

Course Title/Code: **Therapeutic Antibodies (MMPH6022)**

Department: Pharmacology and Pharmacy

Objective:

- To provide an overview of monoclonal antibody-based therapeutics
- To study the pharmacokinetics and pharmacodynamics of therapeutic antibodies
- To introduce different technologies for therapeutic antibody engineering
- To review the contemporary development of therapeutic antibodies in cardiovascular, metabolic and cancer diseases

Content:

- Monoclonal antibody-based therapeutics – Medical History and Current Status
- Pharmacokinetics and pharmacodynamics of therapeutic antibodies
- Engineering and production of therapeutic antibodies
- Application and development of therapeutic antibodies in different types of diseases

Learning outcomes:

- To understand the principles of monoclonal antibody-based therapies
- To appreciate the unique pharmacological properties of therapeutic antibodies
- To discuss disease conditions for which patients might be given therapeutic antibodies
- To identify important considerations in managing patients on antibody therapies
- To recognize the developmental process and pipelines of therapeutic antibodies for different types of diseases

Prerequisite: Nil

Duration: Second semester, 2 hours/week, 24 hours

Coursework / Examination ratio: Continuous Assessment (40%) and Examination (60%)

Examination Written Examination / 2-hour

Remarks: Students with biochemical and biomedical background preferred.