

Sri GVG Visalakshi College for Women (Autonomous)
Department of Chemistry
DBT report for SREC instrumentation centre visit

In order to foster innovation/science among students & faculty, Sri Ramakrishna Engineering College (SREC) promotes education by providing training, internship, study visits and certificate courses. Nanoscience and Technology Department often accepts and organise a study visit programme of instrumentation facilities for science graduate students. With an intention to gain a practical knowledge on nanoscience a study tour was planned by Chemistry Department of Sri GVG Visalakshi College for Women to Sri Ramakrishna Engineering college, Coimbatore, a total of 46 students of III B.Sc. chemistry, along with 2 assistant professors of chemistry visited the instrumentation centre on 28.02.2018.

The day started with good hospitality by Head of the Department Dr. Daniel Thangadurai, SREC and Mr. S. Sathiesh Kumar explained the basic concepts and application of Nanoscience. After segregation of the students into two teams/batches the explanation was given by the staffs and research scholars.



During the one day programme students were given demonstration on the basic Principle, construction and working of their followings instruments.

DST-FIST Sponsered Research Lab

- DC Sputtering
- Solar Simulator
- PL Spectroscopy

Characterisation Lab

- X-Ray Diffraction with (Small Angle Scattering & polycrystalline)
- Atomic Force Microscopy (EFM, MFM, FMM, Nano Indentor & Lithography tool)
- UV-Vis spectroscopy & DRS
- Particle Size Analysis
- Zeta potential Analysis
- ATR-FTIR spectroscopy
- Electrochemical Workstation.





D.C Sputtering, electrochemical method, CV work station and UV spectroscopy was explained by Mr. S. Sathiesh Kumar.

XRD, AFM, FTIR, Physical vapour deposition was explained by Dr. C. Narendhar.

Double distillation unit, Box furnace, Ball milling and autoclave was explained by research scholars of the Department.

The success and value of the tour was clearly confirmed by all participants and the need for events of this nature was emphasized by them. We are very happy that the students participated utilized the opportunity given to them to the fullest. We acknowledge DBT for offering funds to visit this kind of instrumentation centre.



 **DBT STAR COLLEGE SCHEME** 
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Organized by
Department of Chemistry

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