



**UNIVERSITY**

GWALIOR • MP • INDIA

“ CELEBRATING DREAMS ”

# **B. PHARM COURSE CURRICULUM**

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(2014-15 BATCH)

## SCHEME OF TEACHING, EVALUATION AND CREDITS

### COURSE: B. PHARM (2014-15 Batch)

#### SEMESTER – I

S. No.	Subject Name	Subject Code	Teaching Load / Week (Hrs)			Credits Allotted			Total Credits	Maximum Marks Allotted						Total Marks
			L	T	P	L	T	P		Theory			Practical			
										End Sem	Mid Sem <sup>#</sup>	CP	End Sem	PE	Int. Viva	
1	Pharmaceutical Inorganic Chemistry	BP-111	3	0	3	3	0	1	4	80	10	10	60	20	20	200
2	Pharmaceutical Organic Chemistry – I	BP-112	3	0	3	3	0	1	4	80	10	10	60	20	20	200
3	Anatomy, Physiology and Health Education – I	BP-113	3	0	3	3	0	1	4	80	10	10	60	20	20	200
4	Pharmacognosy – I	BP-114	3	0	3	3	0	1	4	80	10	10	60	20	20	200
5	Professional Communication	BP-115	3	0	0	3	0	0	3	80	10	10	---	---	---	100
6	Remedial Mathematics*	BP-116	3	0	0	3	0	0	3*	80	10	10	---	---	---	100
7	Remedial Biology*	BP-117	3	0	3	3	0	1	4*	80	10	10	60	20	20	200
<b>Total</b>									<b>22 / 23*</b>							<b>1000 / 1100**</b>

**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 and 22 credits / Students studying Remedial Biology will have 1100 total marks and 23 credits

# Average of two tests

CP – Class Participation; PE – Progressive Evaluation

#### SEMESTER – II

S. No.	Subject Name	Subject Code	Teaching Load / Week (Hrs)			Credits Allotted			Total Credits	Maximum Marks Allotted						Total Marks
			L	T	P	L	T	P		Theory			Practical			
										End Sem	Mid Sem <sup>#</sup>	CP	End Sem	PE	Int. Viva	
1	Pharmaceutical Organic Chemistry – II	BP-121	3	0	3	3	0	1	4	80	10	10	60	20	20	200
2	Anatomy, Physiology and Health Education – II	BP-122	3	0	3	3	0	1	4	80	10	10	60	20	20	200
3	Introductory Pharmaceutics	BP-123	3	0	3	3	0	1	4	80	10	10	60	20	20	200
4	Hospital Pharmacy	BP-124	3	0	0	3	0	0	3	80	10	10	---	---	---	100
5	Pharmacognosy – II	BP-125	3	0	3	3	0	1	4	80	10	10	60	20	20	200
6	Environmental Study and Disaster Management	BP-126	3	0	0	3	0	0	3	80	10	10	---	---	---	100
<b>Total</b>									<b>22</b>							<b>1000</b>

**REMARKS**

# Average of two tests

CP – Class Participation; PE – Progressive Evaluation

### SEMESTER – III

S. No.	Subject Name	Subject Code	Teaching Load / Week (Hrs)			Credits Allotted			Total Credits	Maximum Marks Allotted						Total Marks
			L	T	P	L	T	P		Theory			Practical			
										End Sem	Mid Sem <sup>#</sup>	CP	End Sem	PE	Int. Viva	
1	Pharmaceutical Analysis – I	BP-231	3	0	3	3	0	1	4	80	10	10	60	20	20	200
2	Unit Operations – I	BP-232	3	0	3	3	0	1	4	80	10	10	60	20	20	200
3	Physical Pharmacy – I	BP-233	3	0	3	3	0	1	4	80	10	10	60	20	20	200
4	Pharmacognosy – III	BP-234	3	0	3	3	0	1	4	80	10	10	60	20	20	200
5	Pharmaceutical Statistics	BP-235	3	0	0	3	0	0	3	80	10	10	---	---	---	100
6	Computer Science and Applications	BP-236	3	0	3	3	0	1	4	80	10	10	60	20	20	200
	<b>Total</b>								<b>23</b>							<b>1100</b>

**REMARKS**

# Average of two tests

CP – Class Participation; PE – Progressive Evaluation

### SEMESTER – IV

S. No.	Subject Name	Subject Code	Teaching Load / Week (Hrs)			Credits Allotted			Total Credits	Maximum Marks Allotted						Total Marks
			L	T	P	L	T	P		Theory			Practical			
										End Sem	Mid Sem <sup>#</sup>	CP	End Sem	PE	Int. Viva	
1	Pharmaceutical Analysis – II	BP-241	3	0	3	3	0	1	4	80	10	10	60	20	20	200
2	Pharmaceutical Microbiology	BP-242	3	0	3	3	0	1	4	80	10	10	60	20	20	200
3	Physical Pharmacy – II	BP-243	3	0	3	3	0	1	4	80	10	10	60	20	20	200
4	Unit Operations – II	BP-244	3	0	3	3	0	1	4	80	10	10	60	20	20	200
5	Pharmacognosy – IV	BP-245	3	0	3	3	0	1	4	80	10	10	60	20	20	200
6	Pathophysiology of Common Diseases	BP-246	3	0	0	3	0	0	3	80	10	10	---	---	---	100
	<b>Total</b>								<b>23</b>							<b>1100</b>

**REMARKS**

# Average of two tests

CP – Class Participation; PE – Progressive Evaluation

## SEMESTER – V

S. No.	Subject Name	Subject Code	Teaching Load / Week (Hrs)			Credits Allotted			Total Credits	Maximum Marks Allotted						Total Marks
			L	T	P	L	T	P		Theory			Practical			
										End Sem	Mid Sem#	CP	End Sem	PE	Int. Viva	
1	Biochemistry	BP-351	3	0	3	3	0	1	4	80	10	10	60	20	20	200
2	Medicinal Chemistry – I	BP-352	3	0	3	3	0	1	4	80	10	10	60	20	20	200
3	Pharmacology – I *	BP-353*	3	0	3	3	0	1	4	80	10	10	60	20	20	200
4	Pharmaceutical Biotechnology	BP-354	3	0	3	3	0	1	4	80	10	10	60	20	20	200
5	Pharmaceutical Industrial Management	BP-355	3	0	0	3	0	0	3	80	10	10	---	---	---	100
6	Collection and Preservation of Medicinal Plants##	BP-356	---	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>									<b>19</b>							<b>900</b>

### REMARKS

# Average of two tests

CP – Class Participation; PE – Progressive Evaluation

\* **BP-353 Practical:** Software based experiments should be used instead of actual animal experiments wherever possible

##BP-356: 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

S. No.	Subject Name	Subject Code	Teaching Load / Week (Hrs)			Credits Allotted			Total Credits	Maximum Marks Allotted						Total Marks
			L	T	P	L	T	P		Theory			Practical			
										End Sem	Mid Sem#	CP	End Sem	PE	Int. Viva	
1	Medicinal Chemistry – II	BP-361	3	0	3	3	0	1	4	80	10	10	60	20	20	200
2	Chemistry of Natural Products	BP-362	3	0	3	3	0	1	4	80	10	10	60	20	20	200
3	Pharmacology – II*	BP-363*	3	0	3	3	0	1	4	80	10	10	60	20	20	200
4	Pharmaceutical Technology – I	BP-364	3	0	3	3	0	1	4	80	10	10	60	20	20	200
5	Pharmaceutical Jurisprudence	BP-365	3	0	0	3	0	0	3	80	10	10	---	---	---	100
6	Industrial Training**	BP-366	---	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>									<b>19</b>							<b>900</b>

### REMARKS

# Average of two tests

CP – Class Participation; PE – Progressive Evaluation

\* **BP-363 Practical:** Software based experiments should be used instead of actual animal experiments wherever possible

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

## SEMESTER – VII

S. No.	Subject Name	Subject Code	Teaching Load / Week (Hrs)			Credits Allotted			Total Credits	Maximum Marks Allotted						Total Marks
			L	T	P	L	T	P		Theory			Practical			
										End Sem	Mid Sem#	CP	End Sem	PE	Int. Viva	
1	Medicinal Chemistry – III	BP-471	3	0	3	3	0	1	4	80	10	10	60	20	20	200
2	Pharmacology – III*	BP-472*	3	0	3	3	0	1	4	80	10	10	60	20	20	200
3	Pharmaceutical Technology – II	BP-473	3	0	3	3	0	1	4	80	10	10	60	20	20	200
4	Biopharmaceutics and Pharmacokinetics	BP-474	3	0	3	3	0	1	4	80	10	10	60	20	20	200
5	Herbal Drug Technology	BP-475	3	0	3	3	0	1	4	80	10	10	60	20	20	200
6	Industrial Training Evaluation**	BP-366	---	---	---	---	---	---	4	---	---	---	60	-	20	100
<b>Total</b>									<b>24</b>							<b>1100</b>

### REMARKS

# Average of two tests

CP – Class Participation; PE – Progressive Evaluation

\* **BP-472Practical:** Software based experiments should be used instead of actual animal experiments wherever possible

\*\***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

## SEMESTER – VIII

S. No.	Subject Name	Subject Code	Teaching Load / Week (Hrs)			Credits Allotted			Total Credits	Maximum Marks Allotted						Total Marks
			L	T	P	L	T	P		Theory			Practical			
										End Sem	Mid Sem#	CP	End Sem	PE	Int. Viva	
1	Instrumental Methods of Analysis	BP-481	3	0	3	3	0	1	4	80	10	10	60	20	20	200
2	Novel Drug Delivery Systems	BP-482	3	0	3	3	0	1	4	80	10	10	60	20	20	200
3	Quality Control and Quality Assurance	BP-483	3	0	3	3	0	1	4	80	10	10	60	20	20	200
4	Industrial Pharmacognosy	BP-484	3	0	3	3	0	1	4	80	10	10	60	20	20	200
5	Clinical Pharmacy	BP-485	3	0	0	3	0	0	3	80	10	10	---	---	---	100
6	Collection and Preservation of Medicinal Plants	BP-356	---	---	---	---	---	4	4	---	---	---	60	---	20	100
<b>Total</b>									<b>23</b>							<b>1000</b>

### REMARKS

# Average of two tests

CP – Class Participation; PE – Progressive Evaluation

### 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.