

Course Title/Code: **Advanced Drug Delivery and Drug Development (MMPH6185)**

Department: Pharmacology and Pharmacy

Objective: To provide a broad overview of the current trends and new strategies in drug development. The advances in drug delivery, the application of analytical techniques in pharmaceutical analysis, and the trends in biopharmaceutical manufacture will be discussed.

Content: Topics include:

- Current trends in drug delivery and drug development
- Analytical techniques in pharmaceutical analysis
- Novel drug delivery systems
- Biopharmaceutical manufacture

Learning outcomes: On completion of these courses, students will be able to:

- Explain the basic principle of drug delivery and dosage form design
- Identify the barriers to drug delivery
- Understand the application of various analytical techniques in pharmaceutical analysis
- Describe the latest trends of biopharmaceutical drug development
- Discuss the development of novel drug delivery systems

Prerequisite: Students with chemistry and biomedical background preferred

Duration: Second Semester; 3 hours/week, 30 contact hours

Coursework / Examination ratio: In course assessment (50%) and Final examination (50%)

Examination method and duration: Written examination / 2 hours

Remarks: Students with chemistry and biomedical background preferred.