

**SARDAR PATEL UNIVERSITY**  
**Programme: BSC (ZOOLOGY)**  
**Semester: V**  
**Syllabus with effect from: June 2013**

<b>Paper Code:</b> US05CZOO03	<b>Total Credit: 3</b>
<b>Title Of Paper:</b> Cell Biology	

Unit	Description in detail	Weighting (%)
<b>1</b>	History and types of light microscopes Electron microscopy. Microtomy. Fixation and staining. Cell fractionation. Chromatography Electrophoresis. Radioimmuno essay. HPLC.	
<b>2</b>	Ultra structure and physiology cell organelles Plasma membrane. Lysosome. Mitochondria. Endoplasmic reticulum.	
<b>3</b>	Golgi complex. Nucleus. Chromosomes structure , Nomenclature, Human chromosomal abnormalities. Polytene and lampbrush chromosomes.	
<b>4</b>	Ribosome. Micro bodies. Microtubules and filaments Centrioles and basal bodies. Cilia and flagella.	

**Basic Text & Reference Books:**

- Cell and molecular Biology. De Robertis.
- Cytology .P.S.Verma and V K Agrawal.

