



Program	Diploma in Pharmacy (D.Pharm)	Year - 1
Type of Course	-	
Prerequisite		
Course Objective	-	
Effective From A.Y.	2024-25	

Teaching Scheme (Contact Hours)				Examination Scheme				
Lecture	Tutorial	Lab	Credit	Theory Marks		Practical Marks		Total Marks
				External Marks (T)	Internal Marks (T)	External Marks (P)	Internal Marks (P)	
3	1	3	8	80	20	80	20	200

SEE - Semester End Examination, CIA - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.)

Course Content		T - Teaching Hours W - Weightage	
Sr.	Topics	T	W
1	Introduction to Social Pharmacy <ul style="list-style-type: none"> Definition and Social Pharmacy as a discipline and its scope in improving the public health. Role of Pharmacists in Public Health. Concept of Health -WHO Definition, various dimensions, determinants, and health National Health Policy – Indian perspective Public and Private Health System in India, National Health Mission Introduction to Millennium Development Goals, Sustainable Development Goals, FIP Development Goals 	9	12
2	Preventive healthcare - Role of Pharmacists in the following <ul style="list-style-type: none"> Demography and Family Planning Mother and child health, importance of breastfeeding, ill effects of infant milk substitutes and bottle feeding Overview of Vaccines, types of immunity and immunization Effect of Environment on Health – Water pollution, importance of safe drinking water, waterborne diseases, air pollution, noise pollution, sewage and solid waste disposal, occupational illnesses, Environmental pollution due to pharmaceuticals Psychosocial Pharmacy: Drugs of misuse and abuse – psychotropics, narcotics, alcohol, tobacco products. Social Impact of these habits on social health and productivity and suicidal behaviours 	18	24
3	Nutrition and Health <p>Basics of nutrition – Macronutrients and Micronutrients ,Importance of water and fibres in diet Balanced diet, Malnutrition, nutrition deficiency diseases, ill effects of junk foods, calorific and nutritive values of various foods, fortification of food Introduction to food safety, adulteration of foods, effects of artificial ripening, use of pesticides, genetically modified foods Dietary supplements, nutraceuticals, food supplements – indications, benefits, Drug-Food Interactions</p>	10	13
4	Introduction to Microbiology and Epidemiology <p>Introduction to Microbiology and common microorganisms Epidemiology: Introduction to epidemiology, and its applications. Understanding of terms such as epidemic, pandemic, endemic, mode of transmission, outbreak, quarantine, isolation, incubation period, contact tracing, morbidity, mortality Causative agents, epidemiology and clinical presentations and Role of Pharmacists in educating the public in prevention of the following communicable diseases:</p> <ul style="list-style-type: none"> Respiratory infections – chickenpox, measles, rubella, mumps, influenza (including Avian-Flu, H1N1, SARS, MERS, COVID-19), diphtheria, whooping cough, meningococcal meningitis, acute respiratory infections, tuberculosis, Ebola Intestinal infections – poliomyelitis, viral hepatitis, cholera, acute diarrheal diseases, typhoid, amebiasis, worm infestations, food poisoning Arthropod-borne infections - dengue, malaria, filariasis and, chikungunya Surface infections – trachoma, tetanus, leprosy STDs, HIV/AIDS 	28	37
5	Introduction to health systems and National Health programs	8	11



Course Content		T - Teaching Hours W - Weightage	
Sr.	Topics	T	W
	Introduction to health systems and all ongoing National Health programs in India, their objectives, functioning, outcome, and the role of pharmacists.		
6	Pharmacoeconomics Introduction, basic terminologies, importance of pharmacoeconomics	2	3
Total		75	100

Suggested Distribution Of Theory Marks Using Bloom's Taxonomy					
Level	Remembrance	Understanding	Application	Analyze	Evaluate
Weightage	30	30	20	10	10

NOTE : This specification table shall be treated as a general guideline for the students and the teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Course Outcomes	
At the end of this course, students will be able to:	
C01	Knowledge and understanding about roles of pharmacists in the various national health programs
C02	Knowledge and understanding about various sources of health hazards and disease preventive measures
C03	Knowledge and understanding about the healthcare issues associated with food and nutritional substances
C04	Knowledge and understanding about the general roles and responsibilities of pharmacists in public health
C05	Ability to understand roles and responsibilities of pharmacists in various National health programs, public health awareness, various health hazards, preventive measures for various diseases, first aid for various emergency conditions.

Reference Books	
1.	Social Pharmacy - Innovation and development (TextBook) By Geoff Harding, Sarah Nettleton and Kevin Taylor
2.	Social Pharmacy (TextBook) By Dr. Sanjeshkumar Rathi, Pradeep Kumar Singh, Sohansinh Vaghela, Suchita Waghmare, Vamakshi Thaker Technical Publication First edition
3.	SOCIAL PHARMACY (TextBook) By Dr. S.B. BHISE, Mrs. M.S. BHISE NIRALI PRAKASHAN
4.	Text book of Community Pharmacy Practice (TextBook) RPSGB Publication
5.	Community Pharmacy Handbook (TextBook) By Jonathan Waterfield
6.	Social and Preventive Pharmacy (TextBook) By Kirti Malviya, Dr. Satyajit Sahoo, Dharti Dasadiya, Vidhi Acharya Pee Vee 2021
7.	Websites of Ministry of Health and Family Welfare, National Health Portal
8.	Pharmacists at the Frontlines: A Novel Approach at Combating TB Visit Publications
9.	When There Is No Doctor: A Village Health Care By David Werner 2015
10.	Various WHO publications



List of Practical

1.	To study National immunization schedule for children, adult vaccine schedule, Vaccines which are not included in the National Immunization Program.
2.	To study the Marketed preparations of disinfectants and antiseptics.
3.	To study the Marketed preparations of fumigating agents, antilarval agents and mosquito repellents.
4.	To study the Oral Health and Hygiene.
5.	To study the personal hygiene and etiquettes.
6.	To study the hand washing techniques, Cough and sneeze etiquettes.
7.	To study about Menstrual hygiene and products.
8.	Various types of masks, PPE gear, wearing/using them, and disposal.
9.	RCH – reproductive and child health – nutritional aspects, relevant national health programmes.
10.	To study about Family planning devices.
11.	To study about Microscopical observation of different microbes.
12.	To study about BSL Systems (Basic Life Support), SCA (Sudden Cardiac Arrest) and FBAO (Foreign Body Airway Obstruction).
13.	To study about Cardio Pulmonary Resuscitation (CPR) and defibrillation.
14.	To study the Emergency treatment for medical emergency cases for snake bite, dog bite and insecticide poisoning.
15.	To study the Emergency treatment for medical emergency cases for fractures, burns and epilepsy.
16.	Role of Pharmacist in Disaster Management.
17.	To study the Awareness on different communicable diseases such as Covid-19, tuberculosis and malaria with their signs, symptoms and prevention.
18.	To study the Awareness on different communicable diseases such as AIDS and hepatitis with their signs, symptoms and prevention.
19.	To study about Water purification techniques, use of water testing kit, calculation of Content/percentage of KMnO ₄ , bleaching powder to be used for wells/tanks
20.	Counselling children on junk foods, balanced diets – using Information, Education and Communication (IEC) and counselling.
21.	To study about nutrition, sources of various nutrients, calculation of caloric needs, sedentary lifestyle and glycemic index of foods.
22.	To study about nutrition, sources of various nutrients, calculation of caloric needs, sedentary lifestyle and glycemic index of foods.



List of Tutorial

1.	Introduction to social pharmacy, Role of pharmacists in public health, Concept of health
2.	Various dimensions of health, Determinants of health, national health policy
3.	Public and private health system in India, national health mission, Introduction to millennium Development
4.	Pharmacoeconomics, introduction of microbiology
5.	Common microorganisms
6.	Understanding of terminologies, Chickenpox, measles, Rubella, mumps
7.	Influenza, avian flu, SARS, MERS, COVID-19, Diphtheria, Whooping cough
8.	meningococcal meningitis, acute respiratory infections, Tuberculosis, Ebola, poliomyelitis
9.	Viral hepatitis, cholera, Acute diarrheal diseases, typhoid
10.	Amebiasis, worm infestations, food poisoning
11.	dengue, chikungunya, malaria
12.	filariasis, trachoma, tetanus
13.	leprosy, Sexually Transmitted Diseases, AIDS/HIV
14.	National Health Programs, National Leprosy Eradication Programme and National Mental Health Programme, National Programme for Palliative Care and National Oral Health Programme
15.	National Organ Transplant Programme and National Programme for control of Blindness and visual Impairment, National Program for prevention and control of Fluorosis and National Tobacco Control programme, Revised National Tuberculosis Control Programme
16.	National Programme on health Care for elderly and National Programme for prevention and control of deafness, National Vector Borne Disease Control Programme, Nutrition and Health
17.	Macronutrients, micronutrients, importance of water and fiber
18.	Balanced diet, Nutrition Deficiency diseases, ill effects of Junk Foods, Caloric and nutritive values of various foods, fortification of food
19.	Introduction to Food Safety, Dietary Supplements, Food supplements indications and benefits, Drug Food interaction
20.	Demography, family planning
21.	Mother and child health, Vaccines and immunization
22.	Overview of vaccines, Types of immunity
23.	Effect of environment on health, water pollution, Effect of Environment on Health
24.	Effect of Environment on Health, Psychosocial Pharmacy
25.	Drugs of misuse and abuse, psychosocial pharmacy