

## Students' Innovative Projects

The Students' innovative projects give the space where students' ideas are distilled into workable projects that are product-oriented. Each year, IEDC provides funding for conducting about five to six students' research projects. Each project has teacher mentor(s) and at least three students who work as a team through the year. Students come up with self-driven innovative business-oriented ideas based on their interests. The students identify the mentor, discuss and design the detailed projects in order to develop low cost beneficial products of commercial use. The aim of each project is to result in one marketable innovative product. Since its inception at ANDC, the IEDC has funded a total of 26 students' projects.

S. No.	Name of Project	Name of Mentor(s)	Students Team
<b>2014-15</b>			
1.	Extraction of Microbial Enzymes from Kitchen Waste and Development of Biological Detergent.	Dr Seema Gupta Dr Manisha Jain Dr Gagan Dhawan	Nitish Malhotra,, B.Sc.(H) Biomedical Science II Yr Shiwani Katiyar, B.Sc. (H) Biomedical Science II Yr Rahul Shah, B.Sc. (H) Biomedical Science I Yr
2.	Development of alternative anti-bacterials through Bacteriophage-derived proteins, isolated from India.	Dr Urmi Bajpai	Shazeb Ahmad, B.Sc. (H) Biomedical Science II Yr Rahul Kushwaha, B.Sc. (H) Biomedical Science II Yr Simran Viridi, B.Sc. (H) Biomedical Science II Yr
3.	Formulation of Mehndi Remover Using Natural Products	Dr Sarita Kumar	Nandani Sahani, B.Sc. (H) Zoology III Yr Sakshi Bhardwaj, B.Sc. (H) Zoology III Yr Priyanka Dasgupta, B.Sc. (H) Zoology III Yr
4.	Development of Low Cost disinfectant using cow urine	Dr Neeti Misra Dr Pankaj Khanna	Vineet Kumar Pal B.Sc. (H) Biomedical Science II Yr Manisha B.Sc.(H) Biomedical Science II Yr

			Atul Kumar, B.Sc.(H) Biomedical Science II Yr
5.	Multipurpose Quad-copter	Dr. Sona P. Kumar and Dr. Vibha Gaur	Ankit Pant B.Tech. Computer Science II Yr Anuj Gupta B.Tech. Electronics II Yr Ashutosh Gupta B.Tech Electronics II Yr Avi B.Tech. Computer Science II Yr Prag jain B.Tech. Computer Science II Yr Subhankar Ganguli B.Tech. Computer Science II Yr
<b>2013-14</b>			
6	Design and Development of Gold Nanoparticle based Optical Biosensor for Protease Sensing	Dr Seema Gupta Dr Manisha Jain Dr. Gagan Dhawan	Divyansh Mittal B.Sc. (H) Biomedical Science III Yr Eshant Bhatia B.Sc. (H) Biomedical Science III Yr Nitish Malhotra B.Sc. (H) Biomedical Science II Yr
7	Development of compact water purifier system	Dr. Charu K. Gupta Dr Arijit Chowdhuri	HariPriya Sharma B.Sc. (H) Botany II Yr Sagarik B.Sc. (H) Botany II Yr Abhishek Tiwari B.Sc Life Sciences II Yr
8	Development of Charcoal Based Chelating Resin for Waste Water treatment	Dr. Sunita Hooda Dr. Madhu Bala Raigar	Arun Kumar B. Sc.(H) Chemistry II Yr Vinod Singh B. Sc.(H) Chemistry II Yr Shantu B. Sc.(H) Chemistry II Yr
9	Sensors based Notification System for the Visually Handicapped	Dr. Ravneet Kaur Dr. Vibha Gaur	Vijay Giri B.Sc. (H) Computer Science III Yr Anuj Gupta B.Tech. Electronics II

			Yr Ankit Pant B.Tech Computer Science II Yr
10	Generating Biogas and Organic fertilizer using solid waste from college and surrounding disposal sites	Dr. Saumya Saxena Mr. Pawan Kumar	Himanshu Saini, B.Sc.(H) Botany III Yr Nidhi Varshney, B.Sc.(H) Botany III Yr Vivek Singh B.Sc.(H) Botany III Yr
11	A low cost microbiotest for detecting insecticides by exploring behavioral and ecotoxicological response of fresh water ciliates	Dr. Ravi Toteja Dr. Seema Makhija	Manu Sankar B.Sc.(H) Zoology III Yr Vikas Ahlawat B.Sc.(H) Zoology III Yr Ashish Choudhary, B.Sc. (H) Zoology III Yr
<b>2012-2013</b>			
12.	Use of open source tools integrating bioinformatics and cheminformatics for addressing complex problems in biology	Dr. Gagan Dhawan	Debanjana Chakravarty, B.Sc. (H) Biomedical Science III Yr Tanaya Chatterjee, B.Sc. (H) Biomedical Science II Yr 3. Manisha Goel B.Sc. (H) Biomedical Science II Yr
13.	Development of Novel Antifungal Soap Ingredient	Dr. Vikrant Kumar	Aishwarya Ramesh, B.Sc.Physical Science II Yr Neelam Bhadana B.Sc. (H) Biomedical Science II Yr Shabnam Ansari B.Sc.(H) Biomedical Science II Yr
14.	Evaluation of the beneficial properties and formulation of certain useful products from the waste peels of banana	Dr. Sarita Kumar	Vanshika Kaushik, B.Sc. (H) Zoology II Yr Tanya Maurya B.Sc. (H) Zoology II Yr Suman Panwar B.Sc. (H) Zoology II Yr
15.	Development of Bioactive Paper Sensor for determination of Pesticide Residues	Dr. Geetu Gambhir	Neelam Kumari, B.Sc.(H) Zoology III Yr Premlata Rai B.Sc.(H) Zoology III Yr Asha B.Sc.(H) Biomedical Science III Yr

16.	Development of sensor module for gas sensing applications	Dr. Arijit Chowdhuri	Prayas Tewari B.Sc. (H) Computer Science II Yr Ashish Pokhariyal, B.Sc. (H) Computer Science II Yr Pankaj Rawat B.Sc. (H) Computer Science II Yr
17.	Environment Management by Chemical Waste Treatment at the Source	Dr. Seema Gupta Dr. Manisha Jain	Shweta Sharma B.Sc.(H) Chemistry III Yr Pooja Rawat B.Sc. (H) Chemistry III Yr Neha Kumari B.Sc. (H) Chemistry III Yr Shubham Biswas B.Sc. (H) Chemistry III Yr
<b>2011-2012</b>			
18	Fabrication of Novel Polysaccharide based Biosensors as Ion Exchanger	Dr. Sunita Hooda, Dr. Madhu Bala Raigar	Wancha Arya B.Sc.(H) Chemistry III Yr Piyush K. Tiwari B.Sc. Life Sciences III Yr Pooja Dogra B.Sc. Life Sciences III Yr
19	Use of Bioluminescent Ciliate sensors as an alternative method for measuring heavy metals in fresh water samples	Dr. Seema Makhija Dr. Ravi Toteja	Prateek B.Sc. (H) Zoology II Yr Kritika B.Sc. (H) Zoology II Yr Praveen B.Sc. (H) Zoology I Yr
20	Formulation of biodegradable and low cost liquid detergent for laboratory glassware	Dr Seema Gupta Dr Manisha Jain	Ravi Kumar B.Sc.(H) Chemistry III Yr Namrata Chakraborty B.Sc.(H) Chemistry II Yr Akash B.Sc.(H) Chemistry III Yr
21	Formulation of medically important products from Silk Cocoons waste	Dr Sarita Kumar Mr. Sanjay Vohra	Ankush Jain B.Sc. (H) Zoology II Yr Saddam Hussain B.Sc. (H) Zoology II Yr Ashok Marandi

			B.Sc. (H) Zoology II Yr Anubha Seth B.Sc.Life Sciences III Yr
22	Development of Phototherapy blanket for treatment of jaundice in infants	Dr. Amit Garg	Jatin Butta B.Sc. (H) Electronics II Yr Shah Alam B.Sc. (H) Electronics II Yr Parveen Kr. Jha B.Sc. (H) Electronics II Yr
<b>2010-2011</b>			
23	CASE Tool Box	Dr. Vibha Gaur	Arani Adhikari B.Sc. (H) Computer Science III Yr Vikash Jha B.Sc. (H) Computer Science III Yr Manpreet Singh Anand B.Sc. (H) Computer Science II Yr
24	Development of Low Cost Glucometer	Dr. Amit Garg	Paritosh Dwivedi B.Sc. (H) Electronics I Yr Sidharth Sharma B.Sc. (H) Electronics I Yr Himanshu Bhatt B.Sc. (H) Biomedical Science II Yr Reema Kathuria B.Sc. (H) Biomedical Science II Yr Nitish Kumar Mallick B.Sc. (H) Electronics III Yr Dharmender Kumar Mahato B.Sc. (H) Electronics III Yr
25	Identification and formulation of products from weed extracts exhibiting anti-mosquito potential	Dr. Sarita Kumar	Gokul Nair B.Sc. (H) Zoology II Yr Sahil Batra B.Sc. (H) Zoology III Yr Abhay Pratap Singh B.Sc.(H) Zoology III Yr
26	Development of New Eco-friendly Natural Dyes from Potential Plants materials for dyeing different textile	Mr. Sanjay Vohra	Deepak Verma B.Sc.Life Sciences III Yr Pooja Kumari

	materials		B.Sc.Life Sciences III Yr Archana Yadav B.Sc.Life Sciences III Yr Rishi B.Sc.Life Sciences III Yr
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