

GURU KASHI UNIVERSITY



Bachelor of Pharmacy

Session: 2023-24

Department of Pharmacy

GRADUATE OUTCOME OF THE PROGRAMME

Graduates will show integrate knowledge and skills with clinical research to provide healthcare solutions for the benefit of the society; excellent in current way of things and technologies, doing excellent problem solving and will possess professional, ethical, kind behaviour and standards.

PROGRAMME LEARNING OUTCOMES

- 1 To acquire comprehensive knowledge and basic principles of Pharmaceutical agents and devices along with other associated sciences.
- 2 To develop an ability to identify, formulate and solve complex problems of Pharmaceutical Industry, Community & Hospital Pharmacy.
- 3 To design solutions for complex pharmacy problems that meet the specified needs with appropriate concern for the public health and safety and the cultural and environmental considerations.
- 4 To use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
- 5 To implement appropriate methods, procedures, resources and modern pharmacy-related computing tools.
- 6 To execute contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional Pharmacy Practice.
- 7 To recognize the impact of the professional pharmacy solutions in community and environmental contexts, and demonstrate the knowledge and need for sustainable development.
- 8 To possess personal & universal values and apply ethical principles in professional and social contexts.
- 9 To realize responsibility as an individual and as a member, or leader in professional team or multidisciplinary settings.
- 10 To communicate effectively in the professional settings and with society at large.
- 11 To execute and demonstrate their professional skills and comprehensive knowledge to manage projects, to carry out research in the core and applied areas of Pharmaceutical sciences.
- 12 To recognize the need for self-assessment and effectively use the feedback from others to identify learning needs to compete globally.

Course Structure of the Program

Semester- I						
Course Code	Course Title	Type of Course				Credit
			L	T	P	
BP101T	Human Anatomy and Physiology I–Theory	Core Course	3	1	0	4
BP102T	Pharmaceutical Analysis I – Theory	Core Course	3	1	0	4
BP103T	Pharmaceutics I –Theory	Core Course	3	1	0	4
BP104T	Pharmaceutical Inorganic Chemistry - Theory	Core Course	3	1	0	4
BP105T	Communication skills–Theory *	Ability Enhancement	2	0	0	2
BP106RBT	Remedial Biology	Deficient Course	2	0	0	2
BP106RMT	Remedial Mathematics – Theory*					
BP107P	Human Anatomy and Physiology I– Practical	Technical Enhancement	0	0	4	2
BP108P	Pharmaceutical Analysis I – Practical	Technical Enhancement	0	0	4	2
BP109P	Pharmaceutics I – Practical	Technical Enhancement	0	0	4	2
BP1110P	Pharmaceutical Inorganic Chemistry-Practical	Technical Enhancement	0	0	4	2
BP111P	Communication skills–Practical*	Ability Enhancement	0	0	2	1
BP1112RBP	Remedial Biology – Practical*	Ability Enhancement	0	0	2	1
Total			32/34^{\$}/36[#]			27/29^{\$}/30[#]

#Applicable ONLY for the students who have studied Mathematics /Physics/ Chemistry at HSC and appearing for Remedial Biology (RB) course.

\$Applicable ONLY for the students who have studied Physics /Chemistry /Botany /Zoology at HSC and appearing for Remedial Mathematics (RM) course.

Semester- II						
Course Code	Course Title	Type of Course				Credit
			L	T	P	
BP201T	Human Anatomy and Physiology II – Theory	Core Course	3	1	0	4
BP202T	Pharmaceutical Organic Chemistry I – Theory	Core Course	3	1	0	4
BP203T	Biochemistry – Theory	Core Course	3	1	0	4

BP204T	Pathophysiology – Theory	Core Course	3	1	0	4
BP205T	Computer Applications in Pharmacy – Theory *	Technical Enhancement	3	0	0	3
BP206T	Environmental sciences – Theory *	Ability Enhancement	3	0	0	3
BP207P	Human Anatomy and Physiology II –Practical	Technical Enhancement	0	0	4	2
BP208P	Pharmaceutical Organic Chemistry I- Practical	Technical Enhancement	0	0	4	2
BP209P	Biochemistry – Practical	Technical Enhancement	0	0	4	2
BP210P	Computer Applications in Pharmacy – Practical*	Technical Enhancement	0	0	2	1
Total			15	4	14	29

*Non University Examination (NUE)

Semester- III						
Course Code	Course Title	Type of Course				Credit
			L	T	P	
BP301T	Pharmaceutical Organic Chemistry II – Theory	Core Course	3	1	0	4
BP302T	Physical Pharmaceutics I – Theory	Core Course	3	1	0	4
BP303T	Pharmaceutical Microbiology – Theory	Core Course	3	1	0	4
BP304T	Pharmaceutical Engineering – Theory	Core Course	3	1	0	4
BP305P	Pharmaceutical Organic Chemistry II – Practical	Technical Enhancement	0	0	4	2
BP306P	Physical Pharmaceutics I – Practical	Technical Enhancement	0	0	4	2
BP307P	Pharmaceutical Microbiology – Practical	Technical Enhancement	0	0	4	2
BP308P	Pharmaceutical Engineering –Practical	Technical Enhancement	0	0	4	2
Total			12	4	16	24

Semester- IV						
Course Code	Course Title	Type of Course				Credit
			L	T	P	
BP401T	Pharmaceutical Organic Chemistry III- Theory	Core Course	3	1	0	4
BP402T	Medicinal Chemistry I – Theory	Core Course	3	1	0	4

BP403T	Physical Pharmaceutics II – Theory	Core Course	3	1	0	4
BP404T	Pharmacology I – Theory	Core Course	3	1	0	4
BP405T	Pharmacognosy and Phytochemistry I– Theory	Core Course	3	1	0	4
BP406P	Medicinal Chemistry I – Practical	Technical Enhancement	0	0	4	2
BP407P	Physical Pharmaceutics II – Practical	Technical Enhancement	0	0	4	2
BP408P	Pharmacology I – Practical	Technical Enhancement	0	0	4	2
BP409P	Pharmacognosy and Phytochemistry I – Practical	Technical Enhancement	0	0	4	2
Total			15	5	16	28

Semester –V						
Course Code	Course Title	Type of Course				
			L	T	P	Credit
BP501T	Medicinal Chemistry II – Theory	Core Course	3	1	0	4
BP502T	Industrial Pharmacy I– Theory	Core Course	3	1	0	4
BP503T	Pharmacology II – Theory	Core Course	3	1	0	4
BP504T	Pharmacognosy and Phytochemistry II– Theory	Core Course	3	1	0	4
BP505T	Pharmaceutical Jurisprudence – Theory	Core Course	3	1	0	4
BP506P	Industrial Pharmacy I – Practical	Technical Enhancement	0	0	4	2
BP507P	Pharmacology II – Practical	Technical Enhancement	0	0	4	2
BP508P	Pharmacognosy and Phytochemistry II – Practical	Technical Enhancement	0	0	4	2
Total			15	5	12	26

Semester –VI						
Course Code	Course Title	Type of Course				
			L	T	P	Credit
BP601T	Medicinal Chemistry III – Theory	Core Course	3	1	0	4
BP602T	Pharmacology III – Theory	Core Course	3	1	0	4
BP603T	Herbal Drug Technology-Theory	Core Course	3	1	0	4
BP604T	Biopharmaceutics and Pharmacokinetics –Theory	Core Course	3	1	0	4
BP605T	Pharmaceutical Biotechnology – Theory	Core Course	3	1	0	4
BP606T	Quality Assurance – Theory	Core Course	3	1	0	4
BP607P	Medicinal chemistry III – Practical	Technical Enhancement	0	0	4	2
BP608P	Pharmacology III – Practical	Technical Enhancement	0	0	4	2
BP609P	Herbal Drug Technology – Practical	Technical Enhancement	0	0	4	2
Total			18	6	12	30

Semester –VII						
Course Code	Course Title	Type of Course				
			L	T	P	Credit
BP701T	Instrumental Methods of Analysis – Theory	Core Course	3	1	0	4
BP702T	Industrial Pharmacy II – Theory	Core Course	3	1	0	4
BP703T	Pharmacy Practice – Theory	Core Course	3	1	0	4
BP704T	Novel Drug Delivery System – Theory	Core Course	3	1	0	4
BP705P	Instrumental Methods of Analysis – Practical	Technical Enhancement	0	0	4	2
BP706PS	Practice School*	Technical Enhancement	0	0	12	6
Total			12	4	16	24

Semester –VIII

Course Code	Course Title	Type of Course				
			L	T	P	Credit
BP801T	Biostatistics and Research Methodology	Foundation Compulsory	3	1	0	4
BP802T	Social and Preventive Pharmacy	Ability Enhancement	3	1	0	4
Elective (Any two of the following)						
BP803ET	Pharma Marketing Management	Discipline Elective	6	2	0	8
BP804ET	Pharmaceutical Regulatory Science					
BP805ET	Pharmacovigilance					
BP806ET	Quality Control and Standardization of Herbals					
BP807ET	Computer Aided Drug Design					
BP808ET	Cell and Molecular Biology					
BP809ET	Cosmetic Science					
BP810ET	Experimental Pharmacology					
BP811ET	Advanced Instrumentation Techniques					
BP812ET	Dietary Supplements and Nutraceuticals					
BP813PW	Project Work	Technical Enhancement	0	0	12	6
Total			12	4	12	22
Grand Total			135	36	118	212

Total Number of Course	76
Number of Theory Course	49
Number of Practical Course	27
Total Number of Credits	212