

Research facilities and high end equipments in P.G Department of Chemistry

Name of Instrument and Make: Double beam UV-Vis Spectrophotometer (Systronics-AU 2701)

Cost (in Rs.): 4,50,000/- (approximately)



Photograph:

Specifications & Use:

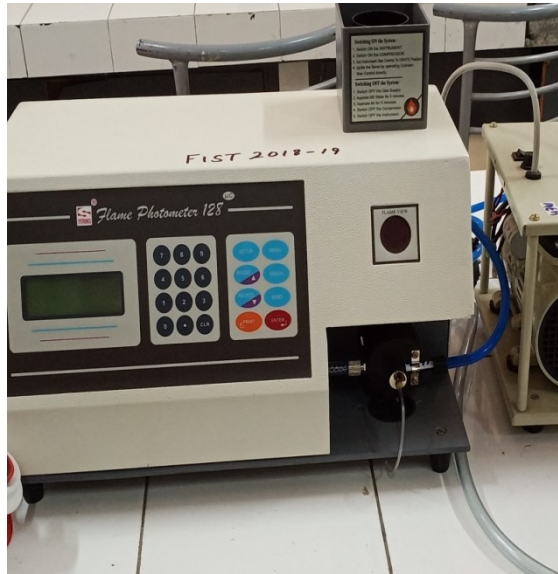
Double beam UV-Vis Spectrophotometer (Systronics-AU 2701)

To measure and compare the absorbance of different solutions in UV-VIS region

To measure and compare transmittance and concentration of different solutions in UV-VIS region

Name of Instrument and Make: Flame Photometer (Systronics)

Cost (in Rs.): 58,000/- (Approximately)



Photograph:

Specifications & Use:

Flame Photometer (Systronics)

Flame photometry is analytical technique which provides information about the composition and concentration of elements in a sample.

Name of Instrument and Make: Muffle Furnance (Metrex)

Cost (in Rs.): 58,000/- (Approximately)



Photograph:

Specifications & Use:

A muffle furnace is used for the isolation of materials from the fuel and the products of combustion, involving gases and flying ash.

Name of Instrument and Make: Weighing Balance (A&D Company)

Cost (in Rs.): 32,000/- (Approximately)



Photograph:

Specifications & Use: Weighing Balance (A&D Company)

Weighing balance is used to measure weight and mass of the chemicals.

Name of Instrument and Make: Polarimeter (Popular Trader)

Cost (in Rs.): 30,000/- (Approximately)



Photograph:

Specifications & Use: Polarimeter (Popular Trader)

Polarimeter is used to determine optical activity of the compound by determining its optical rotation

Name of Instrument and Make: Digital Melting Point apparatus (Popular Trader)

Cost (in Rs.): 19,000/- (approximately)



Photograph:

Specifications & Use:

Digital Melting Point apparatus (Popular Trader)

To measure and compare the melting point and purity of the compounds.

Name of Instrument and Make: Magnetic Stirrer (Moxcare)

Cost (in Rs.): 86,000/- (approximately)



Photograph:

Specifications & Use: Magnetic Stirrer (Moxcare)

A magnetic stirrer is used in chemistry to stir small volumes.

Name of Instrument and Make: Fume Hood (ACCO)

Cost (in Rs.): 60,000/- (approximately)



Photograph:

Specifications & Use: Fume Hood (ACCO)

Fume hoods protect laboratory users from exposure to hazardous materials. It provides a safe, enclosed work area for chemical manipulations and provides critical ventilation.

Name of Instrument and Make: Microprocessor based pH meter (Systronics)

Cost (in Rs.): 85,000/- (approximately)



Photograph:

Specifications & Use: Microprocessor based pH meter (Systronics)

It is used to determine pH (acidity and alkalinity) of the compounds.

Seed Money Details
Chemistry Department
2021-22

<i>Name of the teacher and students provided with seed money</i>	<i>Research/ Project Title</i>	<i>Duration of the grant</i>	<i>Amount of seed money</i>	<i>Month and Year of receiving</i>
Dr. Manju Sahni & Dr. Narinderjit Kaur Chemistry	Effect of different solvents on reverse micellar extraction of dye from textile effluent	2 years	1,30000	January 2019 (Completed & Submitted)
Dr. Harpreet Kaur & Dr. Narinderjit Kaur	Natural Dyeing at Home	1 year	30,000	January 2022 (ongoing)

<i>Name of the Principal Investigator/ Co-Investigator (if applicable)</i>	<i>Department of the Principal Investigator/ Co-Investigator</i>	<i>Name of the Funding Agency</i>	<i>Type (Government/Non-Government)</i>	<i>Funds provided (INR in lakhs)</i>	<i>Month and Year of receiving the grant</i>	<i>Duration of the Project</i>	<i>Name of the project</i>
Dr. Narinderjit Kaur (CI)	PG. Dept. of Chemistry	DST Power	Government		Accepted provisionally		Evaluation of biological activity of plant compounds from Eucalyptus Sp. against insect

							pest https://drive.google.com/file/d/1obdVBcODtYb00VJVmdrq69KEez-oo13r/view?usp=sharing
<i>Dr. Harpreet Kaur-PI (PG Dept. of FD)</i> <i>Dr. Narinderjit kaur-CI (PG Dept. of Chemistry)</i>	<i>PG. Dept. of Chemistry</i>	<i>KMV</i>	<i>Non-Governm ent</i>	<i>30,000/-</i>	<i>November 2021</i>	<i>1 year (1 year extension)</i>	Natural Dyeing at Home https://drive.google.com/file/d/1hwiPRDa6If2x9qJfHgaje5RAvzret4rN/view?usp=sharing
<i>Ms. Tanksinderpalk abal Singh/ Barjinder Kaur, M.Sc Chemistry Semester I, Roll Number:224953 and Arshdeep Kaur, M.Sc Chemistry Semester I, Roll Number: 224954</i>	<i>PG. Dept. of Chemistry</i>	<i>KMV</i>	<i>Non-Governm ent</i>	<i>1,10,000 /-</i>	<i>March,20 23</i>	<i>2 years</i>	Sterculia gum based magnetic hydrogel matrix for adsorptive removal of dyes from aqueous solutions https://drive.google.com/file/d/1azsBFljaWfdriVusmjWQ3l3Pg8mNHjK0/view?usp=share_link
<i>Dr. Shikha/ Navpreet Kaur, M.Sc. Chemistry Sem 1, Roll Number: 224952</i> <i>And Poonam Pathania</i>	<i>PG. Dept. of Chemistry</i>	<i>KMV</i>	<i>Non-Governm ent</i>	<i>1,10,000 /-</i>	<i>March,20 23</i>	<i>2 years</i>	<i>Synthesis and Characterization of Neoteric solvents for Drug Delivery</i> https://drive.google.com/file/d/1wcPxpHw0wtAeNIAJangJ5L0-

M.Sc. Chemistry Sem 1, Roll Number: 224959							xndy3AsK/view?usp=share_link
Dr. Swati Awasthi/ Sakshi, M.Sc. Chemistry Sem 1, Roll Number: 224967 And Kritika M.Sc. Chemistry Sem 1, Roll Number: 224963	PG. Dept. of Chemistry	KMV	Non- Governm ent	1,10,000 /-	March, 20 23	2 years	Synthesis, Characterization and Applications of imidazolium based ionic liquids https://drive.google.com/file/d/1G1nNu8zbuLknnCKg34s88PWsA2cKX6FQ/view?usp=share_link