

**GURU NANAK INSTITUTE OF PHARMACEUTICAL SCIENCE & TECHNOLOGY**  
**B. PHARM 1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER**

Subject	CO label	CO Statement	BTL
<b>PT 106</b>	CO 106.1	Discuss the history of profession of pharmacy.	1
	CO 106.2	Understand the basics of different dosage forms, pharmaceutical incompatibilities, and pharmaceutical calculations.	2
	CO 106.3	Apply the professional way for handling the prescription.	3
	CO 106.4	Develop various conventional dosage forms.	6
<b>PTB184</b>	CO 184.1	Relate the salient features of five kingdom of life	1, 2
	CO 184.2	Explain the basic components of anatomy and physiology of plant.	2,5
	CO 184.3	Explain the basic components of anatomy and physiology of animal with special reference to human	2,5
	CO 184.4	Interpret the human physiological parameters.	5
<b>PT111</b>	CO 111.1	Recall various terminologies and stoichiometric calculations involved in Pharmaceutical Analysis.	1
	CO 111.2	Illustrate the role of pharmaceutical analysis in the profession.	2
	CO 111.3	Distinguish the various principles of conventional techniques.	4
	CO 111.4	Evaluate the various techniques and tools available for the analysis of any chemical substance.	5
<b>PT113</b>	CO113.1	Demonstrate the importance of pharmaceutical and medicinal effects of inorganic compounds.	2
	CO113.2	Apply pharmacopeial purity and identify tests for them.	3
	CO113.3	Categorize various major intra and extra cellular fluids, electrolytes, and their role.	2
	CO113.4	Outline various aspects of radio pharmaceuticals.	2
<b>PT105</b>	CO105.1	Student would have explained the gross morphology, structure, and functions of various organs of the human body.	2
	CO105.2	They would have summarized the various homeostatic mechanisms and their imbalances.	2
	CO105.3	Students can identify the various tissues, organ, and bone of different systems of human body	3
	CO105.4	They would have learnt various techniques like blood group determination, blood pressure measurement, blood cells counting & interpret the hematological test result	4
	CO105.5	Students can compare between pathology & physiology	5
	CO105.6	Students can improve their understanding on coordinated working pattern of different organs of each system	6

**CO PO MAPPING**

<b>CO</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>	<b>PO12</b>
CO 106.1	3	3	2	2	3	1	1	-	-	1	2	2
CO 106.2	3	2	1	-	1	2	2	-	2	1	-	2
CO 106.3	3	3	3	2	3	2	2	2	-	1	-	3
CO 106.4	2	3	2	3	3	1	2	2	3	2	1	2
CO 196.1	3	3	2	2	2	2	2	2	2	2	-	2
CO196.2	2	3	-	1	1	-	2	3	-	1	1	2
CO105.1	3	2	2	2	1	1	1	1	1	1	1	1
CO105.2	3	1	1	1	1	1	1	1	1	1	1	1
CO105.3	3	3	2	1	1	1	1	1	1	1	1	1
CO105.4	3	3	2	2	2	2	1	1	1	1	1	1
CO105.5	2	2	2	1	1	1	1	1	1	1	1	1
CO105.6	3	3	3	2	2	1	1	1	1	1	1	1
COPTB18 4.1	1	2	1	2	1	-	-	-	1	1	1	3
COPTB18 4.2	2	2	1	2	1	-	1	-	1	1	1	3
COPTB18 4.3	3	2	2	1	2	2	2	2	3	3	3	3
COPTB18 4.4	3	3	2	1	3	2	2	2	3	3	3	3