

Department of Chemistry

Project Duration - 15 days Date: 20/01/24 to 05/02/2024

Venue- Siddhachalam Laboratory

Class- MSc IV Sem

Total No. of Students -22

NEP -2020 is implemented in our Govt. Nagarjuna P.G. College Science (GNSC) Raipur from Session 2023-24. As per the NEP the project was introduced in MSc Chemistry IV Semester as per the DSC course in the session 2023-24.

MSc IV semester were allowed to conduct experiments and perform project at Siddhachalam laboratory. Siddhachalam laboratory Birgaon is a well-equipped laboratory where water sample analysis, instrumentation training, nanomaterial synthesis and plastic recycling etc. are carried out. MOU has been signed between Siddhachalam laboratory and Govt. Nagarjuna P.G. College of Science Raipur on dated 18 Jan 2024 in this session 2024 for five years.

All twenty-two students of MSc IV semester were sent to Siddhachalam laboratory for the project commence from 20 Jan 2024 to 5 Febr 2024 with the permission of Principal Dr. P.C. Choubey and Dr. A.K. Mishra Head of Dept. Chemistry Govt. Nagarjuna P.G. College of Science Raipur. NOC from the parents of the students were also taken before initiating the project at Sidhhachalam Laboratory Birgaon. The whole project was supervised and coordinated by Dr. Archana Asatkar, Assist. Prof Chemistry, Convenor Chemical Society 23-24. Dr. Mitisha Baid Co- Convenor, Chemical Society and Dr. Vinod Jena, Asst Prof. Chemistry were co-supervised and provided assistant during the whole project.

The project work was initiated on 20th Jan 2024 in the morning 11:00 am. The students were divided into five groups during and each group was allotted a topic to perform the project.

The topics allotted to five groups were as follows:

1. GNCS College Water Sample Testing and Analysis
2. Hostel Water Sample Testing and Analysis
3. Instrumentation – Instrument calibration and operation.
4. Nanoparticle Synthesis and Characterization
5. Plastic (HDPE) recycling: Conversion of Waste Water Tank Plastic into Irrigation Pipes.

On the above topics the experiments were conducted and successfully completed the project by MSc Chemistry IV Sem students. After completion of the project, power point presentation and viva were given by each student at Siddhachalam laboratory in the presence of Dr A. K. Mishra, Dr S. K. Patle and Dr Archana Asatkar from Dept of Chemistry, GNCS Raipur. At last, Certificates were distributed to the students by Dr Bhawana Jain, Director, Sidhhachalam

Glimpses



Inauguration and MOU signature with Dr Bhawana Jain Director, Sidhhachalam Laboratory, Dr Archana Asatkar, Convenor Asst Professor Chemistry, GNSC Raipur and Dr. Mitisha Baid Co-convenor, Asst. Professor, Dept. of Chemistry, GNSC Raipur along with MSc IV Sem students 2023-24 Batch



Laboratory visit



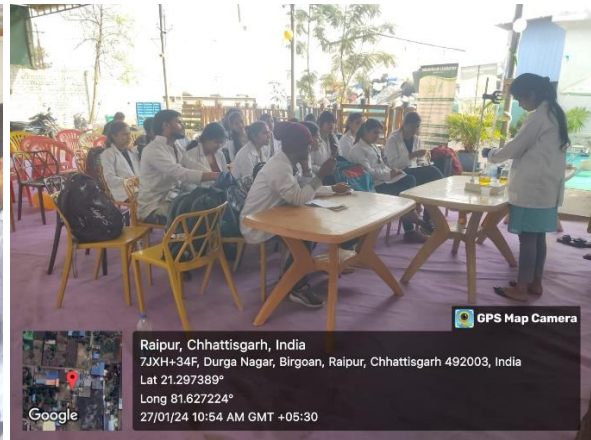
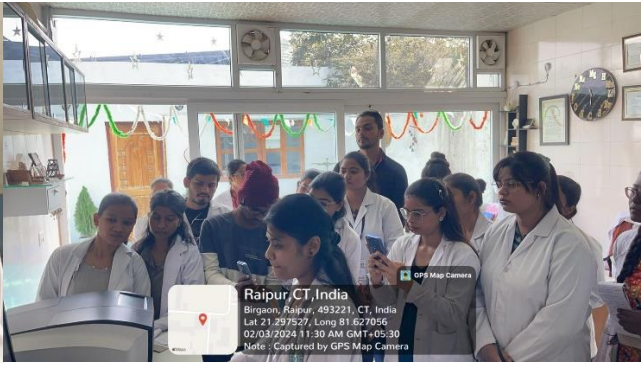
Water Sample Analysis



Instrumentation



Plastic Recycling Unit



Demonstration of Water Analysis



Nanoparticle Synthesis and characterization



Group discussion and PowerPoint presentation





Valedictory and Certificate Distribution



