

GURU KASHI UNIVERSITY



Pharm.D
(Doctor of Pharmacy)
Session: 2024-25
Department of Pharmacy

Graduate Attributes of the Programme: -

Type of learning outcomes	The Learning Outcomes Descriptors
Graduates	should be able to demonstrate the acquisition of:
Learning outcomes that are specific to disciplinary/interdisciplinary areas of learning	Develop theoretical and practical knowledge to suitably serve the pharmaceutical industry or to pursue higher education.
	Inculcate professional competence regarding pharmaceutical product development cycle as well as clinical pharmacy services as a part of the health care team.
	Be imparted active and effective communication skills, team management skills and other managerial level attributes.
	Be acquainted about their role and responsibilities regarding environmental and social upliftment and ethical conduct in profession and society.
	Be mentored for development of inquisitive aptitude and learning attitude to ensure suitability in the professional working scenario.
Generic learning outcomes	Ability to apply principles and knowledge of Anatomy, Physiology, pathophysiology, microbiology, pharmacology, food and nutraceuticals and cosmetics for good health of the society.
	Ability to apply the knowledge of inorganic chemistry, biochemistry, medicinal chemistry, natural and herbal products and pharmacognostical principles for discovery and development of new drugs.
	Understand the principles of biotechnology, biopharmaceutics, pharmaceutical engineering, and develop methodology for research work.

Programme Learning outcomes: An Undergraduate Certificate is awarded to students who have demonstrated the achievement of the outcomes located at level 5.5:

Element of the Descriptor	Programme learning outcomes relating to Undergraduate Certificate
The graduates should be able to demonstrate the acquisition of:	
Pharmacy Knowledge	Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices
Planning Abilities	Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.
Problem analysis	Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.
Modern tool usage	Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
Leadership skills	Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing.
Professional Identity	Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
Pharmaceutical Ethics	Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.
Communication	Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and

	write effective reports, make effective presentations and documentation, and give and receive clear instructions
The Pharmacist and society	Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.
Environment and sustainability	Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
Life-long learning	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.
Credit requirements	96
Entry requirements	<p>Candidate shall have passed 10+2 examination conducted by the respective state/central government authorities recognized as equivalent to 10+2 examination by the Association of the Indian Universities (AIU) with English as one of the subjects and Physics, Chemistry, Mathematics/ Biology as optional subjects individually. However the students possessing 10+2 qualification from non-formal and non-class rooms based schooling such as National Institute of Open schooling, open school systems of states etc. shall not be eligible for admission to B. Pharmacy course.</p> <p>Any other qualification approved by the Pharmacy council of India as equivalent to any of the above examinations.</p>

Course Structure of the Program

1st Year									
Course Code	Course Title	Type of Course							
			L	T	P	Credit	Int	Ext	Total
BDP101T	Human Anatomy and Physiology	Core	3	1	0	4	30	70	100
BDP102T	Pharmaceutics	Core	2	1	0	3	30	70	100
BDP103T	Medicinal Biochemistry	Core	3	1	0	4	30	70	100
BDP104T	Pharmaceutical Organic Chemistry	Core	3	1	0	4	30	70	100
BDP105T	Pharmaceutical Inorganic Chemistry	Core	2	1	0	3	30	70	100
BDP106 RBT / BDP 106RMT	Remedial Mathematics [#] / Biology ^{\$}	Deficient Course	3	1	0	4	30	70	100
BDP107P	Human Anatomy and Physiology	Technical	0	0	3	2	30	70	100
BDP108P	Pharmaceutics	Technical	0	0	3	2	30	70	100
BDP109P	Medicinal Biochemistry	Technical	0	0	3	2	30	70	100
BDP110P	Pharmaceutical Organic Chemistry	Technical	0	0	3	2	30	70	100
BDP111P	Pharmaceutical Inorganic Chemistry	Technical	0	0	3	2	30	70	100
BDP112P	Remedial Biology ^{\$}	Deficient Course	0	0	3	2	30	70	100
	Total		16	06	18	34	360	840	1200

#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.

2nd Year									
Course Code	Course Title	Type of Course							
			L	T	P	Credit	Int	Ext	Total
BDP201T	Pathophysiology	Core	3	1	0	4	30	70	100
BDP203T	Pharmaceutical Microbiology	Core	3	1	0	4	30	70	100
BDP204T	Pharmacognosy & Phytopharmaceuticals	Core	3	1	0	4	30	70	100
BDP205T	Pharmacology-I	Core	3	1	0	4	30	70	100
BDP206T	Community Pharmacy	Core	2	1	0	3	30	70	100
BDP207T	Pharmaco-therapeutics-I	Core	3	1	0	4	30	70	100
BDP208P	Pharmaceutical Microbiology	Technical	0	0	3	2	30	70	100
BDP209P	Pharmacognosy & Phytopharmaceuticals	Technical	0	0	3	2	30	70	100
BDP210P	Pharmaco therapeutics-I	Technical	0	0	3	2	30	70	100
	Total		17	6	9	29	270	630	900

*Non-University Examination (NUE)

3rd Year									
Course Code	Course Title	Type of Course							
			L	T	P	Credit	Int	Ext	Total
BDP301T	Pharmacology-II	Core	3	1	0	4	30	70	100
BDP302T	Pharmaceutical Analysis	Core	3	1	0	4	30	70	100
BDP303T	Pharmacotherapeutics-II	Core	3	1	0	4	30	70	100
BDP304T	Pharmaceutical Jurisprudence	Core	2	0	0	2	30	70	100
BDP305T	Medicinal Chemistry	Core	3	1	0	4	30	70	100
BDP306T	Pharmaceutical Formulations	Core	2	1	0	3	30	70	100
BDP307P	Pharmacology-II	Technical	0	0	3	2	30	70	100
BDP308P	Pharmaceutical Analysis	Technical	0	0	3	2	30	70	100
BDP309P	Pharmacotherapeutics-II	Technical	0	0	3	2	30	70	100
BDP310P	Medicinal Chemistry	Technical	0	0	3	2	30	70	100
BDP311P	Pharmaceutical Formulations	Technical	0	0	3	2	30	70	100
	Total		16	5	15	29	330	770	1100

4th Year									
Course Code	Course Title	Type of Course							
			L	T	P	Credit	Int	Ext	Total
BDP401T	Pharmacotherapeutics -III	Core	3	1	0	4	30	70	100
BDP402T	Hospital Pharmacy	Core	2	1	0	3	30	70	100
BDP403T	Clinical Pharmacy	Core	3	1	0	4	30	70	100
BDP404T	Biostatistics & Research Methodology	Core	2	1	0	3	30	70	100
BDP405T	Biopharmaceutics & Pharmacokinetics	Core	3	1	0	4	30	70	100
BDP406T	Clinical Toxicology	Core	2	1	0	3	30	70	100
BDP407P	Pharmacotherapeutics -III	Technical	0	0	3	2	30	70	100
BDP408P	Hospital Pharmacy	Technical	0	0	3	2	30	70	100
BDP409P	Clinical Pharmacy	Technical	0	0	3	2	30	70	100
BDP410P	Biopharmaceutics & Pharmacokinetics	Technical	0	0	3	2	30	70	100
	Total		15	6	12	29	300	700	1000

5th Year									
Course Code	Course Title	Type of Course							
			L	T	P	Credits	Int	Ext	Total
BDP501T	Clinical Research	Core	3	1	0	4	30	70	100
BDP502T	Pharmacoepidemiology and Pharmacoeconomics	Core	3	1	0	4	30	70	100
BDP503T	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	core	2	1	0	3	30	70	100
BDP504P	Clerkship *	Technical	0	1	0	1	30	70	100
BDP505P	Project work (Six Months)	Technical	0	0	20	10	-	100	100
	Total		8	4	20	22	120	380	500
	Grand Total					96			4700

Total Number of Course	48
Number of Theory Course	28
Number of Practical Course	20
Total Number of Credits	96

