

Dept. of Microbiology, PES Modern College of Arts, Science & Commerce,
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Report: DBT-STAR Training Workshop

'Physicochemical and Microbiological Characterization of Soil'

Under the aegis of **DBT-STAR college scheme**, **Microbiology department** conducted a hands-on Training Workshop on '**Physicochemical and Microbiological Characterization of Soil**', on **24/06/16** and **25/06/2016** for under-graduate students in order to expose them to applied aspects of Microbiology. Keeping in view their immense experience, Mr. Mihir Thatte, Vaintey Chem Products Pvt. Ltd. And Mr. Shreyas Kumbhare (ICMR –SRF, MCC-NCCS) were invited to conduct this workshop which included both **lectures** and **hands-on training**. The participants were exposed to various aspects about soil such as sampling (how to collect a representative soil sample), preparation of soil sample for testing; how to do dilutions of soil sample for taking the microbial counts; soil formation, soil composition, pH, electrical conductivity, macronutrients, micronutrients and how to do Total Viable Counts (pour plate and spread plate technique). These aspects are important from soil fertility and agriculture point of view. They were also exposed to 'Microbial diversity of soil and molecular techniques used in analysis of microbial composition of soil'. Twenty-five under-graduate students (19 SYBSc Microbiology students of our college, 3 SYBSc Microbiology students from H.V. Desai College and 3 TYBSc Biotech students from our college) participated in the workshop.