

**PG Department of Chemistry, Guru Nanak Girls College, Model Town, Ludhiana, under the guidance of Dr.(Mrs.) Charanjit Mahal , Director GNGC, GNCH and GNIFD and Principal Dr.(Mrs.) Rakhi Malhotra, organized an educational trip to Department of Renewable Energy Engineering, PAU, Ludhiana.**



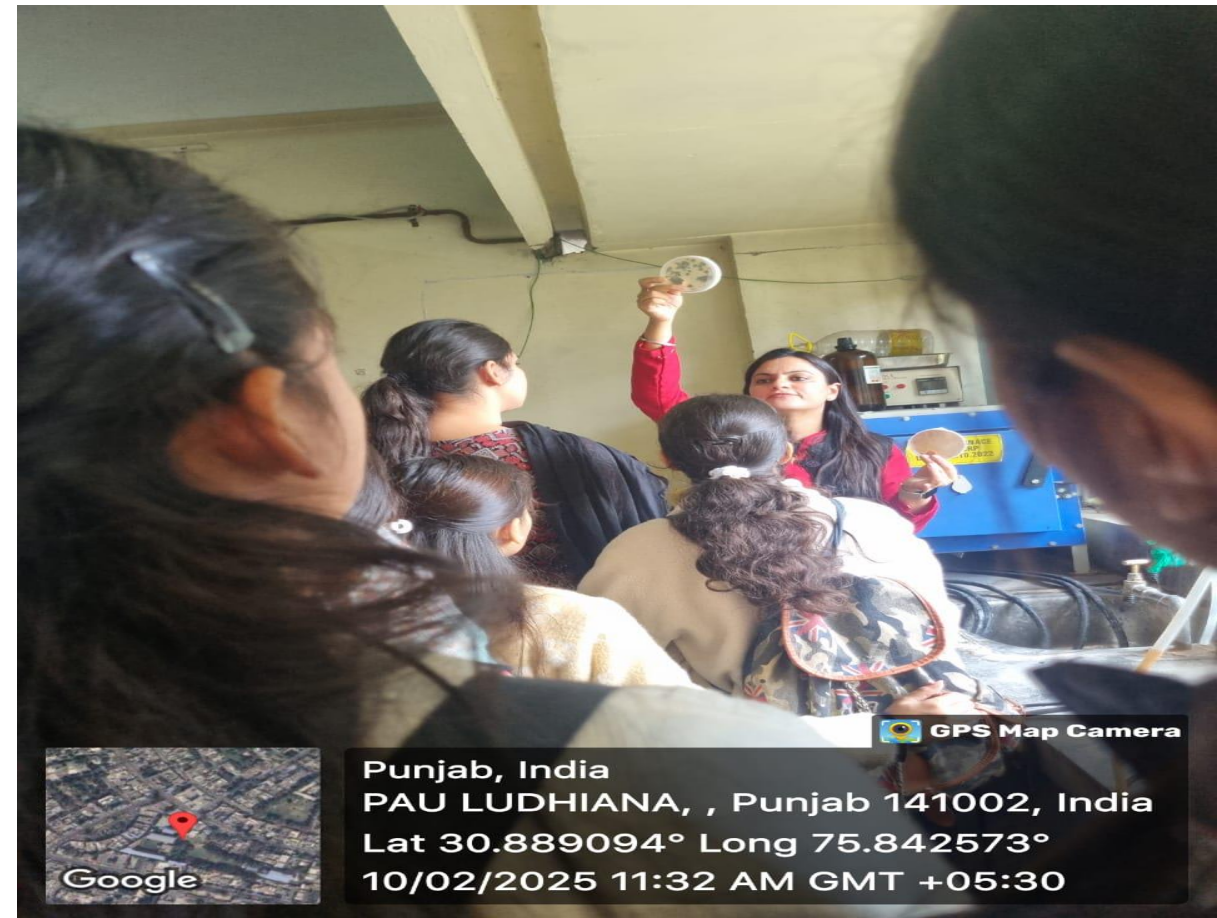
 **GPS Map Camera**



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Dr. Urmila Gupta and Dr. Ajit kaur Randhawa demonstrated biogas production by water displacement method.

Production of bio enzymes, silica extraction, chemical analysis of silica was also demonstrated.



- Dr. Ritu Dogra and Dr. Manpreet Singh showed the working of biogas plant using rice paddy straw as the raw material. Paddy Straw being converted into the biogas is need of the hour in view of the rising pollution caused every year by burning of these paddy straws.



- Dr. Sukhmeet Singh showed the production of solar energy for various purposes. Students were shown solar panels, domestic solar cookers and dryers, water heaters.



- Dr. Monika Sachdeva and Dr. Iqbal Singh showed how biodiesel are being produced by trans esterification of non edible oils like Karanja oil and jatropha oil with methanol, whereby glycerol is formed as a byproduct, which is purified and then marketed seperately.



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