

Dept. of Microbiology, PES Modern College of Arts, Science & Commerce,  
Ganeshkhind, Pune-16.

**Report: DBT-STAR Training Workshop**

**'Biochemical Techniques and Instrumentation'**

Under the aegis of **DBT-STAR college scheme**, **Microbiology department** conducted a hands-on Training Workshop on '**Biochemical Techniques and Instrumentation**', on **1/07/16**, **2/07/16** and **4/07/2016** for under-graduate students in order to expose them to the basic principles of biochemical techniques and principles of construction and working of instruments. Resources Persons **Dr. Sougata Ghosh**, **Dr. Manasi Tukdeo** and **Mr. Shreyas Kumbare (ICMR-SRF, MCC-NCCS)** conducted the workshop which included both **lectures** and **hands-on training**. The participants were exposed to various aspects about **Chromatographic techniques** (Principles of Chromatography, Extraction procedures, sample preparation, designing of solvent system, development of TLC and visualization techniques such as exposure to iodine/ u.v. light; Applications of TLC in Forensic Science); Principles of **u.v.- visible spectroscopy**, instrumentation (colorimeter and spectrophotometer), lab techniques and applications; Principles of **gel electrophoresis**, instrumentation and working of electrophoretic apparatus, polyacrylamide gel electrophoresis, reagent preparation, loading of samples, staining and de-staining for visualization. These aspects are important in designing and execution of experiments in Microbiology. Forty-five under-graduate students (39 TYBSc Microbiology students of our college, 3 TYBSc Microbiology students from Abasaheb Garware College and 3 TYBSc students from Modern College, Shivajinagar) participated in the workshop.



