

MANGALORE



UNIVERSITY

DEPARTMENT OF BIOSCIENCES

MSc BIOTECHNOLOGY

PRACTICALS (SOFT CORE COURSES)

BTP 508 IMMUNOTECHNOLOGY

Course outcome

The student will:

- Learn the immune system structure and function
- Carry out experiments to quantify immune cells
- Get hands-on training in various immunological assays of medical and diagnostic importance
- develop skills in immunotechnology

Study of immune system in rats

Blood film preparation and study of immune cells

Histology of organs of immune system

Study of insect hemocytes

Production of antiserum

Isolation of lymphocytes

Antigen-antigen reactions (*in vitro*)

Phagocytosis (*in vitro*)

Immunodot technique

Immunodiffusion technique

Immunological diagnosis of pregnancy and infection

Demonstration of ELISA technique