

SIRDA POLYTECHNIC

LESSON PLANName of Faculty: *Reena Kumari*

Session- 2024-2025

Subject Name: pharmaceutics

Subject Code: ER20-11T

Course: D. Pharmacy

Semester/Year: 1st

Total Number of Lectures: 75

Each lecture: 1

Syllabus Coverage Schedule

Unit No.	Lecture No.	Particulars/Topic Details	Date	Teaching Aids to be used	Assignment Detail
Chapter -1	1	History of the profession of Pharmacy in India in relation to Pharmacy education	28/08/25	chalk & duster	
	2	History of the profession of Pharmacy in industry	29/08/25	"	
	3	pharmacy practice, and various professional associations.	30/08/25	"	
	4	Pharmacy as a-career	05/09/25	"	
	5	Pharmacopoeia: Introduction to IP	06/09/25	"	
	6	Introduction to BP, USP	11/09/25	"	
	7	NF and Extra Pharmacopoeia. Salient features of Indian Pharmacopoeia	12/09/25	"	
Chapter-2 Packaging materials	8	Introduction and Importance of packaging material	18/09/25	"	
	9	types of packaging material	19/09/25	"	
	10	selection criteria of packaging material	20/09/25	"	
	11	advantages and disadvantages of glass	24/10/25	"	
	12	plastic, metal, rubber as packaging materials	04/10/25	"	
Chapter-3 Pharmaceutical aids	13	Introduction of pharmaceutical aids	09/10/25	"	
	14	Various types of pharmaceutical aids used in formulation Organoleptic	16/10/25	"	

		(Colouring, flavouring, and sweetening) agents		Chalk & Duster.	
	15	Preservatives: Definition, types with examples and uses	18/10/25	"	
Chapter-4 Unit operations	16	Definition, objectives/applications, principles, construction, and workings of hammer mill	24/10/25	"	
	17	Definition, objectives/applications, principles, construction, and workings of Ball mill	25/10/25	"	
	18	Size separation: Classification of powders according to IP	30/10/25	"	
	19	Definition, objectives/applications, principles, construction, and workings of Cyclone separator	31/10/25	"	
	20	Sieves and standards of sieves	7/11/25	"	
	21	Mixing: Double cone blender, Turbine mixer, Triple roller mill and Silverson mixer homogenizer	14/11/25	"	
	22	Filtration: Theory of filtration, membrane filter and sintered glass filter	15/11/25	"	
	23	Drying: working of fluidized bed dryer and process of freeze drying	20/11/25	"	
	24	Extraction: Definition, Classification, method, and applications	21/11/25	"	
Chapter-5 Tablets	25	Introduction of tablet, advantage and disadvantage	4/12/25	"	
	26	Types of tablet coated and uncoated	4/12/25	"	
	27	various modified tablets (sustained release, extended-release	05/12/25	"	

	28	fast dissolving, multilayered, etc.	5/12/25	chalk & dusts	
	29	Excipients used in formulation of tablet	6/12/25	"	
	30	Preformulation study for selection of API	6/12/25	"	
	31	Defect in tablets and how to overcome the defects	11/12/25	"	
	32	Evaluation parameter of tablets	11/12/25	"	
Capsules	33	Introduction and advantage and disadvantage of capsules	12/12/25	"	
	34	Types: hard gelatin and soft gelatin	18/12/25	"	
	35	Defects in capsule	18/12/25	"	
	36	Evaluation parameter of capsules	19/12/25	"	
Liquid oral preparations	37	Introduction and advantage and disadvantage of liquid oral preparation.	20/12/25	"	
	38	Formulation method of solution, syrup	26/12/25	"	
	39	Introduction advantage and disadvantage of elixir	27/12/25	"	
	40	Introduction of emulsion its type, formulation and defects	29/1/26	"	
	41	Suspension its types, method of formulation and defects	30/1/26	"	
	42	dry powder for reconstitution	31/1/26	"	
Topical preparations	43	Introduction, advantage and disadvantage, types, excipients, and method of formulation of ointments	5/2/26	"	
	44	Introduction, advantage and disadvantage, types, excipients, and method of formulation of cream	6/2/26	"	
	45	Introduction, advantage and disadvantage, types, excipients, and method of formulation of pastes	7/2/26	"	
	46	Introduction, advantage and disadvantage, types, excipients, and method of formulation of gels	12/2/26	"	
	47	Introduction, advantage and disadvantage, types, excipients, and method of formulation of iniments	13/2/26	"	
	48	Introduction, advantage and disadvantage, types, excipients, and method of formulation of lotions	20/2/26	"	

	49	Introduction , advantage and disadvantage , types , excipients, and method of formulation of suppositories	21/2/26	Chalk & Duster	
	50	Introduction , advantage and disadvantage , types , excipients, and method of formulation of pessaries	26/2/26	"	
	51	Introduction of Nasal preparations	27/2/26	"	
	52	Introduction of Ear preparations	28/2/26	"	
Powders and granules	53	Types , uses , and formulation of Insufflations	5/3/26	"	
	54	dusting powders,its method of formulations	6/3/26	"	
	55	effervescent powders, and effervescent granules	7/3/26	"	
Sterile formulations	56	Introduction and importance of Sterile formulations	19/3/26	"	
	57	Excipients use in sterile formulation	20/3/26	"	
	58	Injectables, eye drops	27/3/26	"	
	59	eye ointments	28/3/26	"	
	60	Defects and how to overcome its defects	2/4/26	"	
	61	Qualitative testing of Sterile formulations	4/4/26	"	
Immunological products:	62	Introduction of immunological products	9/4/26	"	
	63	Sera, vaccines	10/4/26	"	
	64	toxoids	16/4/26	"	
	65	Method of preparation	17/4/26	"	
Chapter-6 Basic structure, layout, sections, and activities of pharmaceutical manufacturing plants	66	Definition and concepts of quality control and quality assurance	18/4/26	"	
	67	current good manufacturing practice (cGMP)	23/4/26	"	
	68	Sop's used in pharmaceutical practices	24/4/26	"	
	69	Errors during manufacturing	25/4/26	"	
	70	Introduction to the concept of calibration and validation	30/4/26	"	

Chapter-7 Novel drug delivery	71	Introduction of NDDS	11/5/20	Challenges & Durgs	
	72	Classification of various NDDS Techniques	14/5/20	"	
	73	Importance's and application of NDDS.	15/5/20	"	
	74	Methods of formulations	16/5/20	"	
	75	advantages, and challenges	21/5/20	"	

Reena

Signature of the subject Teacher

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SIRDA POLYTECHNIC

LESSON PLAN

Name of Faculty *Nitin Chandel.*

Session-2024-2025

Subject Name: Pharmaceutical chemistry

Subject Code: ER20-12T

Course: D. Pharmacy

Semester/Year: 1st

Total Number of Lectures: 75

Each lecture: 1

Syllabus Coverage Schedule

Unit No.	Lesson No.	Particulars/Topic Details	Date	Teaching Aids to be used	Assignment Detail
Chapter -1	1	Introduction to Pharmaceutical chemistry: Scope and objectives	29/08/25 30/08/25	Chalk & Duster	
	2	Sources and types of errors	5/09/25	"/	
	3	Accuracy, precision, significant figures	06/09/25	"/	
	4	Impurities in Pharmaceuticals Source and effect of impurities in Pharmacopoeial substances	08/09/25 12/09/25	"/	
	5	importance of limit test	19/09/25	"/	
	6	Principle and procedures of Limit tests for chlorides	20/09/25 23/09/25	"/	
	7	Principle and procedures of Limit tests for sulphates, iron	26/09/25	"/	
	8	Principle and procedures of Limit tests for heavy metals and arsenic	27/09/25 30/09/25	"/	
Chapter-2	9	Volumetric analysis: Fundamentals of volumetric analysis	3/10/25	"/	
	10	Acid-base titration	4/10/25	"/	
	11	non-aqueous titration	10/10/25	"/	
	12	precipitation titration	14/10/25	"/	
	13	complexometric titration	17/10/25	"/	
	14	redox titration	18/10/25	"/	
	15	Gravimetric analysis	24/10/25	"/	
	16	Principle and method	25/10/25	"/	
Chapter-3	17	Pharmaceutical formulations, market preparations, storage conditions and uses of Haematinics: Ferrous sulphate, Ferrous fumarate, Ferric ammonium citrate	28/10/25 31/10/25	"/	
	18	Ferrous ascorbate, Carbonyl	4/11/25	"/	

		iron	7/11/25	11	
	19	Gastro-intestinal Agents: Antacids :Aluminium hydroxide gel, Magnesium hydroxide	11/11/25 14/11/25	11	
	20	Magaldrate, Sodium bicarbonate, Calcium Carbonate, Acidifying agents, Adsorbents, Protectives, Cathartics	15/11/25 18/11/25	11	
	21	Topical agents: Silver Nitrate, Ionic Silver, Chlorhexidine Gluconate, Hydrogen peroxide	21/11/25	11	
	22	Boric acid, Bleaching powder, Potassium permanganate	22/11/25	11	
	23	Dental products: Calcium carbonate, Sodium fluoride, Denture cleaners, Denture adhesives, Mouth washes Medicinal gases: Carbon dioxide, nitrous oxide, oxygen	02/12/25	11	
Chapter-4	24	Introduction to nomenclature of organic chemical systems	05/12/25	11	
	25	heterocyclic compounds containing up to Three rings	6/12/25	11	
Chapter-5	26	Anaesthetics: Thiopental Sodium*, Ketamine Hydrochloride*, Propofol	12/12/25	11	
	27	Sedatives and Hypnotics: Diazepam*, Alprazolam*, Nitrazepam, Phenobarbital	16/12/25	11	
	28	Antipsychotics: Chlorpromazine Hydrochloride*, Haloperidol*, Risperidone	19/12/25	11	
	29	Sulpiride*, Olanzapine, Quetiapine, Lurasidone	20/12/25	11	
	30	Anticonvulsants: Phenytoin*, Carbamazepine*, Clonazepam, Valproic Acid	23/12/25	11	
	31	Gabapentin*, Topiramate, Vigabatrin, Lamotrigine	26/12/25	11	
	32	Anti-Depressants: Amitriptyline Hydrochloride*, Imipramine Hydrochloride	27/12/25	11	
	33	Fluoxetine*, Venlafaxine, Duloxetine, Sertraline,	30/12/25	11	
	34	Citalopram, Escitalopram, Fluvoxamine, Paroxetine	29/1/26	11	

Chapter-6	35	Sympathomimetic Agents: Direct Acting: NorEpinephrine*, Epinephrine, Phenylephrine	30/1/26	11	
	36	Dopamine*, Terbutaline, Salbutamol (Albuterol), Naphazoline	31/1/26	4	
	37	Tetrahydrozoline. Indirect Acting Agents: Hydroxy Amphetamine, Pseudoephedrine. Agents With Mixed Mechanism: Ephedrine, Metaraminol	3/2/26	11	
	38	Adrenergic Antagonists: Alpha Adrenergic Blockers: Tolazoline, Phentolamine Phenoxybenzamine	6/2/26	11	
	39	Prazosin. Beta Adrenergic Blockers: Propranolol*, Atenolol*, Carvedilol	7/2/26	11	
	40	Cholinergic Drugs and Related Agents: Direct Acting Agents: Acetylcholine*, Carbachol, Pilocarpine	10/2/26	11	
	41	Cholinesterase Inhibitors: Neostigmine*, Edrophonium Chloride, Tacrine Hydrochloride, Pralidoxime Chloride, Echothiopate Iodide	13/2/26	11	
	42	Cholinergic Blocking Agents: Atropine Sulphate*, Ipratropium Bromide	17/2/26	4	
	43	Synthetic Cholinergic Blocking Agents: Tropicamide, Cyclopentolate Hydrochloride, Clidinium Bromide, Dicyclomine Hydrochloride	20/2/26	11	
Chapter-7	44	Anti-Arrhythmic Drugs: Quinidine Sulphate, Procainamide Hydrochloride	21/2/26	11	
	45	Verapamil, Phenytoin Sodium*, Lidocaine Hydrochloride	24/2/26	11	
	46	Lorcaidine Hydrochloride, Amiodarone and Sotalol	24/2/26	11	
	47	Anti-Hypertensive Agents: Propranolol*, Captopril*, Ramipril, Methyldopate Hydrochloride, Clonidine Hydrochloride	27/2/26	11	
	48	Hydralazine Hydrochloride, Nifedipine, Antianginal Agents: Isosorbide Dinitrate	28/2/26	11	

Chapter-8	49	Diuretics: Acetazolamide, Frusemide*, Bumetanide, Chlorthalidone	6/3/26	U	
	50	Benzthiazide, Metolazone, Xipamide, Spironolactone	7/3/26	U	
Chapter-9	51	Hypoglycemic Agents: Insulin and Its Preparations, Metformin	17/3/26	U	
	52	Glibenclamide*, Glimepiride, Pioglitazone	20/3/26	U	
	53	Repaglinide, Gliflozins, Gliptins	20/3/26	U	
Chapter-10	54	Analgesic And Anti-Inflammatory Agents: Morphine Analogues, Narcotic Antagonists	24/3/26	U	
	55	Nonsteroidal AntiInflammatory Agents (NSAIDs) - Aspirin*, Diclofenac, Ibuprofen*, Piroxicam	27/3/26	U	
	56	Celecoxib, Mefenamic Acid, Paracetamol*, Aceclofenac	28/3/26	U	
Chapter-11	57	Antifungal Agents: Amphotericin-B, Griseofulvin, Miconazole, Ketoconazole*, Itraconazole, Fluconazole*, Naftifine Hydrochloride	31/3/26	U	
	58	Urinary Tract Anti-Infective Agents: Norfloxacin, Ciprofloxacin, Ofloxacin*, Moxifloxacin	4/4/26	U	
	59	Anti-Tubercular Agents: INH*, Ethambutol, Para Amino Salicylic Acid, Pyrazinamide	7/4/26	U	
	60	Rifampicin, Bedaquiline, Delamanid, Pretomanid*	10/4/26	U	
	61	Antiviral Agents: Amantadine Hydrochloride, Idoxuridine, Acyclovir*, FoscarnetFoscarnet, Zidovudine, Ribavirin, Remdesivir, Favipiravir	17/4/26	U	
	62	Antimalarials: Quinine Sulphate, Chloroquine Phosphate*, Primaquine Phosphate, Mefloquine*, Cycloguanil, Pyrimethamine, Artemisinin	18/4/26	U	
	63	Sulfonamides: Sulfanilamide, Sulfadiazine, Sulfamethoxazole,	21/4/26	U	
	64	Sulfacetamide*, Mafenide Acetate, Cotrimoxazole, Dapsone	24/4/26	U	
Chapter-12	65	Introduction of Antibiotics, its types ,Penicillin G,	25/4/26	U	

	66	SAR and uses of Amoxicillin	25/4/26	CC	
	67	SAR and uses of Cloxacillin, Streptomycin	28/4/26	CC	
	68	Tetracyclines: Doxycycline	2/5/26	CC	
	69	SAR and uses of Minocycline	12/5/26	CC	
	70	Macrolides: Erythromycin	15/5/26	CC	
	71	SAR and uses of Azithromycin	16/5/26	CC	
	72	Miscellaneous: Chloramphenicol* Clindamycin	19/5/26	CC	
Chapter-13	73	Anti-Neoplastic Agents: Cyclophosphamide*, Busulfan, Mercaptopurine, Fluorouracil	22/5/26	CC	
	74	Methotrexate, Dactinomycin, Doxorubicin Hydrochloride,	23/5/26	CC	
	75	Vinblastine Sulphate, Cisplatin*, Dromostanolone Propionate	26/5/26	CC	

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SIRDA POLYTECHNIC

LESSON PLAN

Name of Faculty *Lalit Kumar.*

Session-2024-2025

Subject Name: pharmacognosy

Subject Code: ER20-13T

Course: D. Pharmacy

Semester/Year: 1st

Total Number of Lectures:75

Each lecture: 1

Syllabus Coverage Schedule

Unit No.	Lecture No.	Particulars/Topic Details	Date	Teaching Aids to be used	Assignment Detail
Chapter -1	1	Definition, history of pharmacognosy	4/9/25 8/9/25	Chalk & Dusters	
	2	present status and scope of pharmacognosy	9/9/25		
Classification of drugs: 2	3	Alphabetical and Taxonomical classification of crude drugs	10/9/25		
	4	Morphological classification of crude drugs	15/9/25 17/9/25		
	5	Pharmacological and chemical classification of crude drugs	22/9/25		
	6	Chemo-taxonomical classification of crude drugs	23/9/25 29/9/25		
Chapter-3 Quality control of crude drugs	7	Introduction of Drug adulteration .	30/9/25		
	8	Types of adulteration	01/10/25		
	9	Different methods of adulteration of crude drugs	06/10/25		
	10	Evaluation parameter of crude drugs	08/10/25 18/10/25		
	11	Morphological or organoleptic evaluation of crude drugs	14/10/25 15/10/25		
	12	Chemical evaluation of crude drugs and phytochemical investigation.	27/10/25 23/10/25		
Chapter - 4	13	Brief outline of occurrence, distribution, isolation, identification tests, therapeutic activity and pharmaceutical applications of alkaloids	29/10/25 03/11/25		
	14	distribution, isolation, identification tests, therapeutic activity and pharmaceutical applications	4/11/25 10/11/25		

		of terpenoids		Chalk & Duster	
	15	distribution, isolation, identification tests, therapeutic activity and pharmaceutical applications of glycosides	11/11/25 12/11/25	11	
	16	distribution, isolation, identification tests, therapeutic activity and pharmaceutical applications of volatile oils	17/11/25 18/11/25	11	
	17	distribution, isolation, identification tests, therapeutic activity and pharmaceutical applications of tannins	19/11/25	11	
	18	distribution, isolation, identification tests, therapeutic activity and pharmaceutical applications of resins.	1/12/25	11	
Chapter -5 Biological source, chemical constituents and therapeutic efficacy of the following categories of crude drugs.	19	Laxatives: Aloe, Castor oil, Ispaghula, Senna	2/12/25	11	
	20	Cardiotonic Digitalis, Arjuna	3/12/25	11	
	21	Carminatives and G.I. regulators Coriander, Fennel, Cardamom,	8/12/25	11	
	22	Ginger, Clove	9/12/25	11	
	23	Black Pepper, Asafoetida, Nutmeg, Cinnamon	10/12/25	11	
	24	Astringents Myrobalan, Black Catechu, Pale Catechu	15/12/25	11	
	25	Drugs acting on nervous system Hyoscyamus, Belladonna	16/12/25	11	
	26	Ephedra, Opium	17/12/25	11	
	27	Tea leaves, Coffee seeds, Coca	22/12/25	11	
	28	Anti-hypertensive Rauwolfia	23/12/25	11	
	29	Anti-tussive Vasaka, Tolu Balsam	29/12/25	11	
	30	Anti-rheumatics Colchicum seed	30/12/25	11	
	31	Anti-tumour Vinca,	31/12/25	11	

		Podophyllum	31-12-25	Chakra Duster	
	32	Antidiabetics Pterocarpus, Gymnema	27-1-26	"	
	33	Diuretics Gokhru	28-1-26	"	
	34	Diuretic : Punarnava	28-1-26	"	
	35	Anti-dysenteric Ipecacuanha	2-2-26	"	
	36	Antiseptics and disinfectants Benzoin	2-2-26	"	
	37	Myrrh, Neem	3-2-26	"	
	38	Turmeric	3-2-26	"	
	39	Antimalarials Cinchona, Artemisia	4-2-26	"	
	40	Oxytocic Ergot	4-2-26	"	
	41	Vitamins Cod liver oil, Shark liver oil	9-2-26	"	
	42	Enzymes Papaya, Diastase	16-2-26	"	
	43	Pancreatin, yeast	17-2-26	"	
	44	Pharmaceutical Aids: Kaolin, Lanolin	16-2-26	"	
	45	Beeswax, Acacia	18-2-26	"	
	46	Tragacanth, Sodium alginate	23-2-26	"	
	47	Agar, Guar gum, Gelatine	24-2-26	"	
	48	Miscellaneous Squill, Galls, Ashwagandha, Tulsi, Guggul	25-2-26 2-3-26	"	
Chapter-6 Plant fibres used as surgical dressings	49	Cotton, silk,	16-3-26	"	
	50	Wool, and regenerated fibres	17-3-26	"	
	51	Sutures – Surgical Catgut and Ligatures	18-3-26	"	
Chapter-7 Basic principles involved in the traditional systems of medicine	52	Introduction history and component of Ayurvedic medicine system	23-3-26	"	
	53	Introduction history and component of Siddha medicine system	24-3-26	"	
	54	Introduction history and component of unani medicine system	25-3-26	"	
	55	Introduction history and component of Homeopathy medicine system	30-3-26	"	
	56	Method of preparation of Ayurvedic formulations Arista, Asava	1-4-26	"	

	57	Method of preparation of Gutika, Taila	6-4-26	Chakr & Duster	
	58	Method of preparation of Churna, Lehya	7-4-26	"	
	59	Method of preparation of bhasma	8-4-26	"	
Chapter-8	60	Role of medicinal and aromatic plants in national economy and their export potentia	13-4-26	"	
	61	Medicinal and aromatical plants, cultivation and production technology of medicinal and aromatics plants	20-4-26	"	
Chapter-9 Herbs as health food:	62	Brief introduction and therapeutic applications of: Nutraceuticals, Antioxidants	21-4-26	"	
	63	Pro-biotics, Pre-biotics, Dietary fibres,	22-4-26	"	
	64	Omega-3-fatty acids, Spirulina	27-4-26	"	
	65	Carotenoids, Soya and Garlic	28-4-26	"	
Chapter-10	66	Introduction of herbal formulation	29-4-26	"	
	67	Importance and extraction methods of herbs	11-5-26	"	
	68	Preparation methods of marketing formulation like herbal syrup, tablet, powder, ointment cream, mixture.	12-5-26	"	
	69	Novel dosage forms: phytosomes, liposomes, nanoparticles.	13-5-26	"	
Chapter-11 Herbal cosmetics:	70	Sources, chemical constituents, commercial preparations, therapeutic and cosmetic uses of Aloe vera gel, Almond oil,	18-5-26	"	
	71	Cosmetic uses and formulation of Lavender oil, Olive oil	19-5-26	"	
	72	Cosmetic uses and formulation of Rosemary oil,	19-5-26	"	
	73	Cosmetic uses and formulation Sandal Wood oil	20-5-26	"	
	74	Introduction of phytochemical screening	25-5-26	"	
	75	Phytochemical investigation of drugs	26-5-26	"	

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Signature of the subject Teacher

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SIRDA POLYTECHNIC

LESSON PLAN

Name of Faculty *Abhishek Thakur*

Session-2024-2025

Subject Name: Human Anatomy And Physiology

Subject Code: ER20-14T

Course: D. Pharmacy

Semester/Year: 1st

Total Number of Lectures: 75

Each lecture: 1

Syllabus Coverage Schedule

Unit No.	Lecture No.	Particulars/Topic Details	Date	Teaching Aids to be used	Assignment Detail
Chapter -1	1	Scope of Anatomy and Physiology	28/8/25 04/9/25	Chart & Diagrams	
	2	Definition of various terminologies	09/9/25		
Chapter-2	3	Structure of Cell	10/9/25		
	4	Components and its functions	11/9/25		
Chapter-3	5	Tissues of the human body: Epithelial, Connective,	17/9/25		
	6	Muscular and Nervous tissues	18/9/25		
	7	their sub-types	23/9/25		
	8	Characteristics of tissue	27/9/25		
Chapter-4	9	Osseous system, human skeleton	28/9/25		
	10	The axial skeleton system	30/9/25		
	11	structure and functions of bones of axial and appendicular skeleton	01/10/25		
	12	Classification and types of joints	8/10/25		
	13	Function of joints	9/10/25		
Chapter-5	14	Disorder of joints	14/10/25		
	15	Composition and functions of blood	15/10/25 16/10/25		
	16	Process of Hemopoiesis	22/10/25		
	17	Characteristics and functions of RBCs, WBCs	29/10/25 30/10/25		
	18	Characteristics and function of platelets	4/11/25 6/11/25		

	19	Blood clotting , factor effecting blood clotting	11/11/25 12/11/25	Chalk & Duster	
	20	Mechanism of Blood Clotting	13/11/25 17/11/25	"	
	21	Identification of blood groups	19/11/25	"	
	22	Importance of Blood groups	20/11/25	"	
Chapter-6	23	Lymph and lymphatic system	2/12/25	"	
	24	composition, function and its formation	3/12/25	"	
	25	Structure and functions of spleen and lymph node	9/12/25	"	
Chapter-7	26	Anatomy and Physiology of heart	9/12/25	"	
	27	Blood vessels and circulation	10/12/25	"	
	28	Pulmonary systemic circulation	11/12/25	"	
	29	coronary systemic circulation	15/12/25	"	
	30	Cardiac cycle and Heart sounds	17/12/25	"	
	31	Basics of ECG	23/12/25	"	
	32	Cardiac disorder	24/12/25	"	
	33	Blood pressure and its regulation	30/12/25	"	
Chapter-8	34	Anatomy of respiratory organs	27/01/26	"	
	35	Physiology of respiratory organs	28/01/26	"	
	36	Regulation, and Mechanism of respiration.	29/01/26	"	
	37	Respiratory volumes and capacities – definitions	3/02/26	"	
Chapter-9	38	Anatomy of GIT tract	4/02/26	"	
	39	Physiology of the GIT	5/02/26	"	
	40	Anatomy and functions of accessory glands	10/2/26	"	
	41	Anatomy and Function of liver	11/2/26	"	
	42	Anatomy and Function of pancreas	17/2/26	"	
	43	Absorption of food in small intestine	18/2/26	"	
	44	Absorption of food in large intestine	24/2/26	"	
	45	Physiology of digestion and absorption	25/2/26	"	
Chapter-10	46	Histology , Physiology of	26/2/26	"	

		muscle contraction	26-2-26	Chetki Dutt	
	47	Disorder of skeletal muscles	5-3-26	"	
Chapter-11	48	Classification of nervous system	15-3-26	"	
	49	Anatomy and physiology of cerebrum	16-3-26	"	
	50	cerebellum, mid brain	17-3-26	"	
	51	Function of hypothalamus, medulla oblongata and basal ganglia	17-3-26	"	
	52	Spinal cord-structure and reflexes	18-3-26	"	
	53	Names and functions of cranial nerves.	18-3-26	"	
	54	Anatomy and physiology of sympat nervous system hetic	19-3-26	"	
	55	Anatomy and physiology of parasympathetic nervous system	19-3-26	"	
Chapter-12	56	Anatomy and physiology of eyes	24-3-26	"	
	57	Anatomy and physiology of ear	25-3-26	"	
	58	Anatomy and physiology of skin	1-4-26	"	
	59	Anatomy and physiology of Tongue	2-4-26	"	
	60	Anatomy and physiology of Nose	7-4-26	"	
	61	Class Test (anatomy and physiology of eyes and skin)	8-4-26	"	
Chapter-13	62	Anatomy and physiology of urinary system	9-4-26	"	
	63	Physiology of urine formation	16-4-26	"	
	64	Renin - angiotensin system	21-4-26	"	
	65	Clearance tests and micturition	22-4-26	"	
	66	Introducnction of Endocrine system	23-4-26	"	
	67	Pituitary gland, its function	28-4-26	"	
	68	Adrenal gland , its function	29-4-26	"	
	69	Thyroid gland and its function	30-4-26	"	
	70	parathyroid gland and its function	12-5-26	"	

	71	Pancreas and gonads	13-5-26	"	
Chapter-14	72	Anatomy of male and female reproductive system	14-5-26	"	
	73	Physiology of menstruation	19-5-26	"	
	74	Spermatogenesis and Oogenesis	20-5-26	"	
	75	Pregnancy and parturition	21-5-26	"	

Abhishek
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SIRDA POLYTECHIC

LESSON PLAN

Name of Faculty *Ravina Kumari*

Session-2024-2025

Subject Name: SOCIAL PHARMACY

Subject Code: ER20-15T

Course: D. Pharmacy

Semester/Year: 1st

Total Number of lectures: 75

Each lecture: 1

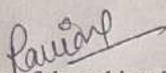
Syllabus Coverage Schedule

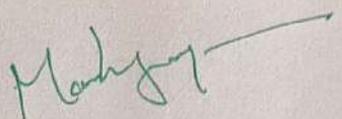
Unit No.	Lecture No.	Particulars/Topic Details	Date	Teaching Aids to be used	Assignment Detail
Chapter -1 Introduction to Social Pharmacy	1	Definition and Scope. Social Pharmacy as a discipline and its scope in improving the public health	30/08/25 06/08/25	chalk & Duster	
	2	Role of Pharmacists in Public Health.	08/09/25		
	3	Concept of Health -WHO Definition, various dimensions	10/09/25 15/09/25		
	4	determinants, and health indicators	17/09/25		
	5	National Health Policy – Indian perspective	20/09/25		
	6	Public and Private Health System in India	27/09/25 29/09/25		
	7	National Health Mission	04/10/25		
	8	Introduction to Millennium Development Goals, Sustainable Development Goals	06/10/25 08/10/25		
	9	FIP Development Goals	13/10/25		
Chapter-2 Preventive healthcare – Role of Pharmacists in the following	10	Demography and Family Planning	15/10/25 25/10/25		
	11	Mother and child health	27/10/25		
	12	importance of breastfeeding	29/10/25		
	13	effects of infant milk substitutes and bottle feeding	01/11/25		
	14	Overview of Vaccines	03/11/25		

	15	types of immunity	10/11/25	"	
	16	Introduction of immunization technology	12/11/25	"	
	17	Effect of Environment on Health	15/11/25	"	
	18	Water pollution , types of pollutant that cause pollution .	17/11/25	"	
	19	importance of safe drinking water	19/11/25	"	
	20	waterborne diseases	21/11/25	"	
	21	air pollution	03/12/25		
	22	noise pollution	06/12/25	"	
	23	sewage and solid waste disposal, occupational illnesses	06/12/25	"	
	24	Environmental pollution due to pharmaceuticals	08/12/25	"	
	25	Psychosocial Pharmacy: Drugs of misuse and abuse – psychotropics, narcotics	10/12/25	"	
	26	alcohol, tobacco products	10/12/25	"	
	27	Social Impact of these habits on social health and productivity and suicidal behaviours	15/12/25	"	
Chapter-3 Nutrition and Health	28	Basics of nutrition – Macronutrients and Micronutrients	17/12/25	"	
	29	Importance of water and fibres in diet	20/12/25	"	
	30	Balanced diet	22/12/25	"	
	31	Malnutrition, nutrition deficiency diseases	24/12/25	"	
	32	ill effects of junk foods	24/12/25	"	
	33	calorific and nutritive values of various foods, fortification of food	29/12/25	"	
	34	Introduction to food safety, adulteration of foods	29/12/25	"	
	35	ffects of artificial ripening, use of pesticides, genetically modified foods	31/12/25	"	
	36	Dietary supplements, nutraceuticals, food	31/12/25	"	

		supplements – indications	26/01/26		
	37	benefits, Drug-Food Interactions	28/01/26		
Chapter-4	38	Introduction to Microbiology and common microorganisms	31/01/26		
	39	Epidemiology: Introduction to epidemiology, and its applications.	02/02/26		
	40	Understanding of terms such as epidemic, pandemic, endemic	4/02/26		
	41	mode of transmission	07/02/26		
	42	outbreak, quarantine,	9/02/26		
	43	isolation, incubation period	11/02/26		
	44	contact tracing, morbidity, mortality,	16/02/26		
	45	Respiratory infections – chickenpox	18/02/26		
	46	measles, rubella	23/02/26		
	47	mumps, influenza	25/02/26		
	48	Avian-Flu, H1N1, SARS, MERS, COVID-19	28/02/26		
	49	diphtheria, whooping cough	02/03/26		
	50	meningococcal meningitis	07/03/26		
	51	acute respiratory infections,	16/03/26		
	52	tuberculosis	18/03/26		
	53	Prevention of Ebola	23/03/26		
	54	Intestinal infections – poliomyelitis	25/03/26		
	55	viral hepatitis	28/03/26		
	56	cholera	30/03/26		
	57	acute diarrheal diseases	01/04/26		
	58	typhoid, amebiasis	4/04/26		
	59	worm infestations	6/04/26		
	60	food poisoning	8/04/26		
	61	Arthropod-borne infections - dengue, malaria	13/04/26		
	62	filariasis and, chikungunya	18/04/26		
	63	Surface infections – trachoma	20/04/26		
	64	tetanus, leprosy	22/04/26		
	65	STDs, HIV/AIDS	25/04/26		
Chapter-5	66	Introduction to health	27/04/26		

		systems	27/04/26		
	67	all ongoing National Health programs in India	02/05/26		
	68	their objectives	04/05/26		
	69	National health mission, NPCDCS, NMHP, NPCB	16/05/26		
	70	Functioning of health system	18/05/26		
	71	Functioning of health system	20/05/26		
	72	Its outcomes	23/05/26		
	73	the role of pharmacists	25/05/26		
Chapter-6	74	Pharmacoeconomics – Introduction, basic terminologies	27/05/26		
	75	importance of pharmacoeconomics	27/05/26		


Signature of the subject Teacher


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