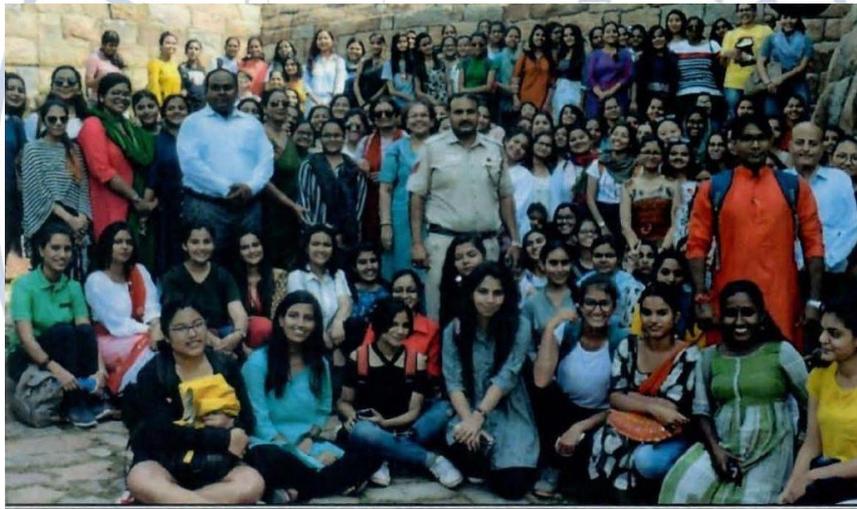
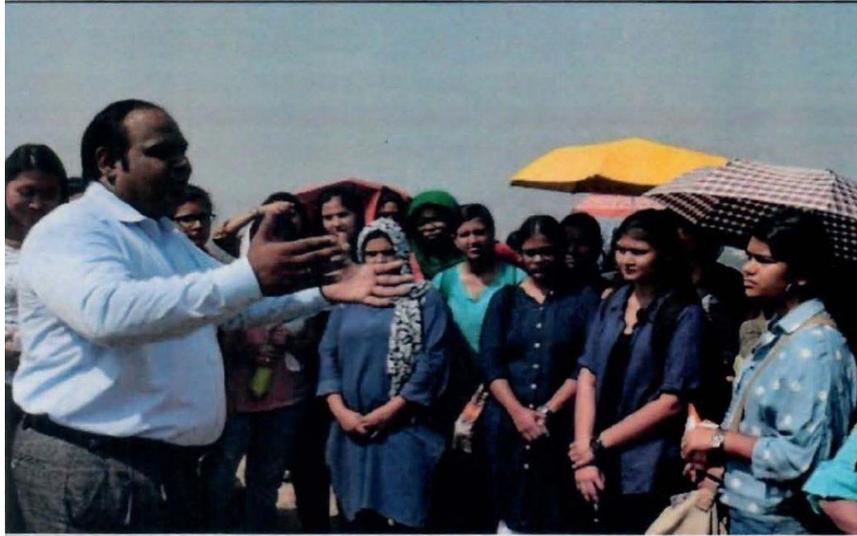
Convenor
CFR

Coordinator
CFR

3. Educational Trips

The Centre for Research also funded **one-day Educational trips** for the different Departments during the academic session 2018-19.

S. No.	Department	Date	Place	Number of participants
1	History	9th October 2018	Suraj Kund and Tughlaqabad Fort	170
2	BA (P)	9 th October, 2018	Qutub Complex and archaeological park	140
3	Political science	9 th October, 2018	President House, Trimurti museum and Gandhi House	100
4	Chemistry	10 th October, 2018	NTPC, Dadri	50
5	Computer Science	11 th October, 2018	Cluster Innovation Centre, Delhi University	40
6	BA (P)	11 th October, 2018	Kurushetra	132
7	BA(P)	11 th October, 2018	National museum	102
8	Sociology	12th October 2018	Murthal, Distt.Sonepat, Haryana	76
9	Economics	12 th October, 2018	International Trade Fair, NOIDA	49
10	Hindi and Punjabi	13th October 2018	Vallabh Jain Smarak, Delhi and Kurukshetra	153
11	Mathematics	13th October 2018	Akshardham' New Delhi	50
12	Sanskrit	13th October 2018	Hastinapur, U.P.	76
13	English	13 th October, 2018	National Art Gallery	95
14	Zoology	15 th October, 2018	NDRI, Karnal	89
15	Physics	24 th October, 2018	Panorama & science Centre and other places, Kurushetra	91



Surajkund and Tughlaqabad Fort



Cluster Innovation Centre, DU



Vallabh Jain Smarak, Delhi and Kurukshetra



College, University

Murthal, Haryana



Hastinapur



Akshardham, Delhi



National Dairy Research Institute, Karnal, Haryana

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