

SEMINAR

2019-20

Report on National Seminar on “Eco-friendly strategies for Sustainable Environment”

28th and 29th February, 2020

The faculty of Life sciences (Departments of Chemistry, Microbiology, Biochemistry, Genetics & Biotechnology) of Bhavan's Vivekananda College conducted a National Seminar on “Eco-friendly strategies for Sustainable Environment” on 28th and 29th February, 2020. The seminar was organised to celebrate National Science Day under DBT-Star College Scheme. Environmental sustainability is a fundamental requirement to avoid depletion and degradation of natural resources. Developing effective strategies for maintaining the balance in natural environment is the need of the hour.

The chief guest of the seminar was Prof. K. Janardhan Reddy, Regional Coordinator of Telangana Academy of Sciences, Hyderabad Centre. The Guest of Honour of the event was Prof. Purshottam Reddy (Retd), Political Science Department, OU, Eminent Environmentalist, Academician and Development Activist. The seminar was presided by Sri I.Y.R. Krishna Rao, IAS (Retd.), Former Chief Secretary, Govt. of AP, Chairman, Bharatiya Vidya Bhavan, Sainikpuri Kendra and Air Commodore (Retd), J.L.N. Sastry, VSM, Vice Chairman, Bharatiya Vidya Bhavan, Sainikpuri, Kendra. Welcome address was delivered by Prof Y.Ashok, Principal, BVC. Dr. Madhumita Bhattacharjee, Convenor and Head, Department of Chemistry, BVC, presented the overview of the National Seminar schedule.

The chief guest for the valedictory was Prof. Shivaraj, Dean, Faculty of Sciences, Development & UGC affairs, OU, Hyderabad.

The two-day event comprised of technical sessions by eminent scientists and oral and poster presentation by enthusiastic participants. The seminar has got a huge participation which included students, scholars and faculty members from various educational and Research Institutions within and outside Telangana.



TRAINING COURSES

2019-20

1. Training in “Clinical Laboratory Diagnostics” at Vimta Labs

The students of B.Sc, Biochemistry along with other life science students were taken to Vimta Labs, Cherlapally, Hyderabad for observership to gain experience in clinical laboratory setup. This programme was organized under the DBT-STAR COLLEGE SCHEME for undergraduate students from 6th September, 2019 to 9th September, 2019. In the Clinical Reference Laboratory (CRL), students were given an extensive understanding of the procedures and were shown about the sample collection, processing, barcoding and segregation of various samples. Students were demonstrated about the high end automation used in clinical laboratories. They were also explained and demonstrated about the chemiluminiscence immunoassays (CLIA) and serum protein electrophoresis. In the histopathology lab, they were shown the grossing, section cutting, staining and mounting of

Institute of Genetics and Hospital for Genetic Diseases
25th to 29th November, 2019

In Clinical Genetics, students were briefed about the different pre-natal and post-natal diagnostic techniques, new born screening and about genetic disorders. They were also explained about the significance of Genetic counselling to the couples who are at increased risk of having a heritable disorder and the risk of transmitting it to their unborn offspring.

Students also learnt about Karyotyping, FISH and Micro-array techniques which are used for diagnosis of chromosomal disorders in new-borns while in the Cytogenetics lab they learnt about the DNA isolation techniques. Various types of PCR (Conventional, PCR-RFLP, Microsatellite repeats, SSCP, Allele-specific PCR, ARMS PCR) were learnt in Molecular Biology lab.

In Clinical Biochemistry lab, analysis of ceruloplasmin, TSH, 17-OH Progesterone and urine copper were learnt. The importance of HPLC in diagnosing Haemoglobinopathies was also demonstrated. Students had hands-on experience with some of the diagnostic techniques that are routinely used in biochemistry labs.

