



Bharatiya Vidya  
**Bhavan**

**Bhavan's Vivekananda College  
of Science, Humanities and Commerce**  
Autonomous College-Affiliated to Osmania University

Value added course on

**“Genetic diagnostic methods and Counselling”**

17<sup>th</sup> -20<sup>th</sup> September, 2018

**Organized by**

**DEPARTMENT OF BIOCHEMISTRY**

In collaboration with

**Institute of Genetics and Hospital for Genetic Diseases,  
Begumpet, Hyderabad**

**Department of Biochemistry**  
**Value added course (2018-19)**  
**In collaboration with Institute of Genetics, Hyderabad**  
**Programme Schedule**  
**15<sup>th</sup> – 20<sup>th</sup> September, 2018**

<b>Day 1 : 15<sup>th</sup> September, 2018</b> <i>Venue: Bhavan's Vivekananda College</i>	
2:30 – 4:30 pm	<ol style="list-style-type: none"> <li>1. Basic understanding of Human chromosomes arrangement in normal and genetically defective individuals.</li> <li>2. Introduction to inborn errors of Metabolism.</li> </ol> <i>Resource person: Mrs. M. Usha, Lecturer, Dept of Biochemistry, BVC</i>
<b>Day 2 : 17<sup>th</sup> September, 2018</b> <i>Venue: Institute of Genetics, Hyderabad</i>	
10:00 – 5:00 pm	<ol style="list-style-type: none"> <li>1. Lecture on the activities conducted by the Institute of Genetics</li> <li>2. Karyotyping of normal and abnormal chromosomes of various genetic disorders.</li> </ol> <i>Resource person: Dr. G. Deepika, Dept of Environmental Toxicology</i> <ol style="list-style-type: none"> <li>3. TIFFA (Targeted Imaging For Fetal Anomalies)</li> </ol> <i>Resource person: Dr. T. Sunitha, Dept of Clinical Genetics</i>
<b>Day 3 : 18<sup>th</sup> September, 2018</b> <i>Venue: Institute of Genetics, Hyderabad</i>	
10:00 – 5:00 pm	<ol style="list-style-type: none"> <li>1. Lecture on Cytogenetics and karyotyping</li> <li>2. Isolation of DNA from human blood sample and separation of extracted DNA by Agarose Gel Electrophoresis.</li> </ol> <i>Resource person: Dr. A. Venkateshwari, Dept of Cell Biology</i> <ol style="list-style-type: none"> <li>3. Demonstration of T<sub>3</sub>, T<sub>4</sub> and TSH using ELISA</li> </ol>
<b>Day 4 : 19<sup>th</sup> September, 2018</b> <i>Venue: Institute of Genetics, Hyderabad</i>	
10:00 – 5:00 pm	<ol style="list-style-type: none"> <li>1. Principle and demonstration of Comet assay</li> <li>2. Procedure and methodology for               <ol style="list-style-type: none"> <li>i) Micronucleus assay</li> <li>ii) Chromosomal abberations</li> <li>iii) Sister chromatid assay</li> </ol> </li> </ol> <i>Resource person :Mr. Suresh, Dept of Toxicology</i>
<b>Day 5 : 20<sup>th</sup> September, 2018</b> <i>Venue: Institute of Genetics, Hyderabad</i>	
10:00 – 5:00 pm	<ol style="list-style-type: none"> <li>1. Theory and demonstration to identify Wilson's disease</li> <li>2. Principle of HPLC- Analysis of human samples to detect thalasemia condition.</li> </ol> <i>Resource person :Dr. B. Vijayalakshmi, Dept of Clinical Biochemistry</i> <ol style="list-style-type: none"> <li>3. Genetic counseling- Measures, necessity and implementation.</li> </ol> <i>Resource person :Dr. M. Sujatha, Dept of Clinical Genetics</i>
	<p><b>Valedictory</b>  <b>Certificate Distribution by</b>  <b>Dr. A. Venkateshwari,</b>  <b>Director Incharge, Institute of Genetics, Hyderabad</b></p>

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