DIPLOMA IN PHARMACY – 1st YEAR LESSON PLAN SOCIAL PHARMACY – THEORY

Course Code: ER20-15T

75 Hours (3 Hours/week)

Name of Tutor/Teacher: Dr. Shiv Kumar, Lecturer in Pharmacy Schedule of Classes: Theory: Tuesday: 10.00 – 11.00 AM, Tuesday: 12.00 – 01.00 PM,

Thursday: 12.00 – 01.00 PM, Monday: 12.00 – 01.00 PM (Tutorial)

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 beable to C01.5T.1: Discuss about roles of pharmacists in the various national health programs.
C01.5T.2: Describe various sources of health hazards and disease preventive measures.
C01.5T.3: Discuss the healthcare issues associated with food and nutritional substances.
C01.5T.4: Describe the general roles and responsibilities of pharmacists in public health.

Chapter	Торіс	Date	Hour	со	РО	Coverage	Reason for discrepancy	Plans for compensation in backlog	Taught by	Verified by
	Definition and Scope: Social Pharmacy as a discipline and its scope in improving the public health.		1							
Chapter Topic Date Hour CO PO Coverage discrepand Definition and Scope: Social Pharmacy as a discipline and its scope in improving the public 1 Image: Coverage Image: Coverage<										
	Concept of Health- determinants		4							
	Concept of Health- health indicators		5							
1 mar macy	National Health Policy – Indian perspective		6							
	Public and Private Health System in India		7							
	NationalHealth Mission		8							
	Goals, Sustainable Development Goals, FIP		9							
	Demography and Family Planning		1							
	Demography and Family Planning		2							
	Demography and Family Planning		3							
			4							
Preventive			5							
	Overview of Vaccines,		6							
			7							
			9							
Ionowing			10							
	Importance of safe drinking water		11							
	Effect of Environment on Health – waterborne diseases		12							

Lesson Plan for Community Pharmacy & Management (D. Pharm.-Second Year)

Chapter	Торіс	Date	Hour	СО	РО	Coverage	Reason for discrepancy	Plans for compensation in backlog	Taught by	Verified by
	Effect of Environment on Health – air pollution		13							
Chapter Topic Date Hour CO PO Coverage Reason for discrepancy com in Effect of Environment on Health - air 13										
Preventive			15				Coverage discremancy compensation hy by			
Role of	occupational illnesses, Environmental pollution		16							
	and abuse – psychotropics, narcotics,		17							
	these habits on social health and		18							
			1							
			2							
			3							
	Importance of water and fibres in diet		4							
3	Balanced diet, Malnutrition		5							
Nutrition and			6							
neutin	fortification of food		7							
	effects of artificial ripening, use of pesticides, geneticallymodified foods		8	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14 14 15 15 16 11 16 11 16 11 <						
	althcare - Role of harmacists in the following Effect of Environment on Health – occupational illnesses, Environmental pollution due to pharmaceuticals 16 Psychosocial Pharmacy: Drugs of misuse and abuse – psychotropics, narcotics, alcohol, tobacco products. 17 Psychosocial Pharmacy: Social Impact of these habits on social health and productivity and suicidal behaviours 18 Basics of nutrition – Macronutrients and Micronutrients 1 Basics of nutrition – Macronutrients and Micronutrients 2 Importance of water and fibres in diet 4 Balanced diet, Malnutrition foods, colification of food Introduction to food safety, adulteration of foods, effects of artificial ripening, use of pesticides, geneticallymodified foods 7 Dietary supplements, nutraceuticals, food 9 9									
	supplements		10							

Lesson Plan for Community Pharmacy & Management (D. Pharm.-Second Year)

Chapter	Торіс	Date	Hour	со	PO	Coverage	Reason for discrepancy	Plans for compensation in backlog	Taught by	Verified by
	Introduction to Microbiology and common microorganisms		1							
	Introduction to Microbiology and common microorganisms		2							
	Introduction to Microbiology and common microorganisms		3							
	Epidemiology: Introduction to epidemiology, and its applications.		4							
	Epidemiology: Understanding of terms such as epidemic, pandemic, endemic, mode of transmission, outbreak, quarantine, isolation, incubation period, contact tracing, morbidity, mortality.		5							
4	Causative agents, epidemiology and clinical presentations and Role of Pharmacists in educating the public in prevention of the following communicable diseases: Respiratory infections – Chickenpox, measles, rubella, mumps		6							
	Respiratory infections – Influenza (including Avian-Flu, H1N1, SARS)		7							
	Respiratory infections – Influenza (including MERS, COVID-19)		8							
	Respiratory infections – Diphtheria, Whooping cough, Ebola		9							
	Respiratory infections – Meningococcal meningitis		10							
	Respiratory infections – Acute Respiratory Infections		11							
	Respiratory infections – Tuberculosis		12							
	Intestinal Infections – Poliomyelitis, Amebiasis		13							
	Intestinal Infections – Viral hepatitis		14							

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Chapter	Торіс	Date	Hour	CO	РО	Coverage	Reason for discrepancy	Plans for compensation in backlog	Taught by	Verified by
	Intestinal Infections – Cholera		15							
	Intestinal Infections – Acute diarrheal diseases		16							
	Intestinal Infections – Typhoid		17							
	Intestinal Infections – Worm infestations		18							
	Intestinal Infections – Food poisoning		19							
	Arthropod-borne infections - Dengue		20							
4	Arthropod-borne infections - Malaria		21							
	Arthropod-borne infections - Filariasis		22							
	Arthropod-borne infections – Chikungunya		23							
	Surface infections – Trachoma, Tetanus		24							
	Surface infections – Leprosy		25							
	STDs		26							
	STDs		27							
	HIV/AIDS		28							
5	Introduction to Health Systems		1							
	All ongoing NationalHealth programs in India,		2							
	their objectives, functioning, outcome, and the		3							
	role of pharmacists.		4							
			5							
			6							
			6							
			8							
6	Pharmacoeconomics – Introduction, Basic terminologies		1							
	Pharmacoeconomics–ImportanceofPharmacoeconomics–		2							

SOCIAL PHARMACY – PRACTICAL

Course Code: ER20-15P

75 Hours (3 Hours/week/Batch)

Name of Tutor/Teacher: Dr. Shiv Kumar, Lecturer in Pharmacy

Schedule of Classes: Practical: Tuesday: 02.00 – 05.00 PM, Wednesday: 02.00 – 05.00 PM,

Friday: 02.00 – 05.00 PM

Scope: This course is designed to provide simulated experience in various publichealth 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 beable to

- **CO1.5T.1:** Describe the roles and responsibilities of pharmacists in various National Health programs.
- **C01.5T.2:** Design promotional materials for Public Health awareness.
- **C01.5T.3:** Describe various health hazards including microbial sources.
- **C01.5T.4:** Advice on preventive measures for various diseases.

C01.5T.5: Provide first aid for various emergency conditions

Practical

Note: Demonstration/Hands-on experience/preparation of charts/models/promotional materials/roleplays/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):

Exp. No.	Experiment	Batch	Date	со	РО	Coverage	Reason for discrepancy	Plans for compensation in backlog	Taught by	Verified by
	National immunization schedule for children, adult	Α								
1	vaccine schedule, Vaccineswhich are not included in the	В								
	National Immunization Program.	С								
	RCH – Reproductive and Child Health – Nutritional									
2	aspects, relevant national health programmes.									
3	Family planning devices									
		C								
		A								
4	Microscopical observation of different microbes (readymade slides)	В								
	(readymade shues)	С								
		Α								
5	Oral Health and Hygiene	В								
6	Personal hygiene and etiquettes — hand washing techniques, Cough andsneeze etiquettes	В								
	techniques, cough andsheeze enquettes	С								
		Α								
7	Various types of masks, PPE gear, wearing/using them, and disposal	В								
		С								
		Α								
8	Menstrual hygiene, products used	В								
	First Aid — Theory, basics, demonstration, hands on	В								
9	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).	Batch Date CO PO Coverage discrepancy compensation in backlog by adult n the B								

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Exp. No.	Experiment	Batch	Date	со	РО	Coverage	Reason for discrepancy	Plans for compensation in backlog	Taught by	Verified by
	Emergency treatment for all medical emergency	Α								
10	cases viz. snake bite, dog bite, insecticide poisoning,	В								
	fractures, burns, epilepsy etc.	С								
		Α								
11	Role of Pharmacist in Disaster Management.	В								
		С								
	Marketed preparations of disinfectants, antiseptics,	Α								
12	fumigating agents, antilarval agents, mosquito repellents,	В								
	etc.	С								
	Health Communication: Audio /Video podcasts, Images, Power Point Slides, Short Films, etc. in regional language(s) for mass	А								
13	communication/education/Awareness on 5 different communicable diseases, their signs and	В								
	symptoms, and prevention.	С								
	Water purification techniques, use of water testing kit,	Α								
14	calculation of Content/percentage of KMnO4, bleaching	В								
	powder to be used for wells/tanks	С								
	Counselling children on junk foods, balanced diets -	Α								
15	using Information, Education and Communication (IEC),	B								
	counselling, etc. (Simulation Experiments)	С								
	Preparation of various charts on nutrition, sources of various nutrients from Locally available foods, calculation	A B								
16	of caloric needs of different groups (e.g. child, mother,									
	sedentary lifestyle, etc.). Chart of glycemic index of foods.	С								
	Tobacco cessation, counselling, identifying various tobacco	Α								
17	containingproducts through charts/pictures	В								
	containing products through charts/ pictures	С								

Assignments

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 nutritionalcontents
- 3. Breastfeeding counselling, guidance using Information, Education andCommunication (IEC)
- 4. Information about the organizations working on de-addiction services in theregion (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 Visit

The students shall be taken in groups to visit any THREE of the following 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.

- 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 withdisabilities
- 7. Primary health care centre

SUGGESTED READINGS

- Social Pharmacy Innovation and development. Geoff Harding, SarahNettleton 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. SVikas & Co
- 5. Social Pharmacy: Tayler, Geoffrey. Pharmaceutical Press. London.
- 6. Textbook by Dandiya PC, Zafer ZYK, Zafer A. Health education & CommunityPharmacy. Vallabh Prakashan.
- 7. Websites of Ministry of Health and Family Welfare, National Health Portal
- 8. Where There Is No Doctor: A Village Health Care Handbook by David Werner ,2015 updated version
- 9. Various WHO publications <u>www.who.int</u>
