



SEMESTER-IV

COURSE 11: IMMUNOLOGY

Learning objectives:

• To promote critical thinking among students

• To provide students with a foundation in immunological processes

• To provide students with knowledge on how the immune system works building on their previous knowledge

• To clearly state the role of the immune system

• To compare and contrast the innate versus adaptive immune systems

• To provide an overview of the interaction between the immune system and pathogens

Learning Outcomes:

The overall course outcome is that the student shall develop deeper understanding of concepts of immunology. This course will provide students with a deep knowledge in immunology by the completion of the course the graduate shall able to -

• Articulate the roles of innate recognition receptors in immune responses

• Compare and contrast humoral versus cell-mediated immune responses

• Distinguish various cell types involved in immune responses and associated functions;

• Distinguish and characterize antibody isotypes, development, and functions

• Understand the role of cytokines in immunity and immune cell activation;

• Understand the significance the Major Histocompatibility Complex in terms of immune response and transplantation