

ELITE (2018-19)

**ELITE– ‘Education in a Lively Innovative Training Environment’ Summer Fellowship:**

During the summer of 2018, 51 students of the College undertook projects of two-month duration under this scheme. Each student earned a fellowship of Rs. 1000/- p.m. with departments getting a contingency grant for the projects.

S. No.	Title of the Project	Mentor/s	Students
1	Study and extraction of medicinally important plant <i>S. chirata</i> & examination of chemical adulteration in food items	Dr Pankaj Khanna, Dr Kavita Mittal and Dr Neeti Misra	Ankit Rai, Gunjan & Shivam Kumar B.Sc. (H) Chemistry, I Year
2	Physico-Chemical and Biological analysis of soil samples collected from ANDC	Dr Ravi Toteja and Dr Seema Makhija	Khusbhoo and Vanya B. Sc. (H) Zoology, II Year
3	Effect of Heavy Metals and Ethidium Bromide on DNA.	Dr Ravi Toteja, Dr Seema Makhija and Dr Arijit Chowdhuri	Senjuti B. Sc. (H) Zoology, II Year Chaitanya Raj B.Sc. (H) Physics III Year
4	Natural history of butterfly diversity at ANDC	Dr. Sarita Kumar and Dr. Ravinder K Sagar	Shubahm Mohanty B. Sc. (H) Zoology, I Year
5	To understand the mechanism of learning and memory formation in <i>Achatina fulica</i>	Dr. Sarita Kumar and Dr. Ravinder K Sagar	Manisha B.Sc. (H) Zoology, I Year Shipra Yadav B.Sc. (H) Biomedical Sciences, I Year
6	Impact of climate change on Albatross	Dr. Sarita Kumar	Mohit Rajput B.Sc. Life Sciences, II Year

7	Computational analysis of immunogenic factors responsible for the growth of tumor	Dr. Gagan Dhawan	Purnendu Kumar B.Sc. (H) Biomedical Sciences, III Year
8	Green Synthesis, Characterization and Biological evaluation of metallic nanoparticles	Dr. Gagan Dhawan and Dr. Seema Gupta	Gaurav Agrawal, Priyanka Chauhan B.Sc. (H) Biomedical Sciences, III Year
9	Nanoparticle synthesis and their physicochemical characterization	Dr. Seema Gupta and Dr. Gagan Dhawan	Piyush Rana Akash Bharti Akarsh Pandey Tnish Dhir Sameer Gupta B.Sc. (H) Chemistry, II Year
10	Functional Analysis and Characterization of specific Mycobacteriophage Genes	Dr.Namita Singh; Dr.Abhishek Kumar Mehta and Dr. Urmi Bajpai	Amit Babu, Ashwin, Lucky, Muskan Jindal, Prachi, Preeti, Purva, Rohini, Samridhi Didwania, Sansi B.Sc. (H) Biomedical Sciences, I Year Sonanjali

			B.Sc. (H) Biomedical Sciences, II Year
11	Antibacterial activity of different solvent extracts obtained from leaves of <i>Aeglemarmelos</i> (L.) Corr.	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Huda	Shreya Verma B.Sc. (H) Biomedical Sciences, II Year Sunaina B.Sc. (H) Chemistry, I Year
12	Bactericidal activity of seeds extracts of <i>Aeglemarmelos</i> (L.) Corr. using minimum inhibitory concentration and disc diffusion assay	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Huda	Varshini B.Sc. (H) Biomedical Sciences, II Year Gunjan B.Sc. (H) Chemistry, I Year
13	In vitro antibacterial activity of bark extract of <i>Aeglemarmelos</i> (L.) Corr. against gram positive and gram negative bacterial strains	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Huda	Yash Shukla B.Sc. (H) Biomedical Sciences, II Year Himani B.Sc. (H) Chemistry, I Year
14	Antibacterial properties of <i>Aeglemarmelos</i> (L.) Corr. fruit pulp extracts prepared in different organic solvents	Dr. Archana Pandey ; Dr. Satendra Singh and Dr. Sunita Huda	Deepak Pokhreal B.Sc. (H) Biomedical Sciences, II Year Shivam Kumar B.Sc. (H) Chemistry, I Year
15	Column chromatography assisted fractionation of active constituents of <i>aeglemarmelos</i> leaves and their antibacterial activity	Dr. Archana Pandey and Dr. Satendra Singh	Varshini Padmanabhan, Shreya Verma, Riddhi Bhardwaj,

			Urooj Fatima B.Sc (H) Biomedical Science, II Year
16	Security Device Development using Face Recognition Techniques "SWAN"	Dr. Ravneet Kaur Dr. Monika Bhattacharya	Pranjal Singh, Rohit Saini B.Sc.(H) Electronics, III Year
17	PUSTAK-Android Application Development	Dr. Ravneet Kaur Dr. Monika Bhattacharya	Ashutosh Singh, Vikram Bhardwaj B.Sc.(H) Electronics, III Year
18	Cell Phone Detector	Dr. Anju Agarwal Ms. Gauri Ghai	Abhishek Bhadana, Anmol Dogra, Avinash Kumar Lal, Shashank Nagar B.Sc.(H) Electronics, II Year
19	Digital Laboratory Thermometer	Dr. Ravneet Kaur Ms. Gauri Ghai	Chiradeep Das, Ritesh Raj B.Sc.(H) Electronics, III Year
20	B.A.T (Blind Assistance Toolkit)	Dr. Ravneet Kaur Dr. Anita Kumari	Rajat Mann, Lokender B.Sc.(H) Electronics, III Year
21	Laser Security and Music System	Dr. Ravneet Kaur Ms. Gauri Ghai	Akshansh Jha B.Sc.(H) Electronics, III Year

22	Text to Speech Converter	Dr. Ravneet Kaur Ms. Gauri Ghai	Aditya Raj Singh B.Sc.(H) Electronics, II Year
23	Discovery and genomic characterization of Mycobacteriophages and expression & purification of a recombinant protein	Dr. Urmi Bajpai	Ritam Das B.Sc. Life Science, II Year
24	ANDCCCPC	Dr. Sharanjit Kaur Dr. Harita Ahuja	Supriya Katyal Mudita Sanjive B.Sc. (H) Computer Science II Yearsem)
25	Online Ranking of Educational Web-Sites	Dr. Sharanjit Kaur	Prakhar Agrawal  Shubhang Upadhyay
26	Automatic assignment evaluations	Dr. Sharanjit Kaur	Kartik Mishra Rahul Solanki B. Sc. Physical Science (CS) I Year
27	Designing a working PROSTHETIC LEG using advanced Arduino® applications	Dr. Arijit Chowdhuri	Adarsh Prasad  B.Sc. Physical Science (Electronics), III year
28	Environmental Monitoring	Dr. Charu K. Gupta and Dr. Arijit Chowdhuri	Manohar Singh Bisht and Medha Jha  B.Sc. (H) Botany, III Year
29	Using optical technique of surface plasmon resonance (SPR) to detect adulteration in commodities including, honey, oil etc.	Dr. Arijit Chowdhuri, Dr. Charu K. Gupta and Dr. V. Bhasker Raj	Chaitanya Raj, Yogesh Shukla and Anshuman Tripathi  B. Sc. (H) Physics, III Year

30	Quartz crystal microbalance and environmental science	Dr. Arijit Chowdhuri, and Dr. V. Bhasker Raj	Akash Gupta and Siddharth Das B. Sc. (H) Physics, III Year B,Sc. Physical Science (Electronics), III Year
31	Market research on commercial Gas sensors and Electronic Nose in India and abroad	Dr. Arijit Chowdhuri and Dr. Sandeep Kumar Goel	Shubham and Chirag Agarwal B. Com. (H), III Year