## 9. Course of study

The course of study for B. Pharm shall include Semester Wise Theory & Practical as given in Table – I to VIII. The number of hours to be devoted to each theory, tutorial and practical course in any semester shall not be less than that shown in Table – I to VIII.

Table-I: Course of study for semester I

Course code	Name of the course	No. of hours	Tuto rial	Credit points	
BP101T	Human Anatomy and Physiology I— Theory	3	1	4	
BP102T	Pharmaceutical Analysis I – Theory	3	1	4	
BP103T	Pharmaceutics I – Theory	3	1	4	
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3	1	4	
BP105T	Communication skills – Theory *	2	-	2	611
BP106RBT BP106RMT	Remedial Biology/ Remedial Mathematics – Theory*	2	-	2	Macz
BP107P	Human Anatomy and Physiology – Practical	4	f-F		
BP108P	Pharmaceutical Analysis I – Practical	45	יַּיל	2	
BP109P	Pharmaceutics I – Practical	4	-	2	
BP110P	Pharmaceutical Inorganic Chemistry – Practical	42(	۸ -	2	
BP111P	Communication skills – Practical*	2	-	1	
BP112RBP	Remedial Biology – Practical*	2	_	1	
1	Total	32/34\$/36#	4	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.

<sup>\*</sup> Non University Examination (NUE)

## **BP101T. HUMAN ANATOMY AND PHYSIOLOGY-I (Theory)**

45 Hours

**Scope:** This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy.

**Objectives**: Upon completion of this course the student should be able to

- 1. Explain the gross morphology, structure and functions of various organs of the human body.
- 2. Describe the various homeostatic mechanisms and their imbalances.
- 3. Identify the various tissues and organs of different systems of human body.
- 4. Perform the various experiments related to special senses and nervous system.
- 5. Appreciate coordinated working pattern of different organs of each system

## **Course Content:**

larmac) Unit I

• Introduction to human body

Definition and scope of anatomy and physiology, levels of structural organization and body systems, basic life processes, homeostasis, basic anatomical terminology.

• Cellular level of organization

Structure and functions of cell, transport across cell membrane, cell molecule, Forms of intracellular signaling: a) Contact-dependent b)

Paracrine c) Synaptic d) Endocrine

Tissue level 6 division, cell junctions. General principles of cell communication,

Classification of tissues, structure, location and functions of epithelial, muscular and nervous and connective tissues.

**Unit II** 10 hours

• Integumentary system

Structure and functions of skin

• Skeletal system

Divisions of skeletal system, types of bone, salient features and functions of bones of axial and appendicular skeletal system Organization of skeletal muscle, physiology of muscle contraction, neuromuscular junction