MPharm course outline

**Specialisation: Pharmaceutical Biotechnology**

MPharm Part – I (One year)

PQA 601 Modern Pharmaceutical Analysis  
PBT 601 Industrial Microbiology  
PBT 602 Bioprocess Engineering.  
PBT 603 Modern Pharmaceutical Biotechnology  
PBT 604 Molecular Biology & Immunology  
PBT 605 Comprehensive Practical  
PBT 606 Seminars in Pharmaceutical Biotechnology

MPharm Part – II (One year)  
Dissertation work

**Specialisation: Pharmaceutical Chemistry**

MPharm Part-I (One year)

PCH 601 Medicinal Chemistry-I  
PCH 602 Medicinal Chemistry-II  
PCH 603 Medicinal Chemistry-III  
PCH 604 Advanced Pharmaceutical Chemistry  
PCH 605 Spectral and Chromatographic Methods in Pharmaceutical Chemistry.  
PCH 606 Experiments in Pharmaceutical Chemistry (Practical)  
PCH 607 Seminars in Pharmaceutical Chemistry

MPharm Part-II (One year)  
Dissertation work

**Specialisation: Pharmaceutical Quality Assurance**

MPharm Part-I (One year)

PQA 601 Modern Pharmaceutical Analysis  
PQA 602 Quality Assurance & Management  
PQA 603 Regulatory Affairs  
PQA 604 Pharmaceutical Analysis & Product Development  
PCE 602 Biopharmaceutics and Pharmacokinetics  
PQA 605 Experiments in Pharmaceutical Quality Assurance (Practical)  
PQA 606 Seminars in Pharmaceutical Quality Assurance

MPharm Part-II (One year)
Dissertation work

**Specialisation: Pharmaceutics**

MPharm Part-I (One year)
PQA 601 Modern Pharmaceutical Analysis
PCE 601 Industrial Pharmacy
PCE 602 Biopharmaceutics and Pharmacokinetics
PCE 603 Advances in Drug Delivery Systems
PCE 604 Cosmetic Technology
PCE 605 Experiments in Pharmaceutics (Practical)
PCE 606 Seminars in Pharmaceutics

MPharm Part-II (One year)
Dissertation work

**Specialisation: Pharmacognosy**

MPharm Part-I (One year)
PCO 601 Advanced Pharmacognosy and Phytochemistry
PCO 602 Industrial Pharmacognosy
PCO 603 Medicinal Plant Biotechnology
PCO 604 Biological Screening of Herbal Drugs
PCO 605 Spectroscopic and Chromatographic Techniques for Natural Products
PCO 606 Practicals in Pharmacognosy
PCO 607 Seminars in Pharmacognosy

MPharm Part-II (One Year)
Dissertation work

**Specialisation: Pharmacology**

MPharm Part-I (One year)
PQA 601 Modern Pharmaceutical Analysis
PHA 601 Advanced Pharmacology
PHA 602 Drug Discovery and Development
PHA 603 Applied and Clinical Pharmacology
PHA 604 Cellular and Molecular Pharmacology
PHA 605 Experiments in Pharmacology (Practical)
PHA 606 Seminars in Pharmacology

MPharm Part-II (One year)
Dissertation work
Specialisation: Pharmaceutical Administration

MPharm Part-I (One year)
- PMA 601 Principles and Practice of Management
- PMA 602 Pharmaceutical Marketing
- PMA 603 Disease Management
- PMA 606 Regulatory Environment and Intellectual Property Rights
- PMA 607 Managerial Economics and Financial Management
- PMA 608 Comprehensive Practical
- PMA 609 Seminars Pharmacy Management

MPharm Part – II (One year)
- PMA 610 Marketing Research (First 6 months)
- PMA 612 Human Resource Development and Auditing (First 6 months)
- Dissertation work (Last 6 months)

Specialisation: Pharmacy Practice

MPharm Part-I (One year)
- PPR 601 Applied Pharmacotherapeutics – I
- PPR 602 Applied Pharmacotherapeutics – II
- PPR 603 Clinical and Hospital Pharmacy
- PPR 604 Drug Discovery Development and Clinical Research
- PPR 605 Clinical Pharmacokinetics, Toxicology and Biostatistics
- PPR 606 Comprehensive Practical
- PPR 607 Seminars in Pharmacy Practice

MPharm Part- II (One Year)
- Dissertation work

Specialisation: Pharmaceutical Marketing

MPharm Part-I (One year)
- PMA 601 Principles and Practice of Management
- PMA 602 Pharmaceutical Marketing
- PMA 603 Disease Management
- PMA 604 Sales and Advertisement Management
- PMA 605 International Marketing
- PMA 608 Comprehensive Practical
- PMA 609 Seminars Pharmacy Management

MPharm Part – II (One year)
- PMA 610 Marketing Research (First 6 months)
- PMA 611 Industrial Marketing (First 6 months)
Dissertation work (Last 6 months)