 **DEPARTMENT OF BIOTECHNOLOGY** 



**COURSE MODULE**

**Class**: B.Sc. (Biotechnology)

**Name of the teacher:** Ms.Anindita De

**Subject code: BSBT 112 (0+3) Email:** [***aninditade001@gmail.com***](file:///C:\Users\nirupa\Desktop\aninditade001@gmail.com)

**Subject Title: Cell Biology Lab Contact No.** 8427105346

**Semester:** II **Total Labs: 12**

**Objectives:**

This is the subject enabling the students to gain basic background of the structure and functions of cell and its organelles and relate their involvement in the cellular organization. This practical course is meant to provide first hand laboratory knowledge and make the students confident of doing laboratory assignments independently.

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| **Sr. NO.** | TOPICS TO BE COVERED | **No. of Lab** |
| 1. | Sub Cellular Fractionation and marker enzymes | 1 |
| 2. | Mitosis | 1 |
| 3. | Meiosis | 1 |
| 4. | Vital staining for visualizing cell organelles | 1 |
| 5. | Histo-chemical Techniques | 1 |
| 6. | Instrumental methods for Cell Biology- | 1 |
| 7. | Centrifugation | 1 |
| 8. | Chromatography. | 1 |
| 9. | Microscopy: | 1 |
| 10. | Bright field Microscopy: | 1 |
| 11. | Phase contrast Microscopy: | 1 |
| 12. | Fluorescence microscopy | 1 |
|  | **Total hours** | 12 |

**Instruction for students:**

1. *75%**attendance is mandatory, below this percentage; student will not be allowed to appear in the examination.*
2. *The students will record the details of practical in the practical note book and get it checked every time from the instructor after the experiment has been completed*
3. *No students is entertained in the lab without the lab coat*

**Books recommended:**

1. Plummer DT (1998) An introduction of practical biochemistry. 3rd ed., Tata Mcgraw Hill Publishers Co. Ltd., New Delhi
2. Singh, S.P. (2006) Practical manual of Biochemistry. 6th Edition, CBS publication.