

# **B. PHARM COURSE CURRICULUM**

(2012-13 BATCH)

### SCHEME OF TEACHING, EVALUATION AND CREDITS

COURSE: B. PHARM (2012-13 Batch)

#### SEMESTER - I

			Tea	ching I	oad		Credit	·c			Max	imum M	arks Allo	otted		
				leek (F			llotte	-			Theory			Practica	I	
S. No.	Subject Name	Subject Code	L	Т	P	L	Т	Р	Total Credits	End Sem	Mid Sem#	СР	End Sem	PE	Int. Viva	Total Marks
1	Professional Communication	PY1101	3	1	0	3	1	0	4	40	30	30				100
2	Computer Applications	PY1102	3	0	3	3	0	1	4	40	30	30	40	30	30	200
3	Pharmaceutical Chemistry – I (Inorganic)	PY1103	3	0	3	3	0	1	4	40	30	30	40	30	30	200
4	Pharmaceutical Chemistry – II (Physical)	PY1104	3	0	3	3	0	1	4	40	30	30	40	30	30	200
5	Pharmaceutics – I (Introduction to Pharmaceutics)	PY1105	3	1	0	3	1	0	4	40	30	30	40	30	30	200
6	Remedial Mathematics*	PY1106	3	1	0	3	1	0	4*	40	30	30				100
7	Remedial Biology*	PY1107	3	0	3	3	0	1	4*	40	30	30	40	30	30	200
	Total								24*							1000 / 1100**

#### REMARKS

- \* Students from Medical stream will study Remedial Mathematics and those from non-Medical stream will study Remedial Biology
  \*\* Students studying Remedial Mathematics will have 1000 total marks / Students studying Remedial Biology will have 1100 total marks

#### SEMESTER - II

			Tea	ching I	l nad		Credit	·e			Max	imum M	arks Allo	tted		
				/eek (F			Allotte	-			Theory			Practica	l	1
S. No.	Subject Name	Subject Code	L	Т	Р	L	Т	Р	Total Credits	End Sem	Mid Sem#	СР	End Sem	PE	Int. Viva	Total Marks
1	Applied Mathematics and Biostatistics	PY2101	3	1	0	3	1	0	4	40	30	30				100
2	Human Anatomy, Physiology and Health Education	PY2102	3	0	3	3	0	1	4	40	30	30	40	30	30	200
3	Pharmaceutical Chemistry – III (Organic)	PY2103	3	0	3	3	0	1	4	40	30	30	40	30	30	200
4	Pharmaceutics – II (Physical Pharmacy)	PY2104	3	0	3	3	0	1	4	40	30	30	40	30	30	200
5	Pharmacognosy - I	PY2105	3	0	3	3	0	1	4	40	30	30	40	30	30	200
	Total								20							900

#### **REMARKS**

CP - Class Participation; PE - Progressive Evaluation

<sup>#</sup> Average of two tests

CP – Class Participation; PE – Progressive Evaluation

<sup>#</sup> Average of two tests

### SEMESTER - III

			Too	ching I	load	,	Credit				Max	imum M	arks Allo	tted		
				/eek (F		-	llotte	-			Theory			Practica		
S. No.	Subject Name	Subject Code	L	Т	Р	L	Т	Р	Total Credits	End Sem	Mid Sem#	СР	End Sem	PE	Int. Viva	Total Marks
1	Pharmaceutics – III (Unit Operations – I)	PY3101	3	0	3	3	0	1	4	40	30	30	40	30	30	200
2	Human Anatomy, Physiology and Health Education – II	PY3102	3	0	3	3	0	1	4	40	30	30	40	30	30	200
3	Pharmaceutical Chemistry – IV (Chemistry of Natural Products)	PY3103	3	0	3	3	0	1	4	40	30	30	40	30	30	200
4	Pharmaceutical Microbiology	PY3104	3	0	3	3	0	1	4	40	30	30	40	30	30	200
5	Pharmacognosy – II	PY3105	3	0	3	3	0	1	4	40	30	30	40	30	30	200
	Total								20							1000

#### REMARKS

#### **SEMESTER - IV**

			Tead	ching l	oad	(	Credit	s			Max	imum M	arks Allo	tted		
				/eek (F			llotte				Theory			Practica	l	
S. No.	Subject Name	Subject Code	L	Т	P	L	Т	Р	Total Credits	End Sem	Mid Sem#	СР	End Sem	PE	Int. Viva	Total Marks
1	Pathophysiology of Common Diseases	PY4101	3	1	0	3	1	0	4	40	30	30				100
2	Pharmaceutics – IV (Unit Operations – II)	PY4102	3	0	3	3	0	1	4	40	30	30	40	30	30	200
3	Pharmaceutical Chemistry – V (Biochemistry)	PY4103	3	0	3	3	0	1	4	40	30	30	40	30	30	200
4	Pharmaceutical Analysis – I	PY4104	3	0	3	3	0	1	4	40	30	30	40	30	30	200
5	Pharmaceutics – V (Dosage Form Design)	PY4105	3	0	3	3	0	1	4	40	30	30	40	30	30	200
	Total								20							900

#### REMARKS

<sup>#</sup> Average of two tests CP – Class Participation; PE – Progressive Evaluation

<sup>#</sup> Average of two tests CP – Class Participation; PE – Progressive Evaluation

#### SEMESTER - V

			Tea	ching l	l nad		Credit	·c			Max	imum M	arks Allo	tted		
				leek (F			Allotte	-			Theory			Practica	I	
S. No.	Subject Name	Subject Code	L	Т	P	L	Т	Р	Total Credits	End Sem	Mid Sem#	СР	End Sem	PE	Int. Viva	Total Marks
1	Pharmaceutical Biotechnology	PY5101	3	0	3	3	0	1	4	40	30	30	40	30	30	200
2	Hospital Pharmacy	PY5102	3	0	0	3	0	0	3	40	30	30				100
3	Medicinal Chemistry – I	PY5103	3	0	3	3	0	1	4	40	30	30	40	30	30	200
4	Pharmacology – I*	PY5104	3	0	3	3	0	1	4	40	30	30	40	30	30	200
5	Pharmacognosy - III	PY5105	3	0	3	3	0	1	4	40	30	30	40	30	30	200
6	Collection and Preservation of Medicinal Plants##	BP-356														
	Total								19							900

#### REMARKS

CP – Class Participation; PE – Progressive Evaluation

## PY5106: During the semester break, the students will collect medicinal plants, prepare herbarium sheets and write monographs of plants. This will be evaluated in VIII Semester

#### SEMESTER - VI

			Tead	ching l	nad		Credit	·e			Max	imum M	arks Allo	tted		
				eek (H			Allotte	-			Theory			Practica	I	
S. No.	Subject Name	Subject Code	L	Т	Р	L	Т	Р	Total Credits	End Sem	Mid Sem#	СР	End Sem	PE	Int. Viva	Total Marks
1	Pharmaceutical Jurisprudence and Intellectual Property Rights	PY6101	3	0	0	3	0	0	3	40	30	30				100
2	Pharmaceutical Industrial Management	PY6102	3	0	0	3	0	0	3	40	30	30				100
3	Medicinal Chemistry – II	PY6103	3	0	3	3	0	1	4	40	30	30	40	30	30	200
4	Pharmacology – II*	PY6104	3	0	3	3	0	1	4	40	30	30	40	30	30	200
5	Pharmaceutical Technology – I	PY6105	3	0	3	3	0	1	4	40	30	30	40	30	30	200
6	Industrial Training**	PY6106														
	Total								18						1	800

#### REMARKS

<sup>#</sup> Average of two tests

<sup>\*</sup> PY5104 Practical:Software based experiments should be used instead of actual animal experiments wherever possible

<sup>#</sup> Average of two tests

CP – Class Participation; PE – Progressive Evaluation

<sup>\*</sup> PY6104 Practical: Software based experiments should be used instead of actual animal experiments wherever possible

<sup>\*\*</sup>Industrial Training: The total duration of industrial training is 2 Months / 400 Hrs. To be attended at the end of 6th and 7th Semesters, in two phases, during end-semester vacations; At the end of 8th Semester, the students have to submit a report and make a presentation, which will be evaluated by the external examiner.

#### SEMESTER - VII

			Tea	ching l	hen l		Credit	e			Max	imum M	arks Allo	tted		
				leek (F			Allotte	-			Theory			Practica	I	
S. No.	Subject Name	Subject Code	L	T	P	L	Т	Р	Total Credits	End Sem	Mid Sem#	СР	End Sem	PE	Int. Viva	Total Marks
1	Medicinal Chemistry – III	PY7101	3	0	3	3	0	1	4	40	30	30	40	30	30	200
2	Pharmacology – III*	PY7102	3	0	3	3	0	1	4	40	30	30	40	30	30	200
3	Pharmaceutical Technology –	PY7103	3	0	3	3	0	1	4	40	30	30	40	30	30	200
4	Biopharmaceutics and Pharmacokinetics	PY7104	3	0	3	3	0	1	4	40	30	30	40	30	30	200
5	Herbal Drug Technology	PY7105	3	0	3	3	0	1	4	40	30	30	40	30	30	200
6	Industrial Training Evaluation**	PY6106							4				50		50	100
	Total								24							1100

#### REMARKS

CP – Class Participation; PE – Progressive Evaluation

#### SEMESTER - VIII

			Tea	ching I	l nad	(	Credit	9			Max	imum M	arks Allo	tted		
				/eek (F			llotte	-			Theory			Practica	I	
S. No.	Subject Name	Subject Code	L	Т	Р	L	Т	Р	Total Credits	End Sem	Mid Sem#	СР	End Sem	PE	Int. Viva	Total Marks
1	Instrumental Methods of Analysis	PY8101	3	0	3	3	0	1	4	40	30	30	40	30	30	200
2	Novel Drug Delivery Systems	PY8102	3	0	3	3	0	1	4	40	30	30	40	30	30	200
3	Quality Control and Quality Assurance	PY8103	3	0	3	3	0	1	4	40	30	30	40	30	30	200
4	Industrial Pharmacognosy	PY8104	3	0	3	3	0	1	4	40	30	30	40	30	30	200
5	Clinical Pharmacy	PY8105	3	0	0	3	0	0	3	40	30	30				100
6	Collection and Preservation of Medicinal Plants	PY5106						4	4				50		50	100
	Total								23							1000

#### **REMARKS**

# PROJECT BASED LEARNING / ASSIGNMENTS FOR CONTINUOUS EVALUATION

Project based learning will be evaluated after submission of project report and successful presentation of the same before duly constituted committee. Along with project based learning, assignments may also be given for continuous evaluation of the student. Such assignments may be based on Multiple Choice Questions / Quizzes / Class tests, which are evaluated and the answer sheets will be preserved along with the marks list.

<sup>#</sup> Average of two tests

<sup>\*</sup> PY7102 Practical:Software based experiments should be used instead of actual animal experiments wherever possible

<sup>\*\*</sup>Industrial Training Evaluation: Industrial training evaluation will be based on the report submitted, internal viva and presentations made by the students in the end semester examination.

<sup>#</sup> Average of two tests

CP - Class Participation; PE - Progressive Evaluation