

**SOCIAL**

**PHARMACY**

**DR. CHANDRASHEKHAR M. SULTANPUR,  
PROFESSOR, GCP**

**Pharmacy Council of India  
New Delhi**

**“Syllabus framed under Regulation 7,  
List of prescribed equipments and  
apparatus under Appendix-A of  
The Education Regulations, 2020  
For Diploma Course in Pharmacy”**

# **SOCIAL PHARMACY – THEORY**

**Course Code: ER20-15T**

**75 Hours (3 Hours/week)**

## **Scope**

This course is designed to impart basic knowledge on public health, epidemiology, preventive care, and other social health related concepts. Also, to emphasize the roles of pharmacists in the public health programs.

## **Course Objectives:**

This course will discuss about basic concepts of

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

## **Course Outcomes:**

Upon successful completion of this course, the students will be able to

1. Discuss about roles of pharmacists in the various national health programs
2. Describe various sources of health hazards and disease preventive measures
3. Discuss the healthcare issues associated with food and nutritional substances
4. Describe the general roles and responsibilities of pharmacists in public health

## ➤ **TOPIC 1: Introduction to social pharmacy**

- Definition & Scope: Social pharmacy as a discipline and its scope in improving the public health. Role of pharmacists in public health. (2)
- Concept of health -WHO definition, various dimensions, determinants, and health indicators. (3)
- National health policy, Indian perspective (1)
- Public and private health system in India, National health system in India, National health (2)
- Introduction to millennium development goals, sustainable development goals, FIP development goals (1)

➤ **No. of hours: 9**

➤ **Hours based marks distribution: 10.55**

➤ **Weightage of marks rounded off: 11**

➤ **No. of 1 mark questions: 3**

➤ **No. of 3 mark questions: 1**

➤ **No. of 5 mark questions:1**

## ➤ **TOPIC 2: Preventive health care-Role of pharmacist in the following**

- Demography and Family Planning (3)
- Mother and child health, importance of breastfeeding, ill effects of infant milk substitutes and bottle feeding (2)
- Overview of Vaccines, types of immunity and immunization (4)
- 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 (7)
- Psychosocial Pharmacy: Drugs of misuse and abuse – psychotropics, narcotics, alcohol, tobacco products. Social Impact of these habits on social health and productivity and suicidal behaviors (2)

➤ **No. of hours: 18**

➤ **Hours based marks distribution: 21.11**

➤ **Weightage of marks rounded off: 21**

➤ **No. of 1 mark questions: 5**

➤ **No. of 3 mark questions: 2**

➤ **No. of 5 mark questions: 2**

### ➤ **TOPIC 3: Nutrition and Health**

- Basics of nutrition – Macronutrients and Micronutrients (3)
- Importance of water and fibers in diet (1)
- Balanced diet, Malnutrition, nutrition deficiency diseases, ill effects of junk foods, calorific and nutritive values of various foods, fortification of food (3)
- Introduction to food safety, adulteration of foods, effects of artificial ripening, use of pesticides, genetically modified foods (1)
- Dietary supplements, nutraceuticals, food supplements – indications, benefits, Drug-Food Interactions (2)

➤ **No. of hours: 10**

➤ **Hours based marks distribution: 11.73**

➤ **Weightage of marks rounded off: 12**

➤ **No. of 1 mark questions: 1**

➤ **No. of 3 mark questions: 2**

➤ **No. of 5 mark questions: 1**

## ➤ TOPIC 4:

Introduction to Microbiology and common microorganisms (3)

**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, . (2)

Causative agents, epidemiology, clinical presentations and The Role of Pharmacists in educating the public in prevention of the following communicable diseases:

- 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 (7)
- Intestinal infections – poliomyelitis, viral hepatitis, cholera, acute diarrheal diseases, typhoid, amebiasis, worm infestations, food poisoning (7)
- Arthropod-borne infections - dengue, malaria, filariasis and, chikungunya (4)
- Surface infections – trachoma, tetanus, leprosy (2)
- STDs, HIV/AIDS (3)

- **No. of hours: 28**
- **Hours based marks distribution: 32.85**
- **Weightage of marks rounded off: 33**
- **No. of 1 mark questions: 8**
- **No. of 3 mark questions: 5**
- **No. of 5 mark questions: 2**

## ➤ **TOPIC 5:**

Introduction to health systems and all ongoing National Health programs in India, their objectives, functioning, outcome, and the role of pharmacists.

➤ **No. of hours: 8**

➤ **Hours based marks distribution: 9.38**

➤ **Weightage of marks rounded off: 9**

➤ **No. of 1 mark questions: 1**

➤ **No. of 3 mark questions: 1**

➤ **No. of 5 mark questions: 1**

➤ **TOPIC 6:**

Pharmacoeconomics – Introduction, basic terminologies, importance of Pharmacoeconomics

➤ **No. of hours: 2**

➤ **Hours based marks distribution: 2.34**

➤ **Weightage of marks rounded off: 2**

➤ **No. of 1 mark questions: 2**

➤ **No. of 3 mark questions: –**

➤ **No. of 5 mark questions: –**

# **SOCIAL PHARMACY – PRACTICAL**

**Course Code: ER20-15P**

**75 Hours (3 Hours/week)**

## **Scope**

This course is designed to provide simulated experience in various public health and social pharmacy activities.

## **Course Objectives**

This course will train the students on various roles of pharmacists in public health and social pharmacy activities in the following areas:

1. National immunization programs
2. Reproductive and child health programs
3. Food and nutrition related health programs
4. Health education and promotion
5. General roles and responsibilities of the pharmacists in public health
6. First Aid for various emergency conditions including basic life support and cardiopulmonary resuscitation

## Course Outcomes

Upon successful completion of this course, the students will be able to

1. Describe the roles and responsibilities of pharmacists in various National health programs
2. Design promotional materials for public health awareness
3. Describe various health hazards including microbial sources
4. Advice on preventive measures for various diseases
5. Provide first aid for various emergency conditions

**Note:** Demonstration / Hands-on experience / preparation of charts / models / promotional materials / role plays / enacting / e-brochures / e-flyers / podcasts / video podcasts / any other innovative activities to understand the concept of various elements of social pharmacy listed here. (At least one activity to be carried out for each one of the following):

## PRACTICALS

1. National immunization schedule for children, adult vaccine schedule, Vaccines which are not included in the National Immunization Program.
2. RCH – reproductive and child health – nutritional aspects, relevant national health programmes.

3. Family planning devices
4. Microscopical observation of different microbes (readymade slides)
5. Oral Health and Hygiene
6. Personal hygiene and etiquettes – hand washing techniques, Cough and sneeze etiquettes.
7. Various types of masks, PPE gear, wearing/using them, and disposal.
8. Menstrual hygiene, products used
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)
10. Emergency treatment for all medical emergency cases viz. snake bite, dog bite, insecticide poisoning, fractures, burns, epilepsy etc.
11. Role of Pharmacist in Disaster Management.
12. Marketed preparations of disinfectants, antiseptics, fumigating agents, antilarval agents, mosquito repellents, etc
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 prevention.

14. Water purification techniques, use of water testing kit, calculation of Content/percentage of  $\text{KMnO}_4$ , bleaching powder to be used for wells/tanks
15. Counselling children on junk foods, balanced diets – using Information, Education and Communication (IEC), counselling, etc. (Simulation Experiments).
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.
17. Tobacco cessation, counselling, identifying various tobacco containing products through charts/pictures

## **ASSIGNMENT**

The students shall be asked to submit the written assignments on the following topics (One assignment per student per sessional period. i.e., a minimum of THREE assignments per student)

1. An overview of Women's Health Issues
2. Study the labels of various packed foods to understand their nutritional contents
3. Breastfeeding counselling, guidance – using Information, Education and Communication (IEC)
4. Information about the organizations working on de-addiction services in the region (city / district, etc.)

5. Role of a pharmacist in disaster management – A case study
6. Overview on the National Tuberculosis Elimination Programme (NTEP)
7. Drug disposal systems in the country, at industry level and citizen level
8. Various Prebiotics or Probiotics (dietary and market products)
9. Emergency preparedness: Study of local Government structure with respect to Fire, Police departments, health department
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.
11. List of home medicines, their storage, safe handling, and disposal of unused medicines
12. Responsible Use of Medicines: From Purchase to Disposal
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
14. Read a minimum of one article relevant to any theory topic, from Pharma /Science/ or other Periodicals and prepare summary of it for submission
15. Potential roles of pharmacists in rural India

## FIELD VISITS

The students shall be taken in groups to visit any THREE of the following facilities to witness and understand the activities of such centers/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.

1. Garbage Treatment Plant
2. Sewage Treatment Plant
3. Bio-medical Waste Treatment Plant
4. Effluent Treatment Plant
5. Water purification plant
6. Orphanage / Elderly-Care-Home / School and or Hostel/Home for persons with disabilities
7. Primary health care center

# Guidelines for the conduct of theory examinations

## Sessional Examinations

There shall be two or more periodic sessional (internal assessment) examinations during each academic year. The duration of the sessional exam shall be 90 minutes. The highest aggregate of any two performances shall form the basis of calculating the sessional marks. The scheme of the question paper for theory sessional examinations shall be as given below.

I. Long Answers (Answer 3 out of 4) 3 x 5 = 15

II. Short Answers (Answer 5 out of 6) 5 x 3 = 15

III. Objective type Answers (Answer all 10 out of 10) 10 x 1 = 10

(Multiple Choice Questions / Fill-in the Blanks / One word OR  
one Sentence questions)

Total = 40 marks

## Internal assessment:

The marks secured by the students out of the total 40 shall be reduced to 20 in each sessional, and then the internal assessment shall be calculated based on the best two averages for 20 marks.

## Final Board / University Examinations

The scheme of the question paper for the theory examinations conducted by the examining authority (Board / University) shall be as given below. The duration of the final examination shall be 3 hours.

I. Long Answers (Answer 6 out of 7)	= 6 x 5 = 30
II. Short Answers (Answer 10 out of 11)	= 10 x 3 = 30
III. Objective type Answers (Answer all 20)	= 20 x 1 = 20
(Multiple Choice Questions / Fill-in the Blanks / One word OR one Sentence questions)	
Total	= 80 marks

# Guidelines for the conduct of practical examinations

**Sessional Examinations** There shall be two or more periodic sessional (internal assessment) practical examinations during each academic year. The duration of the sessional exam shall be three hours. The highest aggregate of any two performances shall form the basis of calculating the sessional marks. The scheme of the question paper for practical sessional examinations shall be as given below

- |      |                              |       |
|------|------------------------------|-------|
| I.   | Synopsis                     | = 10  |
| II.  | Experiments                  | = 50* |
| III. | Viva voce                    | = 10  |
| IV.  | Practical Record Maintenance | = 10  |

Total = 80 marks

\* The marks for the experiments shall be divided into various categories, viz. major experiment, minor experiment, spotters, etc. as per the requirement of the course

## Internal assessment:

The marks secured by the students out of the total of 80 shall be reduced to 10 in each sessional, and then the internal assessment shall be calculated based on the best two averages for 10 marks from the sessional and other 10 marks shall be awarded as per the details given below.

Actual performance in the sessional examination	= 10 marks
Assignment marks (Average of three)	= 5 marks*
Field Visit Report marks (Average for the reports)	= 5 marks\$
Total	= 20 marks

**\*, \$ Only for the courses given with both assignments and field visit/s**

- Note:** 1. For the courses having either assignments or field visit/s, the assessments of assignments or field visit/s shall be done directly for 10 marks and added to the sessional marks.
2. For the courses not having both assignment and field visit, the whole 20 marks shall be calculated from the sessional marks.

## Final Board / University Examinations

The scheme of the question paper for the practical examinations conducted by the examining authority (Board / University) shall be as given below. The duration of the final examination shall be 3 hours.

I.	Synopsis	= 10
II.	Experiments	= 60*
III.	Viva voce	= 10
	Total	= 80 marks

\* The marks for the experiments shall be divided into various categories, viz. major experiment, minor experiment, spotters, etc. as per the requirement of the course.

Thank you