

Students Projects – Science & Technology

S #	Name of the Teacher	Name of the student	Class, Funding Organization	Title of the project (2010-11)
1	Dr Ramesh Dogra	Ms Prabhjot Kaur	BSc III, DBT	Preparation and characterization of graft co-polymers prepared by using benzoyl peroxide as reaction initiator.
2	Dr Ramesh Dogra	Ms Navpreet Kaur	BSc III, DBT	Preparation and characterization of graft co-polymers prepared by using benzoyl peroxide as reaction initiator.
3	Dr Sajeev Soni	Ms Anjali	BSc III, DBT	Synthesis, characterization and reactivity studies of $[\text{Co}(\text{opd})_2(\text{N}_3)_2]\text{NO}_3$.
4	Dr Sajeev Soni	Ms Sakshi	BSc III, DBT	Synthesis, characterization and reactivity studies of $[\text{Co}(\text{opd})_2\text{Cl}_2]\text{Cl}$.
5	Dr Jasamrit Nayyar	Vikas Garg	BSc III, DBT	A Study on, Graphene based Copper Catalyst for the Ullmann Coupling Reaction
6	Dr Jasamrit Nayyar	Princy	BSc III, DBT	Synthesis 4-toluene sulphonamide using different reaction conditions.
7	Dr Shweta Wadhavan	Chandni Bandopadhyay	BSc III, DBT	Effect of increase in chain length of alcohols on CMC of sodium dodecylsulphate.
8	Dr Shweta Wadhavan	Sugandha Singla	BSc III, DBT	Variation in critical micelle concentration of HTAB with increase in chain length of alcohols.
9	Dr Jyoti Kataria	Ms. Mehak	BSc III, DBT	Synthesis, characterization and reactivity studies of $[\text{Co}(\text{NH}_3)_5\text{ONO}]\text{Cl}_2$
10	Dr Jyoti Kataria	Ms Ruby	BSc III, DBT	Synthesis, characterization and reactivity studies of $[\text{Co}(\text{NH}_3)_5\text{ONO}]\text{Cl}_2$

Department of Chemistry
List of student projects funded by DBT, (2009-10)

Sr. No.	Name	Industry / Institute	Topic	Teacher	Total Amount Spend (Rs)
1	Kriti Goyal	Deptt. Of Chemistry, GGSDS College, Chd	'Extraction of oils from seeds and their analysis.'	Dr. Ramesh Dogra	3000/-
2	Swati Mittal	Deptt. Of Chemistry, GGSDS College, Chd	'Extraction of oils from seeds and their analysis.'	Dr. Ramesh Dogra	3000/-
3	Tewinder Kaur	Deptt. Of Chemistry, GGSDS College, Chd	'Synthesis and characterization of coordination compounds of chromium'	Dr. Sajeev Soni	3000/-
4	Khushleen	Deptt. Of Chemistry, GGSDS College, Chd	'Synthesis of coordination compounds of cobalt'	Dr. Sajeev Soni	3000/-
5	Jagjeet Kaur	Deptt. Of Chemistry, GGSDS College, Chd	'Green esterification using montmorillonite K-10 clay of different carboxylic acids'	Dr. Jasamrit Nayyar	3000/-
6	Jaishree Sharma	Deptt. Of Chemistry, GGSDS College, Chd	'Microwave assisted solvent less preparation of a few alkyl esters of 4-aminobenzoic acid'	Dr. Jasamrit Nayyar	3000/-
7	Ranu Shukla	Deptt. Of Chemistry, GGSDS College, Chd	'Effect of alcohol on critical micelle concentration of cationic surfactant [HTAB]'	Dr. Shweta Wadhawan	3000/-

2. Swati Disinfecting contaminated water using Sodis method.
3. Shilpa To see the effect of yeast on the sugar content of different fruit juices
4. Tanya Estimation of protein formed at various time intervals during *S.cerevisae*
5. Parul Effect of natural preservatives on the growth of micro-organisms in bread.

2010 - 2011

1. Aarushi To compare bacterial fermentation in the production of curd and yoghurt.
2. Ranjeet Effect of temperature on the development of chick embryo.
3. Priya To see the effect of zinc sulphate on chick development .
4. Kritika To see the effect of Ph on the growth of yeast.
5. Nisha To see the amount of vitamin-C present in various fruit juices.
6. Malobika To see the effect of antibiotics on the growth of bacteria.

Department of Botany

(DBT GRANT) 2009-2010

1. To estimate chlorophyll content of trees growing in shade v/s trees growing in sunlight.
2. To determine pH and EC of soil under trees growing in shade v/s soil under trees growing in sunlight.
3. To compare dissolve oxygen content in different polluted and unpolluted water samples from areas in and around Chandigarh.
4. To check adulteration in various milk samples collected from Chandigarh.
5. To check the effect of different salt concentration on germination of *Phaseolus aureus*. L (moong seeds).
6. To compare pH and EC of water of polluted and unpolluted areas in and around Chandigarh.
7. To check adulteration in various milk samples collected from Ambala.
8. Data collection of trees species in campus of G.G.D.S.D. college sec 32-C Chandigarh.

PROJECTS DONE BY STUDENTS UNDER STAR COLLEGE SCHEME (DBT GRANT) 2010-2011

1. To determine the percentage of gluten in different binds of flours.
2. To compare fertility of soils of exotic vs native trees.
3. To determine alcoholic acidity of different types of flours.
4. To analyse toned and untoned milk samples and to detect preservatives and adulterants in these samples.
5. To determine moisture content of different oils by air oven method.
6. To compare the rate of germination of cicer arietinum (gram) seeds in the soils below native vs exotic trees and estimation of chlorophyll content of seedling.

7. To determine moisture content of different kinds of semi-solid oils by hot plate method.
8. To find out the productivity in terms of chlorophyll content of the seedlings formed after exposure to microwave radiations.
9. To find out status of soil below exotic vs native trees in terms of germination of seeds of *Phaseolus aureus*.
10. To know the effect of microwave radiation on
 - I Germination of seeds
 - II Chlorophyll content of seedlings.