

## Syllabus Structure - M. Pharm Syllabus

Department of Pharmaceutical Sciences and Technology for the M. Pharm Course

### Branch – Drug Delivery Technology

#### Semester I

No.		Course code	Subjects	Hours/week (L+T)	Marks	Credits
1	Core I	PYT 2106	Physical Methods of Analysis	2+1	50	3
2	Core II	PHT 2102	Drug Delivery Systems – I	2+1	50	3
3	Core III	PHT 2103	Advanced Pharmaceutics	2+1	50	3
4	Elective I			2+1	50	3
5	Elective II			2+1	50	3
6	Project I	PHP 2501	Critical Review of One Research Publication	2+1	50	3
7	Project II	PHP 2502	Seminar	2+1	50	3
			<b>TOTAL</b>	<b>14 + 7</b>	<b>350</b>	<b>21</b>

#### Semester II

No.		Course code	Subjects	Hours/week (L+T)	Marks	Credits
1	Core I	PHT 2101	Research Methodology	2+1	50	3
2	Core II	PHT 2105	Drug Delivery Systems – II	2+1	50	3
3	Core III	PHT 2106	Models for Drug Delivery Systems Evaluation	2+1	50	3
4	Core IV	PHT 2107	Targeted Drug Delivery	2+1	50	3
5	Elective I			2+1	50	3
6	Elective II			2+1	50	3
7	Project III	PHP 2503	Literature Review of the proposed research topic	2+1	50	3
			<b>TOTAL</b>	<b>14 + 7</b>	<b>350</b>	<b>21</b>

### **Semester III**

Laboratory project work on the title of the thesis registered for the degree of M. Pharm

### **Semester IV**

Laboratory project work on the title of the thesis registered for the degree of M. Pharm.  
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**Total credits**                      **21 (Sem I) + 21(Sem II) = 42**

#### **List of Electives**

1. PHT 2001-Biopharmaceutics and Pharmacokinetics
2. PHT 2002-Intellectual Property Rights and Patent Filing
3. PHT 2003-Advanced Biochemistry
4. PHT 2004-Drug Metabolism
5. PHT 2005-Molecular Biology
6. PHT 2006-Clinical Pharmacy
7. PHT 2007-Packing Technology
8. PHT 2008-Therapeutic Drug Monitoring
9. PHT 2009-Bulk Drug Technology and Process Chemistry
10. PHT 2010-Investigational Drug and Clinical Research
11. PHT 2011-Advance in receptor Pharmacology
12. PHT 2012-Medicinal Natural Products
13. PHT 2013-Advanced Pharmacology
14. PHT 2014-Chiral Synthesis
15. PHT 2015-Design of Enzyme Inhibitors
16. PHT 2016-Quality assurance and Validation
17. PHT 2104- Advanced Instrumental techniques for Material Characterization

**Core subject of one branch can be offered as elective subjects for students of other branches.**