

ELITE (2017-2018)

During the summer of 2017, 84 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 | Adsorption of Heavy Metals on EDTA - Functionalized Chitin | Dr Sunita Hooda and Dr Geetu Gambhir | Ravina B. Sc. (H) Chemistry, III Year |
| 2 | Adsorption of Organic Dyes on EDTA - Functionalized Chitin | Dr Sunita Hooda and Dr Geetu Gambhir | Ravina and Aniket B. Sc. (H) Chemistry, III Year |
| 3 | Social Campus | Dr Chandra Kant Samal | Ayush Kumar Varshney, Dhananjay Kumar and Ruman Saleem B. Sc. (H) Computer Science, II Year |
| 4 | The Learning Hub | Dr Chandra Kant Samal | Varad Srivastava and Vikash B. Sc. (H) Computer Science, II Year |
| 5 | Effect of UV Radiation on Ciliate <i>Blepharisma</i> | Dr Ravi Toteja and Dr Seema Makhija | Hritik Kadian and Juhi Jaiswal B. Sc. (H) Zoology, II Year |
| 6 | Phytochemical Screening of Mango Seed Extract; Fine-Tune Investigations on Ciliates, <i>Tetmemena</i> sp (<i>Stylonychia</i>) | Dr Ravi Toteja and Dr Seema Makhija | Umesh Jatav B. Sc. (H) Zoology, II Year Jyoti Gautam B. Sc. (H) Biomedical Science, II Year |
| 7 | To Study the Effect of Temperature and pH on the Growth of Bacteria (<i>Escherichia coli</i>) | Dr Ravi Toteja and Dr Seema Makhija | Ekta Verma B. Sc. (H) Zoology, II Year |
| 8 | Isolation of Mycobacteriophages, Data Mining & Genome Annotation and Instrumentation | Dr Urmi Bajpai | Sonia, Shweta, Prashasti and Suraj B. Sc. (H) Biomedical Science, III Year |
| 9 | Spectrophotometric Studies of Turmeric Extracts and Review of its Medicinal Properties | Dr Pankaj Khanna, Dr Neeti Misra and Dr Leena Khanna | Rajkamal and Jatin B. Sc. (H) Chemistry, I Year |
| 10 | Synthesis of Some Heterocyclic Compounds and a Review on Benzimidazole Synthesis | Dr Pankaj Khanna, Dr Shallu Sachdeva and Dr Leena Khanna | Jatin and Rajkamal B. Sc. (H) Chemistry, I Year |
| 11 | Effect of Heavy Metals and | Dr Rashmi Sharma | Megha Yadav, Parul Dev, Pritam |

| | | | |
|----|---|---------------------------------------|--|
| | Acids on Aquatic Plants Like <i>Lemna gibba</i> , <i>Spirodella polyrrhiza</i> , <i>Wolffia globose</i> and Role in Aquatic Phytoremediation System | | Kashyap and Rinki Kumari B. Sc. (H) Botany, III Year |
| 12 | A Survey of Whatsapp Usage Among Different Groups of People | Dr Sarita Kumar | Prateek Trivedi B.S c. (H) Zoology, II Year |
| 13 | To Study Insect Species Diversity in Campus of Acharya Narendra Dev College | Dr Sarita Kumar | Manoj Kumar B. Sc. (H) Zoology, II Year |
| 14 | Effects of Different Diets on the Growth and Development of <i>Helicoverpa armigera</i> | Dr Sarita Kumar | Ayushi Raturi and Sunil B. Sc. (H) Zoology, I Year |
| 15 | Protein Profiling of Insect Haemolymph by Gel Electrophoresis | Dr Sarita Kumar | Namarta Sharma B. Sc. (H) Zoology, II Year |
| 16 | Creation of Online Repository of Zoological Specimens and Permanent slides | Dr Sarita Kumar | Harveen Kaur B. Sc. (H) Zoology, II Year |
| 17 | To Understand Chemotaxis Plasticity in Native Nematodes | Dr Sarita Kumar and Dr Aparna Sharma | Shubham Rawat B. Sc. Life Sciences, II Year Gaurav and Purnendu B. Sc. (H) Biomedical Science, I Year |
| 18 | Study of regeneration of anterior segments in the earthworm <i>Eisenia fetida</i> | Dr Sarita Kumar and Mr Ravinder Sagar | Harshita, Dipshi Aggarwal, Harmanpreet Kaur and Deepak Sahni B. Sc. (H) Biomedical Science, II Year |
| 19 | Extension in Quaternion Group | Dr Sarita Aggarwal | Abhas Mishra, Pramhans Kushwaha and Sameeksha Pradhan B. Sc. (H) Mathematics, II Year |
| 20 | Ganga River and its Tributaries: Effect of Industrial Pollution | Dr Vandana Uberoi | Anu Malik B. Sc.(H) Chemistry, II Year |
| 21 | Hindon River : Effect of Industrial Chemicals | Dr Vandana Uberoi | Piyush Kumar B. Sc.(H) Chemistry, II Year |
| 22 | Yamuna River and its Tributaries: Pollution Caused by Industrial Effluents | Dr Vandana Uberoi | Antim Rani B. Sc.(H) Chemistry, II Year |
| 23 | The Study of Diversity of Bees during Monsoon Months in Delhi | Dr Charu Khosla Gupta | Saranya Nair B. Sc. (H) Botany, III Year Sibaram Sadarangi |

| | | | |
|----|---|---|--|
| | | | B. Sc. (H) Biomedical Science, II Year |
| 24 | Environment Science: Green Chemistry | Dr Charu Khosla Gupta and Dr Arijit Chowdhuri | Priya Chopra and Jitender Pal Singh B. Sc. (H) Physics, III Year |
| 25 | To Evaluate the Air Pollution Tolerance Index of Different Plant Species as to Select Species to Grow in Respective Areas and Correlation with the Pollutants | Dr Charu Khosla Gupta and Dr Yash Mangla | Mohit Singh B. Sc. Life Sciences, I year Sonanjali Aneja B. Sc. (H) Biomedical Science, I Year Abhijeet Rao B. Sc. Physical Sciences (Chemistry), I Year Sakshi Saraswat B. Sc. (H) Zoology, I Year |
| 26 | Lab Maintenance Application | Dr Ravneet Kaur and Ms Gauri Ghai | Adarsh Maurya B. Sc. (H) Electronics, III Year Ashish Maurya B. Sc. (H) Computer Science, III Year |
| 27 | Communication Tool Kit by Labview | Dr Ravneet Kaur and Dr Anita Kumari | Rachit Agrawal B. Sc. (H) Electronics, III Year Deepak Sharma B. Sc. (H) Electronics, III Year |
| 28 | Study of Transgenerational Epigenetic Inheritance in <i>Moina</i> Species under Hypoxia | Dr Ravi Toteja and Dr Seema Makhija | Ayush, Harshika Gautam, Pooja and Shreya Verma B. Sc. (H) Biomedical Science, I Year |
| 29 | Study of Bacteriophage through Bioinformatics and Advanced Instrumentation | Dr Urmi Bajpai | Prakhar Sonik B. Sc. (H) Biomedical Science, III Year |
| 30 | Pattern of Pupae Colouration and Pigmentation in Developing Fruit Fly | Ms Sunita Jetly | Komal, Riddhi Bhardwaj B. Sc. (H) Biomedical Science, I Year Yukti Khanna B. Sc. Life Sciences, I Year |
| 31 | An Investigation into India's Population: Population Growth Study | Dr Sanjeeta Rani and Dr Parminder Singh | Piyush Sagar, Ativir Pratap Singh B. Sc. (H) Physics, III Year |
| 33 | Green Synthesis and Characterization of ZnS Nanoparticles | Dr Seema Gupta | Priya Kumari B. Sc. (H) Biomedical Science, II Year |
| 34 | Foreigners' Perceptions about India | Mr Manoj Kumar Garg and Dr Joita Dhar Rakshit | Akanksha Shukla, Bhavya Saini and Sweta Singh B. Sc. (H) Biomedical Science, II Year |

| | | | |
|----|---|--|--|
| 35 | Synthesis of CdTe Quantum Dots and its Application in Metal Detection | Dr Seema Gupta | Nitish Kumar B. Sc. (H) Biomedical Science, III Year |
| 36 | Synthetic Fabrication and Optimisation of Gold Nanoparticle for the Development of Fluorescence Based Sensors | Dr Seema Gupta | Saurabh Yadav B. Sc. (H) Biomedical Science, III Year |
| 37 | Green and Low Cost Synthesis and Characterisation of ZNS Nanoparticles | Dr Seema Gupta | Shagun Sharma B. Sc. Life Sciences, III Year |
| 38 | Social Media Platform for Students and Colleges | Dr Chandra Kant Samal | Ayush Kumar Varshney, Dhananjay Kumar and Ruman Saleem B. Sc. (H) Computer Science, I Year |
| 39 | Smplycode Programming Tutorial Application(PTA) | Dr Sharanjit kaur | Saurabh Yadav B. Sc. Physical Sciences (Computer Science), II Year |
| 40 | An Investigation into India's Population | Dr Sanjeeta Rani Dr Parminder singh | Piyush Sagar and Ativir Pratap Singh B. Sc. (H) Physics, III Year |
| 41 | Quartz Crystal Microbalance (QCM) | Dr Arijit Chowdhuri Dr V. Bhasker Raj | Siddharth B. Sc. Physical Sciences (Electronics), II Year |
| 42 | Discovery of Bacteriophages, Data Mining and Annotation and Instrumentation | Dr Urmi Bajpai | Sonia Trikha B. Sc. (H) Biomedical Science, II Year |
| 43 | To Study the Effect of Zein nanoparticles on <i>Candida albicans</i> | Dr Seema Gupta | Mani Gupta B. Sc. (H) Biomedical Science, I Year |
| 44 | Online Student Assistant | Dr Sharanjit kaur | Jyoti Kumari and Mamta Kumari B. Sc. Physical Sciences (Computer Science), II Year |