

PURBANCHAL UNIVERSITY



CURRICULUM FOR BACHELOR OF PHARMACY (B. PHARM.)

(Semester System)

2007

Second Revision

2019

**PURBANCHAL UNIVERSITY
FACULTY OF MEDICAL AND ALLIED SCIENCES
GOTHGAUN, MORANG, NEPAL**

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1. Course Title:

The title of the program is Bachelor of Pharmacy (B. Pharm)

2. General Instructions:

Course Objective

- To produce internationally competent pharmaceutical health workforce for the development of pharmacy as a profession for fulfilling the health need of the people.
- To ensure better pharmacy practice in the hospital, pharmaceutical industries as well as in the community settings.
- To provide technically competent professionals for the promotion of rational use of drugs.
- To provide sound academic knowledge and skills to the students, that assists in the strengthening of the profession.
- To produce quality health professionals in order to provide quality health service to the general public.
- To develop leadership quality in the students for better health promotion and health programming.

Bachelor of Pharmacy Program of Purbanchal University is designed to produce competent graduates who have the abilities and skills in:

- Providing pharmaceutical care to patients
- Developing and managing medication distribution and control systems
- Managing the pharmacy in community and hospitals
- Promoting Public Health
- Providing drug information and education
- Managing and supervising the pharmaceutical manufacturing unit
- Working as a team member of Health workers in clinical setting

The curriculum emphasizes three major areas of instruction:

I. Basic Sciences: (Inorganic Pharmaceutical Chemistry, Organic Chemistry, Physical Chemistry, Mathematics).

II. Basic Medical Sciences: (Anatomy & Physiology, Biochemistry, Microbiology, Pathophysiology).

III. Pharmaceutical Sciences:

a. Pharmaceutical Chemistry and Instrumental Analysis: Emphasizes the application of chemical sciences to pharmacy. The courses deal with chemicals used as medicines, properties, preparation and preservation. In addition, attention is given to the processes and tests used to determine the purity and strength of a chemical or its pharmaceutical dosage form.

b. Pharmacognosy and Chemistry of Natural Product:

This course deals with the nature and sources of "natural drugs"- those obtained from plants or animals, either directly or indirectly. The aim of this course is to provide the knowledge and skill of basic principle and techniques in Pharmacognosy and to make the students familiar with the herbal drugs in different systems of medicines, phytochemistry, evaluation and standardization of crude drugs.

c. Pharmacology and Pharmacotherapeutics:

This course gives students the basic knowledge of drugs acting on various systems, pharmacotherapeutics management of some disorders and skills to carry out some selected pharmacological experiments. This course will help the students to develop the competency in pharmaceutical practice and research, in evaluating drug-interaction and drug incompatibility and providing drug information in community and clinical settings.

d. Hospital & Clinical Pharmacy and Community Pharmacy: These courses are designed to give an appreciation of the background and nature of the profession, to familiarize students with the many skilled processes used in pharmacy, to introduce the various forms of medicines, and to teach them how to dispense medication accurately and skillfully.

e. Physical Pharmacy, Pharmaceutics and Dosage form Design:

These courses will provide students the knowledge of application of physical pharmacy, formulation of different dosage forms, basic unit operations related to pharmaceutical procedures which will help students to design dosage form and work in pharmaceutical fields.

3. Course Duration:

The course duration is 4 years in 8 Semesters.

Total Credit hours: 168 Practical: 32 credits, Theory: 122 credits, Seminar-2 credits, Project Work: 6 credits and Professional internship 6 credits.

One semester	16 weeks
One credit for theory class	16 hours
One credit for practical class	48 hrs
One practical class should be carried out 3 in laboratory hrs.	
One day project work	6 hours
One day professional internship	8 hours
One seminar	48 hours

Total credits of B. Pharm. Course =168 credits

Total Theory Credits	Total Practical Credits	Project works Credits	Seminar Credits	Professional Internship Credits	Grand Total Credits
122	32	6	2	6	168

4. Course Coding:

Each course is given four capital letters (PHAR) followed by three digit numbers. PHAR letter indicates pharmacy program and three digit numbers indicates year, semester and sequence of subject respectively. Term 'Lab' indicates practical of respective subject and "Sem" indicates seminar.

5. Maximum Duration of Course:

A student will get a maximum of 7 years time period to complete the degree course (B. Pharm) from the date of admission.

6. Enrolment Criteria:

To be eligible for applying the program, one must meet the following criteria

- Must have passed 12 years (10+2) of formal education or I.Sc. or equivalent or certificate level in pharmacy or Diploma in Pharmacy.
- Must have passed higher secondary physics, chemistry and mathematics OR physics, chemistry and biology with an average score 50%. In case of grading system, required criteria will be as per university entrance notice.
- From Diploma in Pharmacy: Must pass Diploma of Pharmacy with average score 60% or Certificate of Pharmacy with Average score 50%. The candidate should have registration in Nepal Pharmacy Council (NPC).
- Must pass in the entrance examination conducted by PU or from PU affiliated colleges as per PU norms.
- From other Diploma (Health) Level Background:
 - a. Must pass Proficiency Certificate Level in General of Medicine (HA), Certificate in Medical Laboratory Technology (CMLT), with average score 60%. The Candidate should have registered in their respective council.
 - b. The above mentioned candidate from HA and CMLT should have diploma degree equivalent to 10+2 as per NEB (former HSEB) norms.

7. Medium of Language for Teaching and Examination:

The mode of instructions of teaching and Examination are conducted in English medium.

8. Academic Schedule:

Academic schedule consists of two semesters per year namely fall semester (September- February) and spring semester (February-August).

9. Instructions:

- I.** Each Semester consists of a minimum of 16 weeks instructions.
- II.** Internal assessment of Theoretical (20%) will be based on two class tests of 10 marks in each of the theory subject during each semester and 10 marks for class performance and attendance of student in each subject.
- III.** Internal assessment of Practical: 60% will be based on day to day attendance, viva, laboratory **record** etc.
- IV.** A minimum of 80% attendance in theory and practical classes are compulsory.
- V.** A student has to obtain minimum 50% marks in theory paper and 60% marks in practical subjects separately to pass each subject.

10. Teaching/ Learning Methodology:

I. Lectures:

Theory classes will be conducted 7 hours per working days according to the routine set by the program coordinator.

II. Practical/Demonstration:

The students have to carry out the practical/laboratory work to learn the prescribed skills under the supervision of the respective teachers/laboratory incharges. Some practical may be demonstrated either manually or by video demonstration. The practical/demonstration would be subjected to change according to the need of the subject matter as decided by the department.

III. Problem oriented learning/Self-directed learning:

"Problem oriented learning" and self-directed learning shall be applied whenever appropriate, that will be helpful to set problem based questions in the examination.

IV. Project work:

In fourth year (**eighth semester**), the project assignment will be given to students (in group of maximum 3 students) which should be completed and submitted to the department before the final examination. Students shall review and search the literature, conduct research and prepare project work report under the supervision of assigned teacher. The students will have to defend their project work.

V. Industry / Academia Interaction:

Experts from the regulatory bodies (DDA), pharmaceutical industries, research/ quality control laboratory and related institutions will be invited to give insights and to share experiences in emerging areas.

VI. Visits and Observations:

Visits and Observations in different hospitals, pharmaceutical industries, drug regulatory bodies, research laboratories, and community pharmacy and drug distributors will be conducted as instructed by curriculum.

VII. Seminar Works:

In Fifth and Sixth semester, students in a group of maximum five numbers shall be given topics related on scientific publication, review article, case study etc. Students shall present their topic and the evaluation for the same will be done by internal and external examiner.

VIII. Internship/Training:

Internship/Training in hospital and community pharmacy, pharmaceutical industry, quality control laboratory etc. will be carried as per curriculum requirements.

11. Evaluation System:

Evaluation system is divided into internal evaluation and end semester final examination (external evaluation).

11.1. Internal Evaluation:

Table 1: Marks Allocation for Internal Evaluation

Theory		Practical		Seminar		Project Work/ Professional Internship	
FM	PM	FM	PM	FM	PM	FM	PM
20	10	30	18	30	18	60	36

11.2 Internal Evaluation Criteria:

A. Theory

S. N.	Particular	Percentage (%)	Marks (FM=20)
1.	Minimum Two assessments	50	10
2.	Attendance	25	5
3.	Class Performance and Discipline	25	5
Total			20

B. Practical

S. N.	Particular	Percentage (%)	Marks (FM=30)
1.	Lab Performance	40	12
2.	Record file	20	6
3.	Attendance	20	6
4.	Internal Test/Viva	20	6
Total			30

C. Seminar

S. N.	Particular	Percentage (%)	Marks (FM=30)
1.	Content	30	9
2.	Presentation and performance	50	15
3.	Interaction skill	20	6
Total			30

D. Project Work

S. N.	Particular	Percentage (%)	Marks (FM=60)
1.	Dissertation writing and Literature Review and References	20	12
2.	Research Work in Hospital/ Community/ Industrial/ Study area	40	24
3.	Scientific contents: contribution and existing subject knowledge in his/her work	10	6
4.	Result & Discussion, Conclusion writing	15	9
5.	Presentation skills & Communication	15	9
Total			60

E. Research Methodology and Proposal Design

S. N.	Particular	Percentage (%)	Marks (FM=30)
1.	Literature Survey	40	12
2.	Proposal Submission	40	12
3.	Presentation/Viva	20	6
Total			30

F. Professional Internship:

S.N.	Particular	Percentage (%)	Marks (FM=60)
1.	Log Book Record	60	36
2.	Report Submission	30	18
3.	Presentation /Viva	10	6
Total			60

11.3 End Semester Examination (External Evaluation):

Table 2: Marks Allocation for End Semester Assessment

Theory		Practical		Seminar		Project Work/ Professional Internship	
FM	PM	FM	PM	FM	PM	FM	PM
80	40	20	12	20	12	40	24

End semester examination will be conducted by Examination Management Office of Purbanchal University at the end of every semester. The procedure for examination will be as per the examination rules of University.

11.4. End Semester Evaluation Criteria:

A. Theory

End Semester examination of theoretical subject will be conducted for three hours for the total of 80 marks in written paper test. The examination question pattern is divided into four parts as shown in Annex I.

B. Practical

S. N.	Particular	Percentage (%)	Marks (FM=20)
1.	Synopsis	25	5
2.	Experiment	50	10
3.	Viva Voce	25	5
Total			20

C. Seminar

S. No.	Particular	Percentage (%)	Marks (FM=20)
1.	Content	30	9
2.	Presentation and performance	50	15
3.	Interaction Skill	20	6
Total			20

D. Project Work

S. N.	Particular	Percentage (%)	Marks (FM=40)
1.	Report Content	40	16
2.	Presentation skills & Communication	30	12
3.	Question and Answer (Viva)	30	12
Total			40

E. Research Methodology and Proposal Design

S. N.	Particular	Percentage (%)	Marks (FM=20)
1.	Proposal Submission	50	10
2.	Presentation/Viva	50	10
Total			20

F. Professional Internship

S. N.	Particular	Percentage (%)	Marks (FM=20)
1.	Report Submission	50	10
2.	Presentation /Viva	50	10
Total			20

End semester (final) examination of practical, seminar work, Research Methodology and Proposal Design and Project Work/ Professional internship evaluation will be done by internal and external examiner appointed by Purbanchal University, Examination Management Office.

12. Grading System:

The grades (marks) awarded to student in a course is based on his/her consolidated performance in internal and final examinations. The letter grade in any particular subject is an indication of a student's relative performance in that course. The pattern of grading will be as follows:

Table: 3 Letter Grading System of Purbanchal University,

Equivalent marks in %	Letter Grades	Grade Value	Remarks
90 and Above	A ⁺	4.00	
80 and Below 90	A	3.75	
70 and Below 80	B ⁺	3.50	
60 and Below 70	B	3.00	

50 and Below 60	C	2.50	
40 and Below 50	D	1.75	
Below 40	F	0.00	Fail
Not Qualified (NQ) /Absent	I		Incomplete

The student's final grade will be calculated on cumulative grade point average (CGPA). **CGPA** at the end of the degree defines the division which will as followings:

CGPA Definition	Division
3.75-Below 4.00	First with Excellence
3.50-Below 3.75	First with Distinction
3.00-Below 3.50	First Division
2.50-Below 3.00	Second Division
2.00-Below 2.50	Pass Division

13. Dismissal from the Program:

A student will be dismissed from the program if he/she fails to maintain CGPA of 2.50 and could not complete B. Pharm course within 7 years from date of admission.

14. Field Observation:

- During first semester (1day trip) and third semester (3-4 days trip) as per the syllabus requirement of Pharmacognosy-I, Pharmacognosy-II and Pharmcognosy-III, students will be visited the Herbal Garden (Botanical Garden) or a suitable medicinal garden to observe the local flora and fauna with the following objectives:

- Every student will collect herbal samples and prepare a standard herbarium medicinal plant from observed field.
- Student will submit a report that will be evaluated for respective subject.
- Visit to any Essential oil extraction plant.
- Pharmaceutical Industry Visit: During 6th or 7th Semester, students will visit National Pharmaceutical Industries as per available opportunity with the following objectives.

General objective visit:

- To observe the organization of a pharmaceutical manufacturing unit.

Specific Objectives

- i) To observe and understand the Water Treatment System
- ii) To observe and understand the HVAC and other utility
- iii) To observe and understand the manufacturing flow of different Pharmaceutical Dosage form in the industry and
- iv) To understand the Quality Control System implemented and practiced in the Industry.

Department assigned a group of 3-4 students to submit an observation visit report that will be evaluated for 50% of internal test marks of Pharmaceutical Technology II Practical or Dosage form Design Practical as per the time of the visit.

15. Professional Internship:

Six weeks and two days professional internship on Industrial or QA/QC Laboratory or Hospital or Community Pharmacy Internship is compulsory for all students for the partial fulfillment of degree of Bachelor of Pharmacy in Purbanchal University.

Detail Syllabus Outline of Bachelor of Pharmacy (Revised 2019)

First Year: First Semester										
S. N.	Course Code	Subject	Credit Hour		Hrs/ Wk	Hrs/ Sem	Evaluation			
			Th	Pr			Internal		Final	
							FM	PM	FM	PM
1.	PHAR 111	Pharmaceutical Inorganic Chemistry	3	-	3	48	20	10	80	40
2.	PHAR 112	Pharmacognosy- I	3	-	3	48	20	10	80	40
3.	PHAR 113	Physical Chemistry	3	-	3	48	20	10	80	40
4.	PHAR 114	Mathematics	3	-	3	48	20	10	80	40
5.	PHAR 115	Basic Computer Applications	2	-	2	32	20	10	80	40
6.	PHAR 116	Communication Skill	2	-	2	32	20	10	80	40
7.	PHAR 111 Lab	Pharmaceutical Inorganic Chemistry Practical	-	1	3	48	30	18	20	12
8.	PHAR 112 Lab	Pharmacognosy- I Practical	-	1	3	48	30	18	20	12
9.	PHAR 113 Lab	Physical Chemistry Practical	-	1	3	48	30	18	20	12
10.	PHAR 115 Lab	Basic Computer Applications Practical	-	1	3	48	30	18	20	12
	Total Credit		16	4	28	448	240		560	
Total Credit Hours (Theory and Practical) and Full Marks			20				800			

First Year: Second Semester

S. N.	Course Code	Subject	Credit Hour		Hrs/ Wk	Hrs/ Sem	Evaluation			
			Th	Pr			Internal		Final	
					FM	PM	FM	PM		
1.	PHAR 121	Pharmaceutical Organic Chemistry–I	3	-	3	48	20	10	80	40
2.	PHAR 122	Pharmacognosy-II	3	-	3	48	20	10	80	40
3.	PHAR 123	Physical Pharmacy	3	-	3	48	20	10	80	40
4.	PHAR 124	Pharmaceutical Analysis-I	3	-	3	48	20	10	80	40
5.	PHAR 125	Anatomy & Physiology-I	3	-	3	48	20	10	80	40
6.	PHAR 121 Lab	Pharmaceutical Organic Chemistry–I Practical	-	1	3	48	30	18	20	12
7.	PHAR 122 Lab	Pharmacognosy–II Practical	-	1	3	48	30	18	20	12
8.	PHAR 123 Lab	Physical Pharmacy Practical	-	1	3	48	30	18	20	12
9.	PHAR 124 Lab	Pharmaceutical Analysis-I Practical	-	1	3	48	30	18	20	12
10.	PHAR 125 Lab	Anatomy & Physiology-I Practical	-	1	3	48	30	18	20	12
Total Credit			15	5	30	480	250		500	
Total Credit Hours (Theory and Practical) and Full Marks			20				750			

Second Year: Third Semester										
S. No	Course Code	Subject	Credit Hour		Hrs / Wk	Hrs/ Sem.	Evaluation			
			Th.	Pr.			Internal		Final	
					FM	PM	FM	PM		
1.	PHAR 211	Pharmaceutical Organic Chemistry-II	3	-	3	48	20	10	80	40
2.	PHAR 212	Pharmacognosy-III	3	-	3	48	20	10	80	40
3.	PHAR 213	Pharmaceutical Analysis-II	3	-	3	48	20	10	80	40
4.	PHAR 214	Pharmaceutical Engineering-I	3	-	3	48	20	10	80	40
5.	PHAR 215	Anatomy & Physiology-II	3	-	3	48	20	10	80	40
6.	PHAR 211 Lab	Pharmaceutical Organic Chemistry-II Practical	-	1	3	48	30	18	20	12
7.	PHAR 212 Lab	Pharmacognosy-III Practical	-	1	3	48	30	18	20	12
8.	PHAR 213 Lab	Pharmaceutical Analysis-II Practical	-	1	3	48	30	18	20	12
9.	PHAR 214 Lab	Pharmaceutical Engineering-I Practical	-	1	3	48	30	18	20	12
10.	PHAR 215 Lab	Anatomy & Physiology-II Practical	-	1	3	48	30	18	20	12
Total Credit			15	5	30	480	250		500	
Total Credit Hours (Theory and Practical) and Full Marks			20				750			

Second Year: Fourth Semester

S. N	Course Code	Subject	Credit Hour		Hrs / Wk	Hrs/ Sem.	Evaluation			
			Th.	Pr.			Internal		Final	
							FM	PM	FM	PM
1.	PHAR 221	Biochemistry	3	-	3	48	20	10	80	40
2.	PHAR 222	Chemistry of Natural Products	3	-	3	48	20	10	80	40
3.	PHAR 223	Pharmaceutical Engineering-II	3	-	3	48	20	10	80	40
4.	PHAR 224	Pharmaceutical Microbiology	3	-	3	48	20	10	80	40
5.	PHAR 225	Pharmacology-I	3	-	3	48	20	10	80	40
6.	PHAR 221 Lab	Biochemistry Practical	-	1	3	48	30	18	20	12
7.	PHAR 222 Lab	Chemistry of Natural Products Practical	-	1	3	48	30	18	20	12
8.	PHAR 223 Lab	Pharmaceutical Engineering-II Practical	-	1	3	48	30	18	20	12
9.	PHAR 224 Lab	Pharmaceutical Microbiology Practical	-	1	3	48	30	18	20	12
10.	PHAR 225 Lab	Pharmacology-I Lab	-	1	3	48	30	18	20	12
Total Credit			15	5	30	480	250		500	
Total Credit Hours (Theory and Practical) and Full Marks			20				750			

Third Year: Fifth Semester										
S. N.	Course Code	Subject	Credit Hour		Hrs/ Wk	Hrs/ Sem.	Evaluation			
			Th.	Pr.			Internal		Final	
							FM	PM	FM	PM
1.	PHAR 311	Medicinal Chemistry- I	3	-	3	48	20	10	80	40
2.	PHAR 312	Pharmaceutical Technology- I	3	-	3	48	20	10	80	40
3.	PHAR 313	Pharmaceutical Biotechnology	3	-	3	48	20	10	80	40
4.	PHAR 314	Pharmacology –II	3	-	3	48	20	10	80	40
5.	PHAR 315	Public Health Pharmacy	3	-	3	48	20	10	80	40
6.	PHAR 316	Pathophysiology	3	-	3	48	20	10	80	40
7.	PHAR 311 Lab	Medicinal Chemistry- I Practical	-	1	3	48	30	18	20	12
8.	PHAR 312 Lab	Pharmaceutical Technology-I Practical	-	1	3	48	30	18	20	12
9.	PHAR 313 Lab	Pharmaceutical Biotechnology Practical	-	1	3	48	30	18	20	12
10.	PHAR 317 SEM	Seminar-I	-	1	3	48	30	18	20	12
	Total Credit		18	4	30	480	240		560	
Total Credit Hours (Theory and Practical) and Full Marks			22				800			

Third Year: Six Semester										
S. N.	Course Code	Subject	Credit Hour		Hrs/ Wk	Hrs/ Sem.	Evaluation			
			Th.	Pr.			Internal		Final	
							FM	PM	FM	PM
1.	PHAR 321	Medicinal Chemistry- II	3	-	3	48	20	10	80	40
2.	PHAR 322	Pharmaceutical Technology- II	3	-	3	48	20	10	80	40
3.	PHAR 323	Pharmacology –III	3	-	3	48	20	10	80	40
4.	PHAR 324	Bio pharmaceuticals & Pharmacokinetics	3	-	3	48	20	10	80	40
5.	PHAR 325	Biostatistics	3	-	3	48	20	10	80	40
6.	PHAR 321 Lab	Medicinal Chemistry-II Practical	-	1	3	48	30	18	20	12
7.	PHAR 322 Lab	Pharmaceutical Technology-II Practical	-	1	3	48	30	18	20	12
8.	PHAR 323 Lab	Pharmacology–III Practical	-	1	3	48	30	18	20	12
9.	PHAR 324 Lab	Biopharmaceutics & Pharmacokinetics Practical	-	1	3	48	30	18	20	12
10.	PHAR 326 SEM	Seminar-II		1	3	48	30	18	20	12
	Total Credit		15	5	30	480	250		500	
Total Credit Hours (Theory and Practical) and Full Marks			20				750			

Forth Year: Seventh Semester										
S. N.	Course Code	Subject	Credit Hour		Hrs/ Wk	Hrs/ Sem.	Evaluation			
			Th.	Pr.			Internal		Final	
							FM	PM	FM	PM
1.	PHAR 411	Dosage Form Design	3	-	3	48	20	10	80	40
2.	PHAR 412	Pharmaceutical Management	3	-	3	48	20	10	80	40
3.	PHAR 413	Pharmacotherapeutics	3	-	3	48	20	10	80	40
4.	PHAR 414	Research Methodology	3	-	3	48	20	10	80	40
5.	PHAR 415	Forensic Pharmacy	3	-	3	48	20	10	80	40
6.	PHAR 416	Dispensing and Community Pharmacy	3	-	3	48	20	10	80	40
7.	PHAR 411 Lab	Dosage Form Design Practical	-	1	3	48	30	18	20	12
8.	PHAR 414 Lab	Research Methodology and Proposal Design Practical	-	1	3	48	30	18	20	12
9.	PHAR 416 Lab	Dispensing and Community Pharmacy Practical	-	1	3	48	30	18	20	12
	Total Credit		18	3	27	480	210		540	
Total Credit Hours (Theory and Practical) and Full Marks			21				750			

Forth Year: Eighth Semester										
S. N.	Course Code	Subject	Credit Hour		Hrs/ Wk	Hrs/ Sem.	Evaluation			
			Th.	Pr.			Internal		Final	
							FM	PM	FM	PM
1.	PHAR 421	Hospital Pharmacy	3	-	3	48	20	10	80	40
2.	PHAR 422	Drug Delivery System	2	-	2	32	20	10	80	40
3.	PHAR 423	Instrumental Analysis	3	-	3	48	20	10	80	40
4.	PHAR 424	Clinical Pharmacy	2	-	2	32	20	10	80	40
5.	PHAR 421 Lab	Hospital Pharmacy Practical	-	1	3	48	30	18	20	12
6.	PHAR 422 Lab	Drug Delivery System Practical	-	1	3	48	30	18	20	12
7.	PHAR 423 Lab	Instrumental Analysis Practical	-	1	3	48	30	18	20	12
8.	PHAR 425	Project Work	-	6	3	288	60	36	40	24
Total Credit Hours (Theory and Practical)			10	9	28	592	230		420	
9.	PHAR 426	Professional Internship	6		48	304	60	36	40	24
Grand Total Credit hours (Theory+ Practical + Internship)			25			896	750			

Summary of B Pharm. Curriculum in credits and hours

Semester	I	II	III	IV	V	VI	VII	VIII	Total
Credits	20	20	20	20	22	20	21	25	168
Full Marks	800	750	750	750	800	750	750	750	6100
Total hrs	448	480	480	480	480	480	480	896	4224