



## **K. K. WAGH COLLEGE OF PHARMACY**

**(B. Pharmacy & D. Pharmacy)**

**Hirabai Haridas Vidyanagari, Amrutdham, Panchavati, Nashik - 422 003. (Maharashtra) India.**

☎ : 0253 - 2221121, 2517003, 2510262 Web : [www.pharmacy.kkwagh.edu.in](http://www.pharmacy.kkwagh.edu.in)

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### **2.6.2**

**Attainment of POs and COs are evaluated**



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## 2.6.2 Attainment of POs and COs are evaluated.

Sr. No.	Content	Year
A	Process for Attainment of POs and COs	2017-18 to 2020-21
B	CO-PO Mapping	2017-18 to 2020-21
C	Evaluation of CO-PO	2017-18 to 2020-21



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**2.6.2**

**A -PROCESS FOR ATTAINMENT OF  
POS AND COS**



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## Process for Attainment of POs and COs

The Pharmacy graduates are required to learn and acquire in-depth knowledge, necessary skills to take up various professional positions in the pharmaceutical sector. For practicing the pharmacy professional position the student should be trained both in theory as well in practical. The curriculum designed by Pharmacy Council of India is mainly focusing on skill development along with knowledge, on an average 70-75% of the curriculum consists of practicals which help in effective attainment of COs and POs.

The College has established a process by which the programme outcomes are measured utilizing both the direct and indirect methods.

### Direct Assessment and evaluation methods:

The assessment method is the general type of tool to assess the Student Course Outcomes.

The direct assessment and evaluation methods adopted are as follows:

1. Internal and External Written Examination (Long and short answer questions)
2. Assignments (Multiple Choice Questions, Open Book Test, Close Book Test, Presentation and cognitive skill based).
3. Practical Examination (Lab report, Lab work)
4. Project Work (Literature review, Research)

### Indirect Assessment and evaluation method:

The indirect assessment and evaluation method adopted on the basis of Program Exit survey.

### Attainment Criteria:

While deciding on overall attainment level 80% weightage is given to direct assessment and 20% weightage to indirect assessment through various surveys mentioned above. Thus the final attainment of the program outcomes from the respective course is calculated.

The Summary of attainment of COs for each course along with its mapping with POs, is recorded in a document. Institute ensures attainment of graduate attributes by reviewing the teaching learning process periodically.



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**2.6.2**

**B - CO-PO MAPPING**



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## CO-PO Mapping

First Year B. Pharm. Semester-I											
Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Human Anatomy and Physiology-I Theory	3	1	1	3	2	2.25	2	2.75	2	2	3
Pharmaceutical Analysis- I Theory	3	2.67	2	1.8	2	1	-	2	1	1	3
Pharmaceutics – I Theory	3	2.3	1.8	1.5	1.7	1.7	1	2	1.4	1	2.8
Pharmaceutical Inorganic Chemistry Theory	3	2	2	1.7	1	1	2.6	2	1.8	1.6	3
Communication skills – Theory	-	1	2	2.3	2.4	1.4	1.5	3	2	2	2
Remedial Biology- Theory	3	1	1	-	-	1	1	3	1.5	2	3
Remedial Mathematics Theory	3	1.2	2	3	2.4	1	1	-	1	2	3
Human Anatomy and Physiology Practical	3	3	3	3	1	1	1	2	2	1	3
Pharmaceutical Analysis- I Practical	3	2.4	2.6	1.55	1	1	1	1.5	1.2	1	3
Pharmaceutics- I Practical	3	-	-	2	-	1	-	2	1	-	3
Pharmaceutical Inorganic Chemistry Practical	3	3	2.25	2	2	1.25	2.6	2.2	1.75	2.4	3
Communication skills Practical	-	2.2	2	2.2	2.4	2	1	2.8	1	-	1.8
Remedial Biology Practical	3	3	3	1	2.25	-	1.5	3	2	-	3
First Year B. Pharm. Semester-II											
Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Human Anatomy and Physiology- II Theory	3	1	1	-	1	2	2	1	-	-	3
Pharmaceutical Organic Chemistry- I Theory	3	2	2	2	-	1	1	-	2	-	3
Biochemistry Theory	3	2	1.5	1.33	1	2	1	2	1	1	3
Pathophysiology Theory	3	-	-	-	-	1	-	-	2	2	3
Computer Applications in Pharmacy Theory	3	2	1.75	3	1.4	1	1	1.6	-	-	2
Environmental Sciences Theory	-	2.25	2.5	1.75	1	1	1	1	1	3	3
Human Anatomy and Physiology- II Practical	3	2	2	2.25	1.75		1.5	3	2.25		3
Pharmaceutical Organic Chemistry- I Practical	3	2.25	1.6	2	-	1	1	-	2	-	3
Biochemistry Practical	3	1	1.6	1.8	1	1	1	0	1	1	3
Computer Applications in Pharmacy Practical	3	1.8	1.67	3	2	2	1	2.4	1	1	3



  
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Second Year B. Pharm. Semester-III											
Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pharmaceutical Organic Chemistry-II Theory	3	-	2	-	-	1	1	1	2	-	3
Physical Pharmaceutics-I Theory	3	2	1.5	1.3	-	1	1	1	2	1	3
Pharmaceutical Microbiology Theory	3	1.2	1.8	2.8	1	1.6	1.8	1	1.2	1.6	1.2
Pharmaceutical Engineering Theory	3	2.4	3	2.4	1.2	1.2	1.6	1	1	1.2	1
Pharmaceutical Organic Chemistry-II Practical	3	2	1.8	2.5	2	1.25	1.2	2	2	1.6	3
Physical Pharmaceutics-I Practical	3	2.6	2.2	1.67	-	2	2.2	2.2	1.4	2	3
Pharmaceutical Microbiology Practical	3	2	2	2.4	2	1.4	1.75	1	1	1	1.25
Pharmaceutical Engineering Practical	3	2	3	2	1	1	1	1	1	1	3
Second Year B. Pharm. Semester-IV											
Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pharmaceutical Organic Chemistry- III Theory	3	-	2	-	-	1	1	1	2	-	3
Medicinal Chemistry- I Theory	3	-	2	2	-	1	1	1	2	-	3
Physical Pharmaceutics-II Theory	3	2.2	1.8	2	-	1	1	1	1.8	1	3
Pharmacology- I Theory	3	-	1	2	-	2	1	1	-	-	3
Pharmacognosy and Phytochemistry- I Theory	3	2.4	2.4	2	1.2	2	1.7	2.4	2.8	2	3
Medicinal Chemistry- I Practical	3	2	-	2	-	2	1	1	2	2	3
Physical Pharmaceutics-II Practical	3	3	2.2	1.7	-	2	2	2	1	2	3
Pharmacology-I Practical	3	-	2	3	-	1	1	-	1	2	3
Pharmacognosy and Phytochemistry-I Practical	3	2.6	2.8	2.2	2	2	1	1.4	1.6	2.8	3



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Third Year B. Pharm. Semester-V											
Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Medicinal Chemistry-II Theory	3	-	2	2	-	1	1	1	2	-	3
Industrial Pharmacy-I Theory	3	2.8	2.8	2.4	2	1.2	1	1.6	2.2	2.2	3
Pharmacology-II Theory	3	-	2	-	-	2	-	-	2	-	3
Pharmacognosy and Phytochemistry-II Theory	2.6	2.2	2	2.25	1	2.6	1.4	1.8	2	1.67	2.4
Pharmaceutical Jurisprudence Theory	3	2	1.67	3	2.2	3	3	-	2.2	1	3
Industrial Pharmacy-I Practical	3	2.2	2.8	2.8	1	2	1	2	3	-	3
Pharmacology-II Practical	3	-	2	-	-	2	-	-	-	-	3
Pharmacognosy and Phytochemistry-II Practical	3	2.8	2.8	2.4	2	1.2	1	1.6	2.2	2.2	3
Third Year B. Pharm. Semester-VI											
Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Medicinal Chemistry- III Theory	3	-	2	2	-	1	1	1	2	-	3
Pharmacology- III Theory	3	1	1	2	1	2	-	1	2	2	3
Herbal Drug Technology-Theory	2.6	2.2	2	2.25	1	2.6	1.4	1.8	2	1.67	2.4
Biopharmaceutics and Pharmacokinetics – Theory	3	1.4	2	2	1.2	1	1.8	1	1.6	2	3
Pharmaceutical Biotechnology – Theory	3	1.6	1.4	1.2	-	1	1.4	1	1	2	3
Quality Assurance – Theory	3	2	3	2.5	2.3	2	3	2.3	2	3	3
Medicinal Chemistry-III – Practical	3	2	2.4	2.2	1	1	1	1	1	1	3
Pharmacology- III Practical	3	1.6	1.8	2	1	1.8	3	2	1	1.5	3
Herbal Drug Technology – Practical	3	2.8	2	3	1.75	1	1	1	1	1.2	3



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<b>Final Year B. Pharm. Semester-VII</b>											
<b>Subjects</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>
Instrumental Methods of Analysis Theory	3	-	2.4	2.8	2	2	-	-	2	-	3
Industrial Pharmacy-II Theory	3	2	2.5	1	1.75	1.8	3	3	1.2	1	3
Pharmacy Practice – Theory	3	-	2	2	-	1	1	1	2	-	3
Novel Drug Delivery System – Theory	3	-	-	3	-	-	-	1.6	2.2	-	3
Instrumental Methods of Analysis – Practical	3	3	3	3	2	3	3	-	3	-	3
Practice School	3	3	3	2.8	2	1.2	2	2.5	1.67	2	3
<b>Final Year B. Pharm. Semester-VIII</b>											
<b>Subjects</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>
Biostatistics and Research Methodology- Theory	3	1.8	1.75	2.25	1.67	2	3	1.75	3	1.75	3
Social and Preventive Pharmacy - Theory	3	2	2	2	1.5	1.5	3	3	3	1.4	3
Pharmacovigilance-Theory	3	-	2	2	-	3	-	2	3	-	3
Advanced Instrumentation Techniques-Theory	3	2	1.8	2	1.8	1	1	2	2	1	3
Project Work	3	2.8	2.4	3	1.8	1.6	2.4	1.8	1.8	2	2.2
<b>Average POs</b>	2.99	2.09	2.07	2.20	1.59	1.52	1.51	1.71	1.75	1.65	2.84



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**2.6.2**

**C - EVALUATION OF CO-PO**



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**2.6.2**

**C1- EVALUATION OF CO-PO FOR  
BATCH GRADUATED IN 2021**



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## Evaluation of CO-PO (Direct attainment) Academic Year 2017 to 2021 (Graduated in 2021)

Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Human Anatomy and Physiology-I Theory	3	1	1	3	2	2.25	2	2.75	2	2	3
Pharmaceutical Analysis- I Theory	2.4	2.13	1.61	1.44	1.6	0.8	-	1.6	0.8	0.8	2.4
Pharmaceutics – I Theory	2.4	1.84	1.44	1.2	1.36	1.36	0.8	1.6	1.12	0.8	1.44
Pharmaceutical Inorganic Chemistry Theory	3	2	2	1.7	1	1	2.6	2	1.8	1.6	3
Communication skills – Theory	-	1	2	2.3	2.4	1.4	1.5	3	2	2	2
Remedial Biology- Theory	3	1	1	-	-	1	1	3	1.5	2	3
Remedial Mathematics Theory	3	1.2	2	3	2.4	1	1	-	1	2	3
Human Anatomy and Physiology Practical	3	3	3	3	1	1	1	2	2	1	3
Pharmaceutical Analysis- I Practical	3	2.4	2.6	1.55	1	1	1	1.5	1.2	1	3
Pharmaceutics- I Practical	3	-	-	2	-	1	-	2	1	-	3
Pharmaceutical Inorganic Chemistry Practical	3	3	2.25	2	2	1.25	2.6	2.2	1.75	2.4	3
Communication skills Practical	-	2.2	2	2.2	2.4	2	1	2.8	1	-	1.8
Remedial Biology Practical	3	3	3	1	2.25	-	1.5	3	2	-	3
Human Anatomy and Physiology- II Theory	2.7	0.9	0.9	-	0.9	1.8	1.8	0.9	-	-	2.7
Pharmaceutical Organic Chemistry- I Theory	2.4	1.6	1.6	1.6	-	0.8	0.8	-	1.6	-	2.4
Biochemistry Theory	3	2	1.5	1.33	1	2	1	2	1	1	3
Pathophysiology Theory	2.7	-	-	-	-	0.9	-	-	1.8	1.8	2.7
Computer Applications in Pharmacy Theory	3	2	1.75	3	1.4	1	1	1.6	-	-	2
Environmental Sciences Theory	-	2.25	2.5	1.75	1	1	1	1	1	3	3
Human Anatomy and Physiology- II Practical	3	2	2	2.25	1.75		1.5	3	2.25		3
Pharmaceutical Organic Chemistry- I Practical	3	2.25	1.6	2	-	1	1	-	2	-	3
Biochemistry Practical	3	1	1.6	1.8	1	1	1	0	1	1	3
Computer Applications in Pharmacy Practical	3	1.8	1.667	3	2	2	1	2.4	1	1	3



  
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Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pharmaceutical Organic Chemistry-II Theory	3	-	2	-	-	1	1	1	2	-	3
Physical Pharmaceutics-I Theory	2.7	1.8	1.35	1.17	-	0.9	0.9	0.9	1.8	0.9	2.7
Pharmaceutical Microbiology Theory	3	1.2	1.8	2.8	1	1.6	1.8	1	1.2	1.6	1.2
Pharmaceutical Engineering Theory	3	2.4	3	2.4	1.2	1.2	1.6	1	1	1.2	1
Pharmaceutical Organic Chemistry-II Practical	3	2	1.8	2.5	2	1.25	1.2	2	2	1.6	3
Physical Pharmaceutics-I Practical	3	2.6	2.2	1.67	-	2	2.2	2.2	1.4	2	3
Pharmaceutical Microbiology Practical	3	2	2	2.4	2	1.4	1.75	1	1	1	1.25
Pharmaceutical Engineering Practical	3	2	3	2	1	1	1	1	1	1	3
Pharmaceutical Organic Chemistry- III Theory	3	-	2	-	-	1	1	1	2	-	3
Medicinal Chemistry- I Theory	3	-	2	2	-	1	1	1	2	-	3
Physical Pharmaceutics-II Theory	3	2.2	1.8	2	-	1	1	1	1.8	1	3
Pharmacology- I Theory	3	-	1	2	-	2	1	1	-	-	3
Pharmacognosy and Phytochemistry- I Theory	3	2.4	2.4	2	1.2	2	1.7	2.4	2.8	2	3
Medicinal Chemistry- I Practical	3	2	-	2	-	2	1	1	2	2	3
Physical Pharmaceutics-II Practical	3	3	2.2	1.7	-	2	2	2	1	2	3
Pharmacology-I Practical	3	-	2	3	-	1	1	-	1	2	3
Pharmacognosy and Phytochemistry-I Practical	3	2.6	2.8	2.2	2	2	1	1.4	1.6	2.8	3



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Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Medicinal Chemistry-II Theory	3	-	2	2	-	1	1	1	2	-	3
Industrial Pharmacy-I Theory	3	2.8	2.8	2.4	2	1.2	1	1.6	2.2	2.2	3
Pharmacology-II Theory	3	-	2	-	-	2	-	-	2	-	3
Pharmacognosy and Phytochemistry-II Theory	2.6	2.2	2	2.25	1	2.6	1.4	1.8	2	1.67	2.4
Pharmaceutical Jurisprudence Theory	3	2	1.67	3	2.2	3	3	-	2.2	1	3
Industrial Pharmacy-I Practical	3	2.2	2.8	2.8	1	2	1	2	3	-	3
Pharmacology-II Practical	3	-	2	-	-	2	-	-	-	-	3
Pharmacognosy and Phytochemistry-II Practical	3	2.8	2.8	2.4	2	1.2	1	1.6	2.2	2.2	3
Medicinal Chemistry- III Theory	3	-	2	2	-	1	1	1	2	-	3
Pharmacology- III Theory	3	1	1	2	1	2	-	1	2	2	3
Herbal Drug Technology-Theory	2.6	2.2	2	2.25	1	2.6	1.4	1.8	2	1.67	2.4
Biopharmaceutics and Pharmacokinetics – Theory	3	1.4	2	2	1.2	1	1.8	1	1.6	2	3
Pharmaceutical Biotechnology – Theory	3	1.6	1.4	1.2	-	1	1.4	1	1	2	3
Quality Assurance – Theory	3	2	3	2.5	2.3	2	3	2.3	2	3	3
Medicinal Chemistry-III – Practical	3	2	2.4	2.2	1	1	1	1	1	1	3
Pharmacology- III Practical	3	1.6	1.8	2	1	1.8	3	2	1	1.5	3
Herbal Drug Technology – Practical	3	2.8	2	3	1.75	1	1	1	1	1.2	3



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Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Instrumental Methods of Analysis Theory	3	-	2.4	2.8	2	2	-	-	2	-	3
Industrial Pharmacy-II Theory	3	2	2.5	1	1.75	1.8	3	3	1.2	1	3
Pharmacy Practice – Theory	3	-	2	2	-	1	1	1	2	-	3
Novel Drug Delivery System – Theory	3	-	-	3	-	-	-	1.6	2.2	-	3
Instrumental Methods of Analysis – Practical	3	3	3	3	2	3	3	-	3	-	3
Practice School	3	3	3	2.8	2	1.2	2	2.5	1.67	2	3
Biostatistics and Research Methodology- Theory	3	1.8	1.75	2.25	1.67	2	3	1.75	3	1.75	3
Social and Preventive Pharmacy -Theory	3	2	2	2	1.5	1.5	3	3	3	1.4	3
Pharmacovigilance-Theory	3	-	2	2	-	3	-	2	3	-	3
Advanced Instrumentation Techniques-Theory	3	2	2	2	1	1	-	2	2	-	3
Project Work	3	2.8	2.4	3	1.8	1.6	2.4	1.8	1.8	2	2.2
<b>Average of all POs</b>	2.95	2.06	2.05	2.18	1.56	1.50	1.51	1.69	1.73	1.65	2.79
<b>Direct Attainment</b>	2.36	1.64	1.64	1.74	1.24	1.20	1.21	1.35	1.38	1.32	2.23
<b>Indirect Attainment</b>	0.59	0.54	0.59	0.51	0.46	0.55	0.57	0.55	0.56	0.55	0.59
<b>Total Attainment</b>	2.94	2.18	2.23	2.25	1.70	1.75	1.78	1.90	1.94	1.87	2.82



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### **C2- EVALUATION OF CO-PO FOR BATCH GRADUATED IN 2022**



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## Evaluation of CO-PO (Direct attainment) Academic Year 2018 to 2022 (Graduated in 2022)

Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Human Anatomy and Physiology-I Theory	3	1	1	3	2	2.25	2	2.75	2	2	3
Pharmaceutical Analysis- I Theory	2.4	2.1	1.6	1.8	1.6	0.8	-	1.6	0.8	0.8	2.4
Pharmaceutics – I Theory	3	2.3	1.8	1.5	1.7	1.7	1	2	1.4	1	2.8
Pharmaceutical Inorganic Chemistry Theory	3	2	2	1.7	1	1	2.6	2	1.8	1.6	3
Communication skills – Theory	-	1	2	2.3	2.4	1.4	1.5	3	2	2	2
Remedial Biology- Theory	3	1	1	-	-	1	1	3	1.5	2	3
Remedial Mathematics Theory	2.4	1	1.6	2.4	1.9	0.8	0.8	-	0.8	1.6	2.4
Human Anatomy and Physiology Practical	3	3	3	3	1	1	1	2	2	1	3
Pharmaceutical Analysis- I Practical	3	2.4	2.6	1.55	1	1	1	1.5	1.2	1	3
Pharmaceutics- I Practical	3	-	-	2	-	1	-	2	1	-	3
Pharmaceutical Inorganic Chemistry Practical	3	3	2.25	2	2	1.25	2.6	2.2	1.75	2.4	3
Communication skills Practical	-	2.2	2	2.2	2.4	2	1	2.8	1	-	1.8
Remedial Biology Practical	3	3	3	1	2.25	-	1.5	3	2	-	3
Human Anatomy and Physiology- II Theory	2.7	0.6	0.9	-	0.9	1.8	1.8	0.9	-	-	2.7
Pharmaceutical Organic Chemistry- I Theory	2.4	1.6	1.6	1.6	-	0.8	0.8	-	1.6	-	2.4
Biochemistry Theory	2.4	1.6	1.2	1.1	0.8	1.6	0.8	1.6	0.8	0.8	2.4
Pathophysiology Theory	3	-	-	-	-	1	-	-	2	2	3
Computer Applications in Pharmacy Theory	3	2	1.75	3	1.4	1	1	1.6	-	-	2
Environmental Sciences Theory	-	2.25	2.5	1.75	1	1	1	1	1	3	3
Human Anatomy and Physiology- II Practical	3	2	2	2.25	1.75		1.5	3	2.25		3
Pharmaceutical Organic Chemistry- I Practical	3	2.25	1.6	2	-	1	1	-	2	-	3
Biochemistry Practical	3	1	1.6	1.8	1	1	1	0	1	1	3
Computer Applications in Pharmacy Practical	3	1.8	1.667	3	2	2	1	2.4	1	1	3



  
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Pharmaceutical Organic Chemistry-II Theory	3	-	2	-	-	1	1	1	2	-	3
Physical Pharmaceutics-I Theory	3	2	1.5	1.3	-	1	1	1	2	1	3
Pharmaceutical Microbiology Theory	3	1.2	1.8	2.8	1	1.6	1.8	1	1.2	1.6	1.2
Pharmaceutical Engineering Theory	3	2.4	3	2.4	1.2	1.2	1.6	1	1	1.2	1
Pharmaceutical Organic Chemistry-II Practical	3	2	1.8	2.5	2	1.25	1.2	2	2	1.6	3
Physical Pharmaceutics-I Practical	3	2.6	2.2	1.67	-	2	2.2	2.2	1.4	2	3
Pharmaceutical Microbiology Practical	3	2	2	2.4	2	1.4	1.75	1	1	1	1.25
Pharmaceutical Engineering Practical	3	2	3	2	1	1	1	1	1	1	3
Pharmaceutical Organic Chemistry- III Theory	3	-	2	-	-	1	1	1	2	-	3
Medicinal Chemistry- I Theory	3	-	2	2	-	1	1	1	2	-	3
Physical Pharmaceutics-II Theory	3	2.2	1.8	2	-	1	1	1	1.8	1	3
Pharmacology- I Theory	3	-	1	2	-	2	1	1	-	-	3
Pharmacognosy and Phytochemistry- I Theory	3	2.4	2.4	2	1.2	2	1.7	2.4	2.8	2	3
Medicinal Chemistry- I Practical	3	2	-	2	-	2	1	1	2	2	3
Physical Pharmaceutics-II Practical	3	3	2.2	1.7	-	2	2	2	1	2	3
Pharmacology-I Practical	3	-	2	3	-	1	1	-	1	2	3
Pharmacognosy and Phytochemistry-I Practical	3	2.6	2.8	2.2	2	2	1	1.4	1.6	2.8	3



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Medicinal Chemistry-II Theory	3	-	2	2	-	1	1	1	2	-	3
Industrial Pharmacy-I Theory	3	2.8	2.8	2.4	2	1.2	1	1.6	2.2	2.2	3
Pharmacology-II Theory	3	-	2	-	-	2	-	-	2	-	3
Pharmacognosy and Phytochemistry-II Theory	2.6	2.2	2	2.25	1	2.6	1.4	1.8	2	1.67	2.4
Pharmaceutical Jurisprudence Theory	3	2	1.67	3	2.2	3	3	-	2.2	1	2.38
Industrial Pharmacy-I Practical	3	2.2	2.8	2.8	1	2	1	2	3	-	3
Pharmacology-II Practical	3	-	2	-	-	2	-	-	-	-	3
Pharmacognosy and Phytochemistry-II Practical	3	2.8	2.8	2.4	2	1.2	1	1.6	2.2	2.2	3
Medicinal Chemistry- III Theory	3	-	2	2	-	1	1	1	2	-	3
Pharmacology- III Theory	3	1	1	2	1	2	-	1	2	2	3
Herbal Drug Technology-Theory	2.6	2.2	2	2.25	1	2.6	1.4	1.8	2	1.67	2.4
Biopharmaceutics and Pharmacokinetics – Theory	3	1.4	2	2	1.2	1	1.8	1	1.6	2	3
Pharmaceutical Biotechnology – Theory	3	1.6	1.4	1.2	-	1	1.4	1	1	2	3
Quality Assurance – Theory	3	2	3	2.5	2.3	2	3	2.3	2	3	3
Medicinal Chemistry-III – Practical	3	2	2.4	2.2	1	1	1	1	1	1	3
Pharmacology- III Practical	3	1.6	1.8	2	1	1.8	3	2	1	1.5	3
Herbal Drug Technology – Practical	3	2.8	2	3	1.75	1	1	1	1	1.2	3



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Subjects	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Instrumental Methods of Analysis Theory	3	-	2.4	2.8	2	2	-	-	2	-	3
Industrial Pharmacy-II Theory	3	2	2.5	1	1.75	1.8	3	3	1.2	1	3
Pharmacy Practice – Theory	3	-	2	2	-	1	1	1	2	-	3
Novel Drug Delivery System – Theory	3	-	-	3	-	-	-	1.6	2.2	-	3
Instrumental Methods of Analysis – Practical	3	3	3	3	2	3	3	-	3	-	3
Practice School	3	3	3	2.8	2	1.2	2	2.5	1.67	2	3
Biostatistics and Research Methodology- Theory	3	1.8	1.75	2.25	1.67	2	3	1.75	3	1.75	3
Social and Preventive Pharmacy -Theory	3	2	2	2	1.5	1.5	3	3	3	1.4	3
Pharmacovigilance-Theory	3	-	2	2	-	3	-	2	3	-	3
Advanced Instrumentation Techniques-Theory	3	2	2	2	1	1	-	2	2	-	3
Project Work	3	2.8	2.4	3	1.8	1.6	2.4	1.8	1.8	2	2.2
<b>Average of all POs</b>	2.95	2.05	2.05	2.18	1.55	1.50	1.51	1.69	1.73	1.64	2.79
<b>Direct Attainment</b>	2.36	1.64	1.64	1.74	1.24	1.20	1.21	1.35	1.38	1.32	2.23
<b>Indirect Attainment</b>	0.58	0.56	0.56	0.54	0.56	0.52	0.54	0.56	0.56	0.52	0.58
<b>Total Attainment</b>	2.94	2.20	2.20	2.28	1.80	1.72	1.75	1.91	1.94	1.84	2.81



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