



INSTRUCTION DIVISION, FIRST SEMESTER 2017 – 2018

COURSE HANDOUT (PART II)

Date: 22.08.2017

In addition to Part – I (General Handout for all courses) printed on Page 1 of the timetable book; this portion gives further specific details regarding the course.

Course Number : **BIO F110**

Course Title : **BIOLOGY LABORATORY**

Instructor In-charge : **P. SANKAR GANESH**

Instructors (Section) : U. Mary Priyanka (1) Gireesha Mohannath (7)
V. Ramakrishna (2) Veerana Kamuni (8)
Sunetra Sen (3) Gargi S Prasad (9)
Trinath Jamma (4) Bakhya Shree (10)
Naresh Patnaik (5) Madhu Rekha (11)
Daipayan Ghosh (6)

Course Description: An introductory level course, where students would perform selected experiments of biology in the laboratory, so that they appreciate the concepts learnt in theory course. Experiments that are covered in the course include those that related to mi

croscopy and micrometry, quantification of biological macromolecules, chlorophyll estimation, measurement of solvent potential of plant tissue, measurement of parameters related to cell cycle, experiments related to hematology, DNA quantification from the plant organs.

Scope and Objective: The major objective of this course is to impart knowledge on application of biological sciences to encourage student's interest in biology. This course is designed to make the student understand various biological phenomena, and equip the student with knowledge of simple biology laboratory techniques. The following 10 experiments will be conducted as part of the course.

Experiments:

Sl. No.	Title of the experiment
1	Measurement of total protein content in the given sample
2	Separation of chlorophyll pigments using paper chromatography
3	Study of the phenomenon of plasmolysis in onion peel
4	Identification of mitotic stages in the given plant tissue sample
5	Determination of ABO-Rh blood types
6	Micrometric measurement of microorganisms
7	Measurement of glucose content in the given sample
8	Measurement of total cholesterol levels in serum
9	Extraction of DNA from banana
10	Observation of permanent slides

Evaluation Component:

<i>Evaluation component</i>	<i>% (Marks)</i>	<i>Date and time</i>	<i>Nature of the component*</i>
Lab Record (Results & Viva)*	50 (100)	Every Practical	OB
Mid semester Evaluation	20 (40)	07/10/2017 2:00 pm	CB
End semester Evaluation	30 (60)	30/11/2017 9:00 am	CB

***Note:**

Wearing lab coat and closed shoes are mandatory to enter into the laboratory.

No student will be permitted do perform the practicals without lab manual.

No student will be allowed into the laboratory after 10 minutes from the beginning of the practical session

Notices: All notices, concerning the course will be displayed on CMS

Grading policy: Students missing one or more evaluation component(s) will be awarded Not Cleared (NC) grade.

Make-up policy: Make-up will be granted only on medical grounds.

Academic Honesty and Integrity Policy: Academic honesty and integrity are to be maintained by all the students throughout the semester and no type of academic dishonesty is acceptable.

Prof. P. Sankar Ganesh
Instructor In-charge
BIO F110