COURSE CODE	COURSE TITLE	С	Н	Ι	Е	Т
17U4ZMP2	MAJOR PRACTICAL 2	4	2	25	75	100

CELL AND MOLECULAR BIOLOGY, BIOCHEMISTRY AND BIOCHEMICAL TECHNIQUES

Cell Biology

- 1. Microscopy Cell Observation
 - Cell Measurements
- 2. Preparation of Cells and tissues
 - a) Squamous epithelium
 - b) Striated, Smooth and Cardiac Muscle.
- 3. Cell division
 - a) Mitosis Root tips
 - b) Meiosis Grass hopper testis
- 4. Cell Counts
 - a) Total count RBC & WBC Human
 - b) Differential Count.

Biochemistry and biochemical techniques

- 1. Estimation of Proteins, carbohydrate and lipids.
- 2. Qualitative analysis of protein, carbohydrates and lipids.

Instrumentation:

Principle and uses of

- 1. Electrophoresis
- 2. Chromatography
- 3. Spectrophotometer/ Colorimeter
- 4. Centrifuge

Molecular Biology and Genetics

- 1. Isolation of DNA
- 2. Mounting polytene chromosomes
- 3. Observation of chromosomal variation from permanent slides or pictures provided

Spotters: Holiday structure, Twins, genetic disorders, Structure of DNA& RNA, Replication model, Mendelian traits in Man.