



शरीरमाद्यं खलु धर्मसाधनम्

# THE ROYAL GONDWANA COLLEGE OF PHARMACY

B. Pharm & D. Pharm (DTE Code: 4680)

(Approved by PCI New Delhi, Government of Maharashtra IDTE Mumbai &

Affiliated to DBATU, Lonere & MSBTE Mumbai)

Shankarpur, P.O Khapri, Wardha Road, Nagpur- 441108(M.S)



COURSE OUTCOMES 2022-23		
DIPLOMA IN PHARMACY		
SUBJECT CODE	D. PH.ARM I - FIRST YEAR	
<b>20111</b>	<b>Pharmaceutics</b>	
	CO1	Describe about the different dosage forms and their formulation aspects
	CO2	Explain the advantages, disadvantages, and quality control tests of different dosage forms
	CO3	Discuss the importance of quality assurance and good manufacturing practices
	CO4	Basic quality control tests, concepts of quality assurance and good manufacturing practices
	CO5	Packaging and labelling requirements of different dosage form
<b>20051</b>	<b>Pharmaceutics</b>	
	CO1	Calculate the working formula from the given master formula
	CO2	Formulate the dosage form and dispense in an appropriate container
	CO3	Design the label with the necessary product and patient information
	CO4	Perform the basic quality control tests for the common dosage forms
<b>20112</b>	<b>Pharmaceutical Chemistry</b>	
	CO1	Describe the chemical class, structure and chemical name of the commonly used drugs and pharmaceuticals of both organic and inorganic nature
	CO2	Discuss the pharmacological uses, dosage regimen, stability issues and storage conditions of all such chemical substances commonly used as drugs
	CO3	Describe the quantitative and qualitative analysis, impurity testing of the chemical substances given in the official monographs
	CO4	Identify the dosage form & the brand names of the drugs and pharmaceuticals popular in the marketplace
<b>20052</b>	<b>Pharmaceutical Chemistry</b>	
	CO1	Perform the limit tests for various inorganic elements and report
	CO2	Prepare standard solutions using the principles of volumetric analysis
	CO3	Test the purity of the selected inorganic and organic compounds against the monograph standards
	CO4	Synthesize the selected chemical substances as per the standard synthetic scheme
	CO5	Perform qualitative tests to systematically identify the unknown chemical substances
<b>20113</b>	<b>Pharmacognosy</b>	
	CO1	Comprehending the basic principles of botany relevant to pharmacognosy, including plant morphology, anatomy, taxonomy, and physiology.
	CO2	Learning about medicinal plants, their identification, collection, and cultivation, along with understanding their historical and traditional uses.
	CO3	Understanding the chemical composition of medicinal plants, including the isolation and identification of plant constituents such as alkaloids, glycosides, tannins, flavonoids, etc.



# THE ROYAL GONDWANA COLLEGE OF PHARMACY

B. Pharm & D. Pharm (DTE Code: 4680)

(Approved by PCI New Delhi, Government of Maharashtra IDTE Mumbai &

Affiliated to DBATU, Lonere & MSBTE Mumbai)

Shankarapur, P.O Khapri, Wardha Road, Nagpur- 441108(M.S)



	CO4	Studying the preparation, characterization, and analysis of herbal drugs, extracts, and phytoconstituents, and understanding the various extraction techniques.
	CO5	Understanding methods for quality control, standardization, and evaluation of herbal drugs and their formulations.
	CO6	Exploring the traditional knowledge and cultural practices related to the use of medicinal plants by different communities.
<b>20053</b>	<b>Pharmacognosy</b>	
	CO1	Microscopic techniques to study plant cells, tissues, and structures relevant to pharmacognostic analysis.
	CO2	Analyzing different plant parts (leaves, roots, stems, etc.) for their specific pharmacognostic features and constituents.
	CO3	Developing skills to identify crude drugs through organoleptic, microscopic, and physicochemical examinations.
	CO4	Analyze and interpret the internal anatomical features of medicinal plants through microscopy, facilitating accurate identification and assessment essential for pharmaceutical applications
<b>20114</b>	<b>Human Anatomy and Physiology</b>	
	CO1	Describe the various organ systems of the human body
	CO2	Discuss the anatomical features of the important human organs and tissues
	CO3	Explain the homeostatic mechanisms regulating the normal physiology in the human system
	CO4	Discuss the significance of various vital physiological parameters of the human body
<b>20054</b>	<b>Human Anatomy and Physiology</b>	
	CO1	Perform the haematological tests in human subjects and interpret the results
	CO2	Record, monitor and document the vital physiological parameters of human subjects and interpret the results
	CO3	Describe the anatomical features of the important human tissues under the microscopical conditions
	CO4	Discuss the significance of various anatomical and physiological characteristics of the human body
<b>20115</b>	<b>Social Pharmacy</b>	
	CO1	Discuss about Scope, discipline, public and private health in social pharmacy.
	CO2	Explain about role of pharmacists in preventive healthcare.
	CO3	Elaborate the general role and responsibilities of pharmacists in public health.
	CO4	Describe various source of health hazards and diseases preventive measures.
	CO5	Summaries the basic knowledge of microbiology and common microorganism.



# THE ROYAL GONDWANA COLLEGE OF PHARMACY

B. Pharm & D. Pharm (DTE Code: 4680)

(Approved by PCI New Delhi, Government of Maharashtra IDTE Mumbai &

Affiliated to DBATU, Lonere & MSBTE Mumbai)

Shankarapur, P.O Khapri, Wardha Road, Nagpur- 441108(M.S)



20055	Social Pharmacy	
	CO1	Explain the role and responsibilities of pharmacists in various national health programs.
	CO2	Determine various health hazards including microbial sources.
	CO3	Compose promotional materials for public health awareness.
	CO4	Use first aid for various emergency conditions.
	CO5	Knowledge on preventive measures for various diseases.