

ELITE (2019-2020)**ELITE– ‘Education in a Lively Innovative Training Environment’ Summer Fellowship:**

During the summer of 2019, 88 students of the College undertook projects of two-month duration under this scheme. Each student earned a fellowship of INR 1000/- per month with departments getting contingency grant for the projects.

S. No.	Title of the Project	Mentor/s	Students
1	Understanding the Phages: The Biology and the Relationship with their Host	Dr. Urmi Bajpai (Biomedical Sciences)	Garima Kalakoti B.Sc. Life Science-II year
2	Expression, Purification and Activity of Mycobacteriophage-derived AAA ATPase	Dr. Urmi Bajpai (Biomedical Sciences)	Mr. Ritam Das B.Sc. Life Science-II year
3	To Ascertain the Most Efficient Working Hours of the Faculty in Acharya Narendra Dev College (ANDC) within the Framework of 9 am to 4 pm	Dr. Sunita Jetly and Dr Archana Pandey (Biomedical Sciences)	Aatiruddin Khan, Alisha Ansari and Muskan Gupta B.Sc (H) Biomedical Sciences-II year
4	Computational Analysis of Natural Antagonists for Design of Antithyroid Drugs	Dr. Gagan Dhawan (Biomedical Sciences)	Ashwin Uday B.Sc (H) Biomedical Sciences-III year
5	Computational Analysis of An Inhibitor of Pyrimidine Synthesis Enzyme for Anti-Malarial Drug Therapy	Dr. Gagan Dhawan (Biomedical Sciences)	Arundhati Chaudhary B.Sc (H) Biomedical Sciences-III year
6	Green Synthesis, Characterization and Biological Evaluation of Metallic Nanoparticles A. MnO ₂ B. FeO C. MoO ₃ D. ZnO E. CuO F. NiO	Dr. Gagan Dhawan and Dr. Satendra Singh (Biomedical Sciences)	Rohini, K. Gautam, Muskan Jindal, Amit Sharma and Rhythem Kaushal B.Sc (H) Biomedical Sciences-III year Nahid, Dipesh Talukdar, Mamta Chhetri, Aastha, Shreya Roy, and Divya B.Sc. (H) Biomedical Sciences-II year
7	Functional Analysis & Characterization of Mycobacterial Genes	Dr Namita Singh	Prachi Khattar, Kanika Bhatia and Rohini Bhatt B.Sc. (H) Biomedical Science-III year

8	Surface Plasmon Resonance – A Tool to Detect Change in Refractive Index.	Dr Charu Khosla Gupta (Botany), Dr Archana Pandey (Biomedical Sciences) and Dr Arijit Chowdhuri (Physics)	Tamanna, Sudeepta Singh, Sansi Bansal and Sarang Saini B.Sc. (H) Biomedical Science-II year
9	Assessment of Plant Health by Estimation of Water Content, Ascorbic Acid and Chlorophylls	Dr Charu Khosla Gupta and Dr Yash Mangla (Botany)	Mansi Arora, Harshvardhan Gupta, Bhaskar Paul, Kumud Kaul B.Sc. (H) Biomedical Science-II year
10	Ambient Air Pollution by Estimation of Chlorophyll	Dr Charu Khosla Gupta (Botany) and Dr Arijit Chowdhuri (Physics)	Nitish Kalson and Heena Nizam B.Sc. Life Sciences-II year
11	Water Pollution – Estimation of Contamination in Local Environment.	Dr Charu Khosla Gupta (Botany) and Dr Arijit Chowdhuri (Physics)	Payal Singh and Ankita Negi B.Sc. Life Sciences-II year
12	Authentication of Controversial Medicinal Plants by Morphological, Chemical and Molecular Markers: A Review	Dr. Sumit Sahni, Dr. Vineet Kumar Singh and Dr. Manoj Kumar Singh (Botany)	Sakshi Gupta and Radhika Verma B.Sc. Life Sciences-I year
13	A Review of Lignin Degradation and its Bioconversion	Dr Manoj Kumar Singh and Dr. Sumit Sahni (Botany)	Chetna B.Sc. (H) Botany-III year Kalpana B.Sc. Life Sciences-III year
14	Modification of Grapheme Oxide using Polysaccharide for Water Purification	Dr. Sunita Hooda and Dr. Geetu Gambhir (Chemistry)	Manisha Gupta B.Sc. Life Sciences-III year
15	Effect of Sonication on Graphene Oxide (GO)	Dr. Sunita Hooda and Dr. Geetu Gambhir (Chemistry)	Sneha Mahar B.Sc. Life Sciences-III year
16	Improved Hummer's Method formulates Graphene Oxide Corollary of Temperature on	Dr. Sunita Hooda and Dr. Geetu Gambhir (Chemistry)	Narain Swami B.Sc. Life Sciences-II year

	Grapheme Oxide.		
17	Effect of Sonication on Graphite.	Dr. Sunita Hooda and Dr. Geetu Gambhir (Chemistry)	Maghna Singh B.Sc. Life Sciences-II year
18	To Extract the Colored Component of <i>Hibiscus rosa-sinensis</i> Flower and Study its Potency as a Ph Indicator	Dr. Pankaj Khanna, Dr. Neeti Misra and Dr. Kavita Mittal (Chemistry)	Kirti Chugh B.Sc. (H) Chemistry-III year Ramandeep B.Sc (H) Chemistry-I year Ishika Sagwal B.Sc Physical Sciences-I year
19	A. Detection of Adulterants in Milk from different sources B. Synthesis of Metal Complexes of Schiff Bases using Sonication	Dr. Neeti Misra, Dr. Pankaj Khanna and Dr. Kavita Mittal (Chemistry) Dr. Leena Khanna (USBAS, GGSIP University, Dwarka)	Harshita Madaan and Saatwik Suman B.Sc. (H) Chemistry-II year
20	Attendance Application: An Android App Development	Dr Harita Ahuja, Dr Preeti Marwaha and Dr Gunjan Rani (Computer Science)	Shivani Saxena and Priyanka B.Sc. Physical Sciences with Computer Sciences-II year Rishabh Jain B.Sc. Physical Sciences with Computer Sciences-III year
21	Creation of Online Repository of Ciliates of Delhi Region, India	Dr Harita Ahuja and Dr Preeti Marwaha (Computer Science) Dr Ravi Toteja and Dr Seema Makhija (Zoology)	Rishabh Jain B.Sc. Physical Sciences with Computer Sciences-III year Vishal B.Sc. Life Sciences-II year Naeem B.Sc. (H) Zoology-II year
22	RFID Enabled Attendance System	Dr Anju Agrawal and Mr Dinesh Kumar (Electronics)	Aditya Kumar and Gagan B.Sc. (H) Electronics III year
23	Gesture Controlled Robot	Dr Anju Agrawal and Dr Monika Bhattacharya (Electronics)	Pushkar Baranwal and Phulender B.Sc. (H) Electronics-II year
24	Data Transfer through CPU Fan.	Dr Ravneet Kaur and Ms Gauri Ghai	Anurag Saxena B.Sc. (H) Electronics II year

		(Electronics)	
25	Electro Simulation in Plants.	Dr Ravneet Kaur and Ms Gauri Ghai (Electronics)	Lalit Upreti, Praval Bisht and Kunal Sharma B.Sc. (H) Electronics III year
26	Magnetic Collision Anti-Collision System	Dr Ravneet Kaur and Ms Gauri Ghai (Electronics)	Lalit Shukla B.Sc. (H) Electronics II year Reya Negi B.Sc. (H) Physics II year
27	Solar Tracker	Dr Udaibir Singh and Mr Dinesh Kumar (Electronics)	Prahlad Prajapat and Ankita Shukla B.Sc. (H) Electronics II year
28	Piezoelectric Generator	Ms Gauri Ghai and Dr Monika Bhattacharya (Electronics)	Abhishek Bhadana and Avinash Kumar Lal B.Sc. (H) Electronics III year
29	Real Time Passenger Counter	Dr Monika Bhattacharya and Mr Dinesh Kumar (Electronics)	Yash Varshney and Abhishek B.Sc. (H) Electronics-II year
30	Mathematical Sketch of Symmetric Group of Degree 5 (S5)	Dr Sarita Agarwal (Mathematics)	Ajay Gupta, Mahak Gupta and Vipul Mishra B.Sc. (H) Mathematics-II year
31	Compartmental Model in Traffic Congestion.	Dr. Sarita Agarwal (Mathematics)	Pushkar Pandey and Kunal Pant B.Sc. (H) Mathematics-I year
32	Review of Potential Biosensing Application using Quartz Crystal Microbalance Monitor	Dr Arijit Chowdhuri and Dr V. Bhasker Raj (Physics)	Anudeep A.S., Viren Tyagi and Amrit Dutta B.Sc. (H) Physics - II year
34	Arduino® for Ambient Air Pollution Measurement Applications	Dr Arijit Chowdhuri (Physics)	Tripti Varshney B.Sc. (H) Physics - II year
35	Protein Profiling of Haemolymph in <i>Helicoverpa armigera</i>	Dr. Sarita Kumar (Zoology)	Vatsal Bhargava, Parikshit Sahrotra and Harshita Sharma B.Sc. (H) Zoology- II year
36	<i>Drosophila melanogaster</i> : A Potent Model Organism for	Dr. Sarita Kumar (Zoology)	Komal Kotra B.Sc. (H) Zoology- II year

	Advanced Studies in Behavioural Sciences		Maryada Arya B.Sc. Life Sciences- III year
37	Ant Culture and Behavioural Studies	Dr. Sarita Kumar (Zoology)	Sunidhi Aneja B.Sc. (H) Zoology-I year
38	Isolation of Macronucleus from Ciliates.	Dr Seema Makhija and Dr Ravi Toteja (Zoology)	Deepanshu Vats B.Sc Life Sciences-II year Ruchika Bhardawaj B.Sc Life Sciences-III year Rajanshi Mishra, Naem Ahmed, Shushank and Mustabin Ahmed B.Sc. (H) Zoology- II year