## ELITE PROJECTS (2016-17)

94 students undertook projects of two month duration under this scheme.

S. No.	Title of the Project	Mentor/s	Students
1	Study of diversity of bees during the summer months in Delhi.	Dr. Charu K Gupta and Dr. Arijit Chowdhuri	Jalabi Chowdhari and Keshav Rathor  B.Sc. (H) Biomedical Science, III Year  Rupashi and Priyanka  B.Sc. (H) Biomedical Science, II Year
2	Synthesis and characterization of zinc sulfide, lead sulfide and copper sulfide nanoparticles by chemical precipitation method.	Dr. Seema Gupta and Dr. Gagan Dhawan	Jayati Khanna  B.Sc. (H) Biomedical Sciences, II Year
3	Preparation of bioactive styryl coumarins for the study of its fluorescent property	Dr. Sunita Hooda and Dr. Geetu Gambhir	Devendra Sharma and Simran Aggarwal B.Sc. (H) Chemistry, II Year
4	Comparative pharmacokinetic analysis of commercial analgesics using bioinformatics approach	Dr. Archna Pandey and Dr. Satendra Singh	Abhishek Kumar  B.Sc. (H) Biomedical Science,  III Year
5	Study of SNP of duffy antigen using publicly available web-based bioinformatics resources	Dr. Gagan Dhawan	Kajal Kumari B.Sc. (H) Biomedical Science, I Year
6	The parents' outlook- experiences and problems faced by parents while caring for their disabled child	Dr. Archana Pandey and Dr. Abhishek Mehta	Shrutika Jha  B.Sc.(H) Biomedical Science,  I Year
7	Study interaction of <i>P. vivax</i> duffy binding protein with duffy antigen on RBC surface by	Dr. Gagan Dhawan	Shailya Verma  B.Sc. (H) Biomedical Science,

	bioinformatics tools.		I Year
8	e-STUDENT - Website for	Dr. Sunita Narang	Priya Singh, Gaurav Jain,
	student resources		Deepanshu, Tejveer, Sagar
			B.Sc. Physical Science II Year
9	Environment monitoring system	Dr. Anju Agrawal and	Kiran, Amrita Kumari, Aman Sharma and Abhijeet
		Dr. Anita Kumari	B.Tech. Electronics, III Year
10	Effect of UV radiation on ciliate	Dr. Ravi Toteja and	Mahima Kumari and Mukesh Kumar
	Euplotes aediculatus	Dr. Seema Makhija	B.Sc. (H) Zoology, III Year
			Hritik Kadian
			B.Sc. (H) Zoology, II Year
11	Online recommender system	Dr. Harita Ahuja	Aman Taneja, Gauresh Bhati, Karan Rakheja, Kishan Haldar, Monika Mittal and Prashank Jauhari
			B.Tech. Computer Science, II Year
	Thermoelectric generator (TEG)	Dr. Anju Agrawal and Dr. Anita Kumari	Rachit Agrawal, Anand Kumar Pandey, Deepak Sharma and Maneesh Kumar
12			B.Sc. (H) Electronics, I Year
13	Synthesis of different transition		Ritika Madaan
	metal sulfides nano particles by different methods on the basis of	Dr. Seema Gupta	B.Sc. (H) Biomedical Science,
	capping agents.		II Year
14	Synthesis of zinc sulphide and lead sulphide nano particles	Dr. Gagan Dhawan	Anmol
	using EDTA and PVA as capping agents and their	and Dr. Seema Gupta	B.Sc. (H) Biomedical Science
	characterization		II Year
15	Identification of TCCS (the	Dr. Sarita Kumar and	Astha Sachdeva, Chandni Brar and
	chosen crustacean species) and study of the molecular	Dr. Geetu Gambhir	Sarthak Khurana

	mechanism of its haemoglobin		B.Sc. Life Sciences II Semester
	gene expression		Mukul Rohila
			B.Sc. (H) Biomedical Science
			I Year
16	Student assistant application (SAA)	Dr. Sunita Narang and Dr. Sharanjit Kaur	Shubhit Gulati, Ishank Shukla and Punchok Namgial
		Dr. Sharanjit Haar	B.Sc. (H) Computer Science II Year
17	"Protorials" a programming	Dr. Sharanjit Kaur	Ekansh Tiwari
	tutorials application (PTA)		B.Sc. (H) Computer Science
			II Year
			Varad Srivastava and Siddharth Mishra
			B.Sc. (H) Computer Science,
			I Year
18	Culturing Drosophila melanogaster	Dr. Ravi Toteja and Dr. Seema Makhija	Ananya Mahajan, Barkha Aggarwal and Pratibha Narang
		Di. Seema Wakinja	B.Sc. Life Sciences, III Year
19	Identification of species by	Dr. Ravi Toteja and	Divya Yadav
	comparing the secondary structure of rRNA and ITS 2	Dr. Seema Makhija	B.Sc. (H) Zoology, I Year
20	A study and comparison of the quality of honey obtained from	Dr. Sarita Kumar	Manoj Kumar
	beekeepers and honey available in the market		B.Sc. (H) Zoology, I Year
21	Synthesis and characterization of	Dr. Gagan Dhawan and	Sauarbh Yadav
	gold nanoparticles (AuNP)	Dr. Seema Gupta	B.Sc. (H) Biomedical Science,
			II Year

22	Determination of some soft drink constituents and contamination by some heavy metals	Dr. Sunita Hooda and Dr. Geetu Gambhir	Simran Aggarwal and Harshi Shrivastava B.Sc. (H) Chemistry, II Year
23	Organic waste management	Dr. Sanjeeta Rani	Arvind Kumar and Deepak Kumar  B.Sc. (H) Physics, III Year
24	To study honey bee species of Delhi and NCR region and study its ecology and behaviour".	Dr. Charu K Gupta and Dr. Arijit Chowdhuri	Pritam Kashyap  B.Sc. (H) Botany, II Year
25	Isolation and identification of Caenorhabditis elegans	Dr. Sarita Kumar and Dr. Geetu Gambhir	Jyoti Pal  B.Sc. (H) Biomedical Science, III Year  Shubham Rawat  B.Sc. Life Sciences, I Year
26	Gut bacteria-symbiotic association with gut of Eisenia fetida	Dr. Sarita Kumar and Dr. Geetu Gambhir	Mayuri Mathuria  B.Sc. (H) Biomedical Science, II Year  Pratyaksh Singh  B.Sc. (H) Botany II Year
27	Synthesis and characterisation of CuS nanoparticle and calculation of its band gap energy	Dr. Gagan Dhawan and Dr. Seema Gupta	Nitish Kumar  B.Sc. (H) Biomedical Science,  II Year
28	Analytical comparison of road space rationing (odd–even rule)	Dr. Sarita Agarwal	Naina Kholi and Nisha Gupta B.Sc. (H) Mathematics,

			III Year
29	Detection and measuring chaos in non-linear dynamical systems	Dr. Sadanand Prasad and Dr. Neeti Goel	Priyanshi Saxena, Neelima Arora, Kanika Mehta and Satyavir B.Sc. (H) Mathematics,
			III Year
30	A study of image segmentation and arithmetic operation using ring theory and its application	Dr. Laxmi Narain, Mr. Brijendra Yadav and Dr. Hanuman Verma	Sudarsha Pal, Vikram Dangi, Vishal Kejriwal and Yash Ruhela B.Sc. (H) Mathematics, II Year
31	Investigating recent trends in modeling of deteriorating inventory	Dr. Chaman Singh, Mr. Gurudatt Rao and Mr. Narayan Singh	Shival Gulati, Subhi Sinha and Riya Bhatia B.Sc. (H) Mathematics, II Year
32	Chemical analysis of soil	Dr. Sunita Hooda and Dr. Geetu Gambhir	Harshi Shrivastava and Devendra Sharma B.Sc. (H) Chemistry, II Year
33	Virtual screening of commercial antibiotics for their comparative pharmacological properties	Dr. Archana Pandey and Dr. Satendra Singh	Naim Ahmad  B.Sc. (H) Biomedical Science,  III Year
34	Mannich reaction: A one-pot three-component reaction catalysed by Ruthenium (II)- chlorido-dimethyl sulfoxide, [RuCl2(DMSO)4]	Dr. Vikrant Kumar	Dipin Tomar and Pavitra Shrivastav B.Sc. (H) Chemistry, II Year
35	Field visit to Agasthyamalai bioreserve with Frogman, Professor Biju	Dr. M.S. Rajeswari	Abhishek Singh, Barkha Gupta, Bhavana Sharma and Gaurav Yadav B.Sc. (H) Botany, III Year
36	Studies on effect of UV on the sensing response of gas sensors	Dr. Arijit Chowdhuri and Dr. Charu K Gupta	Vaibhav Singh and Rohit Dubey B.Sc. (H) Electronics, III Year

37	Ambient air pollution (AAP)	Dr. Arijit Chowdhuri	Ativir Singh Vivek Kumar
	measurement using gas sensors- a preliminary study	and Dr. Charu K Gupta	B.Sc. (H) Physics, II Year
			Vivek Kumar
			B.Sc. (H) Physics, III Year
38	Mapping particulate matter	Dr. Arijit Chowdhuri	Priya Chopra and Jatinder Pal Singh
	pollution faced by commuters in public transport in Delhi	and Dr. Charu K Gupta	B.Sc. (H) Physics, II Year
39	Effect of saline stress on total soluble protein, catalase and peroxidase activities in Chickpea (Cicer arietinum), Moong dal (Vigna radiata) and Mustard (Brassica juncea)	Dr. Rashmi Sharma	Nitika and Jyoti Sahu  B.Sc. (H) Botany II Year  Monika Negi and Neetu  B.Sc. Life Science III Year
40	Predicting the win of a political party using game theory	Dr. Chaman Singh	Alok Kumar, Balbeer Singh, Kapil Thapaliyal and Satish Kumar Patel B.Sc. (H) Mathematics III Year