

4-Year B.Tech. Pharmacy – Course Structure (Applicable from the year 2013-14 and onward)

SEMESTER 1

Course Code	Course Name	Contact hrs (L--T--P)	Credits
BL101	Biology	3--1--0	11
CY101	Chemistry – I	2--1--2	10
PHY102	Physics – II: Introduction to Engineering Electromagnetics	3--1--2	13
CMO103	Engineering Thermodynamics	3--1--0	11
ME104	Engineering Drawing	1--0--3	6
ME105	Manufacturing Practice – I	0--0--3	3
H101	Universal Human Values – I: Self and Family	1--1--0	5
	Total	13--5--10	59
HL101	Basic English [#]	2--0--1	7
	Total	15--5--11	66
PE101/CP101	Elementary Physical Education/Creative Practice ^{##}	0--1--3	5

SEMESTER 2

Course Code	Course Name	Contact hrs (L--T--P)	Credits
MA101	Engineering Mathematics – I	3--1--0	11
CY103	Essentials of Biochemistry	3--0--2	11
PH101	Basics of Pharmaceutical Sciences	2--0--3	9
CSO101	Computer Programming	3--1--2	13
ME106	Manufacturing Practice – II	0--0--3	3
H103/H104/ H105/H106	(Development of Societies/History & Civilization)/(Philosophy/Education & Self)	2--1--0	8
	Total	13--3--10	55
PE101/CP101	Elementary Physical Education/Creative Practice [#]	0--1--3	5

SEMESTER 3

Course Code	Course Name	Contact hrs (L--T--P)	Credits
MO201	Materials Science	3--1--0	11
BO202	Human Physiology	3--0--0	9
MA202	Probability and Statistics	3--1--0	11
PH211	Physical Pharmaceutics	2--0--3	9
PH221	Pharmaceutical Chemistry	2--0--3	9
H103/H104/ H105/H106	(Development of Societies/History & Civilization)/(Philosophy/Education & Self)	2--1--0	8
	Total	15--3--6	57

SEMESTER 4

Course Code	Course Name	Contact hrs (L--T--P)	Credits
CMO103	Heat and Mass Transfer	3--1—0	11
PH222	Bioorganic and Medicinal Chemistry	2--0—3	9
PH231	General Pharmacology	3--0—2	11
PH241	General Pharmacognosy	2--0—3	9
PH251	Pharmaceutical Analysis	2--0—2	8
PH291	Exploratory Project	0--0—5	5
HL201	Universal Human Values - II: Self, Society and Family	1--2—0	5
	Total	13--3—15	58

SEMESTER 5

Course Code	Course Name	Contact hrs (L--T--P)	Credits
	Open Elective I*	3--0—0	9
BO301	Microbiology and Biotechnology	2--0—3	9
PH311	Pharmaceutical Technology	3--0—2	11
PH331	General Pharmacotherapeutics	3--0—0	9
PH341	Natural Drugs and Excipients	2--0—2	8
	Language & Management/Humanities Course	3--0—0	9
	Total	16--0—7	55
PH391	Stream Project (Hons.)	0--0—10	10
PE301	Advanced Physical Education	1--1—5	10

SEMESTER 6

Course Code	Course Name	Contact hrs (L--T--P)	Credits
	Open Elective II*	3--0—0	9
PH301	Pharmaceutical Jurisprudence	2--0—0	6
PH321	Chemistry of Synthetic Drugs	2--0—3	9
PH312/PH322/ PH332/PH342	Core/Bouquet Elective I# (1 out of 4 Courses)	3--0—2	11
PH392	Regular Stream Project	0--0—10	10
	Language & Management/Humanities Course	3--0—0	9
	Total	13--0-15	54

SEMESTER 7

Course Code	Course Name	Contact hrs (L--T--P)	Credits
	Open Elective III*	3--0--0	9
PH451	Pharmaceutical Instrumental Analysis	2--0--3	9
PH411/PH421/ PH432/PH441/ PH452	Core Elective II (1 out of 5 Courses)	3--0--0	9
PH511/PH521/PH531/PH541	Core Elective - III (1 out of 4 Courses)	3--0—0	9
PH401	Industrial Visit/Training	0--0--0	5
PH491	Regular Stream Project	0--0—10	10
	Language & Management/Humanities Course	3--0—0	9
	Total	14--0—13	60

