



Faculty of Pharmacy
Diploma in Pharmacy (D. Pharm.)
(W. E. F.: 2023-24)
Document ID: SUTEFPHD-01

Name of Faculty	:	Faculty of Pharmacy
Name of Program	:	Diploma in Pharmacy
Course Code	:	IDPH05
Course Title	:	Social Pharmacy
Type of Course	:	Basic Pharmaceutical Sciences
Year of Introduction	:	2023-24

Prerequisite	:	Zeal to learn the subject																		
Course Objective	:	<p>This course will discuss the following aspects of</p> <ol style="list-style-type: none"> 1. Public health and national health programs 2. Preventive healthcare 3. Food and nutrition related health issues 4. Health education and health promotion 5. General roles and responsibilities of pharmacists in public health 6. National immunization programs 7. Reproductive and child health programs 8. Food and nutrition related health programs 9. Health education and promotion 10. General roles and responsibilities of the pharmacists in public health 11. First Aid for various emergency conditions including basic life support and cardiopulmonary resuscitation 																		
Course Outcomes	:	<p>Upon successful completion of this course, the students will be able to</p> <table border="1"> <tr> <td>CO1</td> <td>Discuss about roles of pharmacists in the various national health programs</td> </tr> <tr> <td>CO2</td> <td>Describe various sources of health hazards and disease preventive measures</td> </tr> <tr> <td>CO3</td> <td>Discuss the healthcare issues associated with food and nutritional substances</td> </tr> <tr> <td>CO4</td> <td>Describe the general roles and responsibilities of pharmacists in public health</td> </tr> <tr> <td>CO5</td> <td>Describe the roles and responsibilities of pharmacists in various National health programs</td> </tr> <tr> <td>CO6</td> <td>Design promotional materials for public health awareness</td> </tr> <tr> <td>CO7</td> <td>Describe various health hazards including microbial sources</td> </tr> <tr> <td>CO8</td> <td>Advice on preventive measures for various diseases</td> </tr> <tr> <td>CO9</td> <td>Provide first aid for various emergency conditions</td> </tr> </table>	CO1	Discuss about roles of pharmacists in the various national health programs	CO2	Describe various sources of health hazards and disease preventive measures	CO3	Discuss the healthcare issues associated with food and nutritional substances	CO4	Describe the general roles and responsibilities of pharmacists in public health	CO5	Describe the roles and responsibilities of pharmacists in various National health programs	CO6	Design promotional materials for public health awareness	CO7	Describe various health hazards including microbial sources	CO8	Advice on preventive measures for various diseases	CO9	Provide first aid for various emergency conditions
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Teaching and Examination Scheme

Teaching Scheme (Contact Hours)			Credits	Examination Marks				
L	T	P		Theory Marks		Practical Marks		Total Marks
03	01	0	C	SEE	CIA	SEE	CIA	
			06	80	20	80	20	200

Legends: **L**-Lecture; **T**-Tutorial/Teacher Guided Theory Practice; **P** - Practical, **C** - Credit, **SEE** - Semester End Examination, **CIA** - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.)

Course Content

Unit No.	Topics	Teaching Hours	Weightage	Mapping with COs
1	Introduction to Social Pharmacy <ul style="list-style-type: none"> • Definition and Scope. 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 indicators. • National Health Policy - Indian perspective • Public and Private Health System in India, National Health Mission • Introduction to Millennium Development Goals, Sustainable Development Goals, 	9	12.00%	CO1 CO4
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 • Psychosocial Pharmacy: Drugs of misuse and abuse - psychotropics, narcotics, alcohol, tobacco products. Social Impact of these habits on social health and 	18	24.00%	CO2 CO5 CO7 CO8

	productivity and suicidal behaviours			
3	<p>Nutrition and Health</p> <ul style="list-style-type: none"> 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 	10	13.33%	CO1 CO3 CO7
4	<p>Introduction to Microbiology and common microorganisms</p> <p>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.</p> <p>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, 	28	37.33%	CO1 CO5 CO7

	<p>malaria, filariasis and, chikungunya</p> <ul style="list-style-type: none"> • Surface infections - trachoma, tetanus, leprosy • STDs, HIV/AIDS 			
5	Introduction to health systems and all ongoing National Health programs in India, their objectives, functioning, outcome, and the role of pharmacists.	8	10.66%	CO1 CO6 CO9
6	Pharmacoeconomics - Introduction, basic terminologies, importance of pharmacoeconomics	2	2.66%	CO2 CO4

Suggested List of Experiments

Sr. No.	Name of Experiment	Teaching Hours
1	National immunization schedule for children, adult vaccine schedule, Vaccines which are not included in the National Immunization Program.	03
2	RCH - reproductive and child health - nutritional aspects, relevant national health programmes.	03
3	Family planning devices	03
4	Microscopical observation of different microbes (readymade slides)	03
5	Oral Health and Hygiene	03
6	Personal hygiene and etiquettes - hand washing techniques, Cough and sneeze etiquettes.	06
7	Various types of masks, PPE gear, wearing/ using them, and disposal.	03
8	Menstrual hygiene, products used	03
9	First Aid - Theory, basics, demonstration, hands on training, audio-visuals, and practice, BSL (Basic Life Support) Systems [SCA - Sudden Cardiac Arrest, FBAO - Foreign Body Airway Obstruction, CPR, Defibrillation (using AED) (Includes CPR techniques, First Responder).	12
10	Emergency treatment for all medical emergency cases viz. snake bite, dog bite, insecticide poisoning, fractures, burns, epilepsy etc.	03
11	Role of Pharmacist in Disaster Management.	06
12	Marketed preparations of disinfectants, antiseptics, fumigating agents, antilarval agents, mosquito repellents, etc.	03
13	Health Communication: Audio / Video podcasts, Images, Power Point Slides, Short Films, etc. in regional language(s) for mass communication / education / Awareness on 5 different communicable diseases, their signs and symptoms, and	06

	prevention.	
14	Water purification techniques, use of water testing kit, calculation of Content/percentage of KMnO ₄ , bleaching powder to be used for wells/tanks	03
15	Counselling children on junk foods, balanced diets - using Information, Education and Communication (IEC), counselling, etc. (Simulation Experiments).	03
16	Preparation of various charts on nutrition, sources of various nutrients from Locally available foods, calculation of caloric needs of different groups (e.g. child, mother, sedentary lifestyle, etc.). Chart of glycemic index of foods.	09
17	Tobacco cessation, counselling, identifying various tobacco containing products through charts/pictures	03

Suggested List of Assignments

Sr. No.	Name of Assignments	Teaching Hours
1	An overview of Women's Health Issues	03
2	Study the labels of various packed foods to understand their nutritional contents	03
3	Breastfeeding counselling, guidance - using Information, Education and Communication (IEC)	03
4	Information about the organizations working on de-addiction services in the region (city / district, etc.)	03
5	Role of a pharmacist in disaster management - A case study	03
6	Overview on the National Tuberculosis Elimination Programme (NTEP)	03
7	Drug disposal systems in the country, at industry level and citizen level	03
8	Various Prebiotics or Probiotics (dietary and market products)	03
9	Emergency preparedness: Study of local Government structure with respect to Fire, Police departments, health department	03
10	Prepare poster/presentation for general public on any one of the Health Days. e.g. Day, AIDS Day, Handwashing Day, ORS day, World Diabetes Day, World Heart Day, etc.	03
11	List of home medicines, their storage, safe handling, and disposal of unused medicines	03
12	Responsible Use of Medicines: From Purchase to Disposal	03
13	Collection of newspaper clips (minimum 5) relevant to any one topic and its submission in an organized form with collective summary based on the news items	03
14	Read a minimum of one article relevant to any theory topic, from	03



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	Pharma/Science/ or other Periodicals and prepare summary of it for submission	
15	Potential roles of pharmacists in rural India	03

Field Visits

Sr. No.	Field Visit	Duration (Hours)
1	Garbage Treatment Plant	03
2	Sewage Treatment Plant	03
3	Bio-medical Waste Treatment Plant	03
4	Effluent Treatment Plant	03
5	Water purification plant	03
6	Orphanage / Elderly-Care-Home / School and or Hostel/Home for persons with disabilities	03
7	Primary health care centre	03

The students shall be taken in groups to visit any THREE of the facilities to witness and understand the activities of such centres/facilities from the perspectives of the topics discussed in theory and/or practical courses. Individual reports from each student on their learning experience from the field visits shall be submitted.

Suggested Distribution of Theory Marks Using Bloom's Taxonomy						
Level	Remembrance	Understanding	Application	Analyse	Evaluate	Create
Weightage	11.1	33.3	33.3	00	11.1	11.2

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.

Suggested Learning Websites

Sr. No.	Name of Website
1	https://pci.nic.in/pdf/Syllabus_B_Pharm.pdf
2	https://www.aicte-india.org/downloads/bpharma.pdf
3	https://www.ipc.gov.in/
4	https://www.ayush.gov.in/
5	https://ayudmla.gujarat.gov.in/home.php
6	https://www.fda.gov/
7	https://www.pharmacopoeia.com/
8	https://ipapharma.org/
9	https://gpat.nta.nic.in/
10	https://drnaitiktrivedi.com/



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11	https://gdc4gpat.com/course/gpat/
12	https://niscpr.res.in/
13	https://delnet.in/
14	https://ihubgujarat.in/
15	https://www.ssipgujarat.in/

Reference Books

Sr. No.	Name of Reference Books
1	Social Pharmacy – Innovation and development. Geoff Harding, Sarah Nettleton and Kevin Taylor. The Pharmaceutical Press.
2	Text Book of Community Pharmacy Practice. RPSGB Publication
3	Community Pharmacy Handbook- Jonathan Waterfield
4	S Khurana, P Suresh and R Kalsi. Health Education & Community Pharmacy. S Vikas & Co
5	Social Pharmacy: Tayler, Geoffrey. Pharmaceutical Press. London.
6	Textbook by Dandiya PC, Zafer ZYK, Zafer A. Health education & Community Pharmacy. Vallabh Prakashan.
7	Websites of Ministry of Health and Family Welfare, National Health Portal
8	Pharmacists at the Frontlines: A Novel Approach at Combating
9	Where There Is No Doctor: A Village Health Care Handbook by David Werner, ,2015 updated version
10	Various WHO publications www.who.int