

SIRDA POLYTECHNIC

LESSON PLAN

Name of Faculty *Abhishek Thakur*

Session-2024-2025

Subject Name: Pharmacology

Subject Code: ER20-21T

Course: D. Pharmacy

Semester/Year: 2<sup>nd</sup>

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 and scope of Pharmacology	5/8/25	Chalk & Duster	
	2	Various routes of drug administration - advantages and disadvantages	6/8/25	11	
	3	Drug absorption - definition, types, factors affecting drug absorption	7/8/25	11	
	4	Bioavailability and the factors affecting bioavailability	12/8/25	11	
	5	Drug distribution - introduction	13/8/25	11	
	6	factors affecting drug distribute	14/8/25 19/8/25	11	
	7	Biotransformation of drugs - Definition, types of biotransformation reactions	20/8/25 21/8/25	11	
	8	factors influencing drug metabolisms	23/8/25	11	
	9	Excretion of drugs - Definition, routes of drug excretion	04/9/25	11	
	10	General mechanisms of drug action and factors modifying drug action	09/9/25 10/9/25	11	
Chapter-2	11	Drugs Acting on the Peripheral Nervous System Steps involved in neurohumoral transmission	11/9/25 17/9/25	11	
	12	Cholinergic drugs	18/9/25	11	
	13	Cholinergic receptors, neurotransmitter	23/9/25	11	
	14	Anti-Cholinergic drugs	30/9/25	11	
	15	Adrenergic drugs	8/10/25	11	
	16	Adrenergic receptors	9/10/25	11	
	17	Anti-adrenergic drugs	14/10/25	11	

	18	Neuromuscular blocking agents	15/10/25	Challa Duder	
	19	Drugs used in Myasthenia gravis	16/10/25	"	
	20	Local anaesthetic agents	23/10/25	"	
	21	Non-Steroidal Anti-Inflammatory drugs (NSAIDs)	29/10/25	"	
Chapter-3	22	Definition, classification, pharmacological actions, dose, indications and contraindications of Miotics, Mydriatics	30/10/25 4/11/25	"	
	23	Drugs used in Glaucoma	6/11/25	"	
Chapter-4	24	General anaesthetics	11/11/25	"	
	25	Hypnotics and sedatives	12/11/25	"	
	26	Anti-Convulsant drugs	13/11/25	"	
	27	Anti-anxiety drugs	18/11/25	"	
	28	Anti-depressant drugs	19/11/25	"	
	29	Anti-psychotics, Nootropic agents	20/11/25	"	
	30	Centrally acting muscle relaxants	09/12/25	"	
	31	Opioid analgesics	3/12/25	"	
Chapter-5	32	Anti-hypertensive drugs	4/12/25	"	
	33	Anti-anginal drugs	9/12/25	"	
	34	Anti-arrhythmic drugs	10/12/25	"	
	35	Drugs used in atherosclerosis	11/12/25	"	
	36	Congestive heart failure	17/12/25	"	
	37	Drug therapy for shock	18/12/25	"	
Chapter-6	38	Hematinic agents	22/12/25	"	
	39	Anti-coagulants	23/12/25	"	
	40	Anti-platelet agents	24/12/25	"	
	41	Thrombolytic drugs	24/12/25	"	
Chapter-7	42	Definition, classification, pharmacological actions, dose, indications, and contraindications of Bronchodilators, Expectorants	30/12/25 31/12/25	"	
	43	Anti-tussive agents, Mucolytic agents	27/1/26	"	
	44	Introduction: peptic ulcer, etiology of ulcer	28/1/26	"	
	45	Anti-ulcer drugs	29/1/26	"	
	46	Anti-emetics	3/2/26	"	
	47	Laxatives and purgatives	4/2/26	"	
	48	Anti-diarrheal drugs	5/2/26	"	
Chapter-8	49	Definition, classification, pharmacological actions, dose, indications, and contraindications of Diuretics	10/2/26	"	
	50	Anti-Diuretics	11/2/26	"	
Chapter-9	51	Physiological and pathological role and clinical uses of	17/2/26	"	

		Thyroid hormones , Anti-thyroid drugs	18/2/20	Challa Duster	
	52	Physiological and pathological role and clinical uses of Parathormone , Calcitonin	24/2/20	"	
	53	Physiological and pathological role and clinical uses of Vitamin D	25/2/20	"	
	54	Physiological and pathological role and clinical uses of insulin	26/2/20	"	
	55	Physiological and pathological role and clinical uses of Oral hypoglycemic agents	11/3/20	"	
	56	Physiological and pathological role and clinical uses of Estroge	12/3/20	"	
	57	Physiological and pathological role and clinical uses of Progesterone ,Oxytocin	17/3/20	"	
	58	Physiological and pathological role and clinical uses of corticosteroids	18/3/20	"	
Chapter-	59	Physiological role of Histamine	19/3/20	"	
	60	5 HT and Prostaglandins	24/3/20	"	
	61	Classification, clinical uses, and adverse effects of antihistamines and 5 HT antagonists	25/3/20	"	
Chapter-	62	classification, dose, indication and contraindications of drugs Penicillins ,Cephalosporins	1/4/20	"	
	63	classification, dose, indication and contraindications of drugs Aminoglycosides	2/4/20	"	
	64	classification, dose, indication and contraindications of drugs Fluoroquinolones	7/4/20	"	
	65	classification, dose, indication and contraindications of drugs Macrolides	8/4/20	"	
	66	classification, dose, indication and contraindications of drugs Tetracycline,	9/4/20	"	
	67	classification, dose, indication and contraindications of drugs Sulphonamides	16/4/20	"	
	68	classification, dose, indication and contraindications of drugs Anti-tubercular drugs	21/4/20	"	
	69	classification, dose, indication and contraindications of drugs Anti-fungal drugs	22/4/20	"	
	70	classification, dose, indication and contraindications of drugs Anti-viral drugs	23/4/20	"	

	71	classification, dose, indication and contraindications of drugs Anti-amoebic agents , Anthelmintics	28/4/22	Chaitanya J Dutker	
	72	classification, dose, indication and contraindications of drugs Anti-malarial agents	29/4/22	"	
	73	classification, dose, indication and contraindications of drugs Anti-neoplastic agents	30/4/22	"	
<b>Chapter-</b>	74	Biological ,introduction	12/5/22	"	
	75	types, and indications of biological agents with examples	13/5/22	"	

*Abhinav*  
Signature of the subject Teacher

*Mohy*  
Principal

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LESSON PLAN

Name of Faculty *Mamta Sharma*

Session-2024-2025

Subject Name: Community Pharmacy And Management

Subject Code: ER20-22T

Course: D. Pharmacy

Semester/Year: 1<sup>st</sup>

Total Number of Lecture: 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	Community Pharmacy Practice – Definition, history and development of community pharmacy	04/08/25 06/08/25	Chalk & Duster	
	2	International and Indian scenarios	07/08/25	"	
Chapter-2	3	Professional responsibilities of community pharmacists	07/08/25	"	
	4	Introduction to the concept of Good Pharmacy Practice	13/08/25 18/08/25	"	
	5	Standard operating procedure	20/08/25	"	
Chapter-3	6	Definition, parts of prescriptions	21/08/25 28/08/25	"	
	7	legality of prescriptions	04/09/25	"	
	8	prescription handling	08/09/25	"	
	9	labelling of dispensed medications (Main label, ancillary label, pictograms)	09/09/25 11/09/25	"	
	10	brief instructions on medication usage	15/09/25 18/09/25	"	
	11	Dispensing process, Good Dispensing Practices,	22/09/25	"	
	12	dispensing errors and strategies to minimize them	06/10/25 08/10/25	"	
Chapter - 4	13	Definition, types of communication skills	09/10/25	"	
	14	Interactions with professionals and patients	13/10/25 16/10/25	"	
	15	Verbal communication skills (one-to-one, over the telephone)	27/10/25 27/10/25	"	
	16	Written communication	30/10/25	"	

		skills	3/10/25	"	
	17	Body language	03/11/25	"	
	18	Patient interview techniques	06/11/25 10/11/25	"	
Chapter -5	19	Definition and benefits of patient counselling	12/11/25 17/11/25	"	
	20	Stages of patient counselling - Introduction, counselling content, counselling process	19/11/25	"	
	21	closing the counselling session	20/11/25	"	
	22	Barriers to effective counseling - Types and strategies to overcome the barriers	01/12/25	"	
	23	Patient counselling points for chronic diseases/disorders - Hypertension, Diabetes	3/12/25	"	
	24	Asthma, Tuberculosis,	3/12/25	"	
	25	Chronic obstructive pulmonary disease, and AIDS	08/12/25	"	
	26	Patient Package Inserts - Definition, importance and benefits	10/12/25	"	
	27	Scenarios of PPI use in India and other countries	15/12/25	"	
	28	Patient Information leaflets - Definition and uses	15/12/25	"	
Chapter-6	29	Definition, factors influencing non- adherence	17/12/25	"	
	30	strategies to overcome non-adherence	17/12/25	"	
Chapter-7	31	Health Screening Services in Community Pharmacy Introduction, scope	18/12/25	"	
	32	importance of various health screening services	18/12/25	"	
	33	for routine monitoring of patients	22/12/25	"	
	34	early detection	22/12/25	"	
	35	referral of undiagnosed cases	24/12/25	"	
	36	Over The Counter (OTC) Medications	24/12/25	"	

	37	need and role of Pharmacists in OTC medication dispensing	29/12/25	Chalk & Duster	
	38	OTC medications in India	29/12/25	"	
	39	counseling for OTC products	31/12/25	"	
	40	Self-medication	31/12/25	"	
	41	role of pharmacists in promoting the safe practices during self-medication	31/12/25	"	
	42	Responding to symptoms	27/01/26	"	
	43	minor ailments,	28/01/26	"	
	44	advice for self-care in conditions such as - Pain management, Cough, Cold, Diarrhea, Constipation, Vomiting	31/01/26	"	
	45	advice for self-care in conditions Sore throat, Skin disorders, Oral health (mouth ulcers, dental pain, gum swelling)	03/02/26	"	
Chapter-8	46	Introduction of Community Pharmacy Management	4/02/26	"	
	47	Role of pharmacy officer in community pharmacy	7/02/26	"	
	48	Legal requirements to set up a community pharmacy	10/02/26	"	
	49	Site selection requirements	11/02/26	"	
	50	Pharmacy designs	17/2/26	"	
	51	Pharmacy Interiors	18/02/26	"	
	52	Vendor selection community pharmacy	21/02/26	"	
	53	Vendor ordering	25/02/26	"	
	54	Procurement	28/02/26	"	
	55	inventory control methods	10/03/26	"	
	56	inventory management	17/03/26	"	
	57	Financial planning	18/03/26	"	
	58	Financial management	24/03/26	"	
	59	Accountancy in community pharmacy	28/03/26	"	
	60	Day book	31/03/26	"	
	61	Cash book	01/04/26	"	
	62	Organization and structure of retail and wholesale drugs	04/04/26	"	
	63	Design of drug store	07/04/26	"	

	64	Introduction to pharmacy operation softwares	08/4/26	Chalk & Duster	
	65	Key feature of pharmacy operation software	18/04/26	"	
	66	usefulness and availability	22/04/26	"	
	67	Customer Relation Management (CRM)	25/04/26	"	
	68	Customer relationship in pharmacy	28/04/26	"	
	69	Customer Relation Management (CRM)	29/04/26	"	
	70	Audits in Pharmacies	02/05/26	"	
	71	SOP of Pharmacy Management	12/05/26	"	
	72	Selection and handling of SOPS	19/05/26	"	
	73	Introduction to Digital Health	20/05/26	"	
	74	mHealth , Introduction	23/05/26	"	
	75	Online pharmacies	26/05/26	"	

*Mamta*

Signature of the subject Teacher

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SIRDA POLYTECHNIC

LESSON PLAN

Name of Faculty - *Reena Kumari*

Session-2024-2025

Subject Name: Biochemistry & Clinical Pathology

Subject Code: ER20-23T

Course: D. Pharmacy

Semester/Year: 2<sup>nd</sup>

Total Number of Lecture:75

Each lecture: 1

Syllabus Coverage Schedule

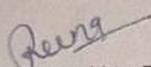
Unit No.	Lecture No.	Particulars/Topic Details	Date	Teaching Aids to be used	Assignment Detail
Chapter -1	1	introduction to biochemistry: Scope of biochemistry in pharmacy	<i>4/8/25</i>	<i>Chalk &amp; Duster</i>	
	2	Cell and its biochemical organization.	<i>8/8/25</i>	"	
Chapter-2	3	Definition, classification with examples, chemical properties	<i>11/8/25</i>	"	
	4	Monosaccharides - Structure of glucose, fructose, and galactose	<i>22/08/25</i>	"	
	5	Disaccharides - structure of maltose, lactose, and sucrose	<i>23/08/25</i>	"	
	6	Polysaccharides - chemical nature of starch and glycogen	<i>29/08/25</i>	"	
	7	Qualitative tests and biological role of carbohydrates	<i>8/09/25</i>	"	
Chapter-3	8	Definition, classification of proteins based on composition and solubility with examples	<i>12/09/25</i>	"	
	9	Definition, classification of amino acids based on chemical nature and nutritional requirements with examples	<i>20/09/25</i>	"	
	10	Structure of proteins (four levels of organization of protein structure)	<i>22/09/25</i>	"	
	11	Qualitative tests and	<i>26/09/25</i>	"	

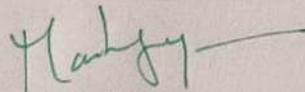
		biological role of proteins and amino acids	26/09/25	Chalk & Duster	
	12	Diseases related to malnutrition of proteins.	6/10/25	"	
Chapter - 4	13	Definition, classification with examples, Structure and properties of triglycerides (oils and fats)	11/10/25	"	
	14	Fatty acid classification - Based on chemical and nutritional requirements with examples	13/10/25	"	
	15	Structure and functions of cholesterol in the body	17/10/25	"	
	16	Lipoproteins - types, composition and functions in the body	24/10/25	"	
	17	Qualitative tests and functions of lipids	25/10/25	"	
Chapter-5	18	Definition, purine and pyrimidine bases	27/10/25	"	
	19	Components of nucleosides and nucleotides with examples	31/10/25	"	
	20	Structure of DNA (Watson and Crick model)	3/11/25	"	
	21	RNA and their functions	7/11/25	"	
Chapter-6	22	Introduction of enzyme	10/11/25	"	
	23	IUB and MB classification	15/11/25	"	
	24	Factors affecting enzyme activity	14/11/25	"	
	25	Mechanism of action of enzymes, Enzyme inhibitors	17/11/25	"	
	26	Therapeutic and pharmaceutical importance of enzymes	21/11/25	"	
Chapter-7	27	Vitamins, Definition and classification with examples	22/11/25	"	
	28	Sources, chemical nature, functions, coenzyme form, recommended dietary requirements, deficiency diseases of fat soluble vitamin -A and D	01/12/25	"	
	29	Sources, chemical nature, functions, coenzyme form,	5/12/25	"	

		recommended dietary requirements, deficiency diseases of fat soluble Vitamin-E	5/12/25	Chalk & dustce	
	30	Sources, chemical nature, functions, coenzyme form, recommended dietary requirements, deficiency diseases of fat soluble Vitamin -k	6/12/25	"	
	31	Sources, chemical nature, functions, coenzyme form, recommended dietary requirements, deficiency diseases of water soluble vitamin-B	8/12/25	"	
	32	Sources, chemical nature, functions, coenzyme form, recommended dietary requirements, deficiency diseases of water soluble Vitamin-C	12/12/25	"	
Chapter-8	33	Metabolism of Carbohydrates: Glycolysis	15/12/25	"	
	34	TCA cycle	19/12/25	"	
	35	glycogen metabolism	20/12/25	"	
	36	regulation of blood glucose level	22/12/25	"	
	37	Diseases related to abnormal metabolism of Carbohydrates	26/12/25	"	
	38	Metabolism of lipids: Lipolysis	27/12/25	"	
	39	$\beta$ -oxidation of Fatty acid	29/12/25	"	
	40	ketogenesis and ketolysis.	30/12/26	"	
	41	Diseases related to abnormal metabolism of lipids such as Ketoacidosis	31/1/26	"	
	42	Fatty liver, Hypercholesterolemia	2/2/26	"	
	43	Metabolism of Amino acids (Proteins): General reactions of amino acids	2/2/26	"	
	44	its significance- Transamination, deamination	6/2/26	"	
	45	Urea cycle	6/2/26	"	

	46	Decarboxylation process of amino acid	7/2/26	Chalk & Duster	
	47	Diseases related to abnormal metabolism of amino acids	9/2/26	"	
	48	Disorders of ammonia metabolism,	13/2/26	"	
	49	phenylketonuria	13/2/26	"	
	50	Alkaptonuria, Jaundice.	16/2/26	"	
	51	Biological oxidation: Electron transport chain	16/2/26	"	
	52	Oxidative phosphorylation	20/2/26	"	
Chapter-9	53	Introduction of mineral, nutrient elements.	20/2/26	"	
	54	Classification of mineral	21/2/26	"	
	55	Types, Functions, Deficiency diseases, recommended dietary requirements of calcium, magnesium	23/2/26	"	
	56	Types, Functions, Deficiency diseases, recommended dietary requirements of zinc, copper, fluoride	27/2/26	"	
	57	Types, Functions, Deficiency diseases, recommended dietary requirements of sulfur, potassium, phosphorus	28/2/26	"	
Chapter-10	58	Distribution, functions of water in the body	13/3/26	"	
	59	Water turnover and balance	13/3/26	"	
	60	Electrolyte composition of the body fluids	16/3/26	"	
	61	Dietary intake of electrolyte and Electrolyte balance	16/3/26	"	
	62	Dehydration, causes of dehydration and oral rehydration therapy	23/3/26	"	
Chapter-11	63	Introduction to Biotechnology	23/3/26	"	
Chapter-12	64	Functions of kidney and routinely performed tests to assess	27/3/26	"	
	65	functions of kidney and	28/3/26	"	

		their clinical significances	30/3/26	Chalk & Dusty	
	66	Functions of liver and routinely performed tests to assess	4/4/26	"	
	67	functions of liver and their clinical significances	6/4/26	"	
	68	Lipid profile tests	10/4/26	"	
	69	its clinical significances	13/4/26	"	
Chapter-13	70	Introduction to Pathology of Blood and Urine	17/4/26	"	
	71	Lymphocytes and Platelets	18/4/26	"	
	72	their role in health and disease	20/4/26	"	
	73	Erythrocytes - Abnormal cells	24/4/26	"	
	74	their significance	25/4/26	"	
	75	Normal and Abnormal constituents of Urine and their significance	11/5/26 16/5/26	"	

  
Signature of the subject Teacher



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SIRDA POLYTECHNIC

LESSON PLAN

Name of Faculty *Deepali*

Session-2024-2025

Subject Name: Pharmacotherapeutics

Subject Code: ER20-24T

Course: D. Pharmacy

Semester/Year: 2nd

Total Number of Lectures: 75

Each lecture: 1

Syllabus Coverage Schedule

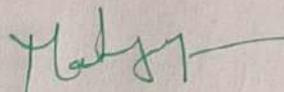
Unit No.	Lesson No.	Particulars/Topic Details	Date	Teaching Aids to be used	Assignment Detail
Chapter -1	1	Pharmacotherapeutics – Introduction, scope, and objectives	7/08/25	Chalk & Duster	
	2	Rational use of Medicines	08/08/25	"	
	3	Criteria for using medicine	21/08/25	"	
	4	Irrational use of the drugs, types of irrational use	22/08/25	"	
	5	Obstacle of rational use, measures to promote RDU	28/08/25	"	
	6	role of pharmacist in RDU	29/08/25	"	
	7	Evidence Based Medicine, Essential Medicines List	30/08/25	"	
	8	Standard Treatment Guidelines	4/09/25	"	
Chapter-2	9	Hypertension, etiopathogenesis, clinical manifestations	5/09/25	"	
	10	Non pharmacological and pharmacological management of hypertension	6/09/25	"	
	11	Angina, etiopathogenesis, clinical manifestations, non pharmacological and pharmacological treatments	12/09/25	"	
	12	Myocardial infarction, etiopathogenesis, clinical manifestations	18/09/25	"	
	13	Pharmacological and non-pharmacological treatments of myocardial infarction	20/09/25	"	

	14	Hyperlipidaemia	25/09/25	Chalk & Duster	
	15	Pharmacological and non-pharmacological treatments of hyperlipidaemia	26/09/25	"	
	16	etiopathogenesis, clinical manifestations, non pharmacological and pharmacological treatments of Congestive Heart Failure	27/09/25	"	
Chapter-3	17	etiopathogenesis, clinical manifestations Asthma	4/10/25	"	
	18	Clinical managements of asthma	9/10/25	"	
	19	etiopathogenesis, clinical manifestations of COPD	16/10/25	"	
	20	Clinical managements of COPD	24/10/25	"	
Chapter-4	21	etiopathogenesis, clinical manifestations Diabetes	30/10/25	"	
	22	Clinical managements of diabetes	6/11/25	"	
	23	Etiopathogenesis, clinical manifestation of hypothyroidism	13/11/25	"	
	24	Treatments of hypothyroidism	15/11/25	"	
	25	Etiopathogenesis, clinical manifestation of hyperthyroidism.	21/11/25	"	
Chapter-5	26	Epilepsy, introduction, etiopathogenesis, clinical manifestation.	9/12/25	"	
	27	Drugs use in treatment of epilepsy	5/12/25	"	
	28	Parkinson's disease, introduction, etiopathogenesis, clinical manifestation	6/12/25	"	
	29	Drugs use in treatment of Parkinson's disease	11/12/25	"	
	30	Alzheimer's disease, introduction, etiopathogenesis, clinical manifestation	12/12/25	"	
	31	Drugs use in treatment of alzheimers diseases.	12/12/25	"	
	32	etiopathogenesis, clinical manifestation and drugs	18/12/25	"	

		used in Stroke	18/12/25	Chalk & dusted	
	33	Migraine, etiopathogenesis, and treatments.	18/12/25	"	
Chapter-6	34	Gastro oesophageal reflux disease	19/12/25	"	
	35	Pharmacological treatment of Gastro oesophageal reflux disease	19/12/25	"	
	36	Peptic Ulcer Disease	20/12/25	"	
	37	Pharmacological treatment of peptic ulcer disease	20/12/25	"	
	38	Alcoholic liver disease	26/12/25	"	
	39	Pharmacological treatment of alcoholic liver disease.	26/12/25	"	
	40	Inflammatory Bowel Diseases (Crohn's Disease and Ulcerative Colitis)	27/12/25	"	
	41	Treatments of crohn's disease and ulcerative colitis	27/12/25	"	
Chapter-7	42	Iron deficiency anaemia and its types	29/11/26	"	
	43	Treatment of iron deficiency anaemia	30/11/26	"	
	44	Megaloblastic anaemia, risk factor	31/11/26	"	
	45	Treatment of Megaloblastic anaemia	5/2/26	"	
Chapter-8	46	Tuberculosis, etiopathogenesis, clinical manifestation	6/2/26	"	
	47	Treatment of tuberculosis.	7/2/26	"	
	48	Pneumonia etiopathogenesis, clinical manifestation	12/2/26	"	
	49	Treatment of pneumonia	13/2/26	"	
	50	Urinary tract infections	20/2/26	"	
	51	Hepatitis, its type	21/2/26	"	
	52	Treatments of Hepatitis	21/2/26	"	
	53	Gonorrhoea and Syphilis	26/2/26	"	
	54	Malaria, etiopathogenesis, clinical manifestation	27/2/26	"	
	55	Pharmacological Management of malaria	28/2/26	"	
	56	HIV and Opportunistic infections	12/2/26	"	
	57	Viral Infections (SARS, CoV2)	13/2/26	"	

Chapter-9	58	Rheumatoid arthritis	19/3/26	Chalk & Dust
	59	Osteoarthritis	20/3/26	"
	60	Pharmacological treatment of rheumatoid arthritis and osteoarthritis.	27/3/26	"
Chapter-10	61	Psoriasis	28/3/26	"
	62	Scabies	2/4/26	"
	63	Eczema	4/4/26	"
Chapter-11	64	Depression	9/4/26	"
	65	Pharmacological treatment of depression	16/4/26	"
	66	Anxiety, its treatment	16/4/26	"
	67	Psychosis	17/4/26	"
Chapter-12	68	Conjunctivitis (bacterial and viral)	18/4/26	"
	69	Glaucoma	23/4/26	"
	70	Anti-microbial agents	24/4/26	"
	71	Anti-microbial Resistance	25/4/26	"
Chapter-13	72	Polycystic Ovary Syndrome	30/4/26.	"
	73	Treatment of PCOD	8/5/26	"
	74	Dysmenorrhea Premenstrual Syndrome	14/5/26	"
	75	Premenstrual Syndrome	15/5/26.	"

Signature of the subject Teacher

  
Principal

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Sirda Polytechnic  
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SIRDA POLYTECHNIC

LESSON PLAN

Name of Faculty *Ravina Kumari*

Session-2024-2025

Subject Name: Hospital And Clinical Pharmacy

Subject Code: ER20-25T

Course: D. Pharmacy

Semester/Year: 2<sup>nd</sup> year

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	Definition, scope, national and international scenario	05/08/25 06/08/25	Chalk & Duster	
	2	Organisational structure	12/08/25	"	
	3	Professional responsibilities, Qualification and experience requirements, job specifications	19/08/25 20/08/25	" "	
	4	work load requirements and inter professional relationships	23/08/25 30/08/25	"	
	5	Good Pharmacy Practice (GPP) in hospital , Hospital Pharmacy Standards (FIP Basel Statements, AHSP)	06/09/25 09/09/25	" "	
	6	Introduction to NAQS guidelines and NABH Accreditation and Role of Pharmacists	10/09/25 17/09/25	" "	
Chapter-2	7	Pharmacy and Therapeutics Committee - Objectives, Composition, and functions	20/09/25 23/09/25	" "	
	8	Hospital Formulary - Definition, procedure for development	04/10/25	"	
	9	use of hospital formulary	08/10/25	"	
	10	Infection Control Committee – Role of Pharmacist in preventing Antimicrobial Resistance	14/10/25 15/10/25	" "	

Chapter-3	11	Preparation of Drug lists - High Risk drugs, Emergency drugs	25/10/25 28/10/25	Chalk & Dusty	
	12	Schedule H1 drugs, NDPS drugs, reserved antibiotics	29/10/25	"	
	13	Procedures of Drug Purchases	01/11/25	"	
	14	Drug selection, short term, long term	09/11/25	"	
	15	tender/e-tender process, quotations, etc.	11/11/25	"	
	16	Inventory control techniques	12/11/25	"	
	17	Economic Order Quantity, Reorder Quantity Level,	15/11/25	"	
	18	Inventory Turnover	18/11/25	"	
	19	Inventory Management of Central Drug Store – Storage conditions	19/11/25	"	
	20	Methods of storage, Distribution, Maintaining Cold Chain, Devices used for cold storage (Refrigerator, ILR, Walk-in-Cold rooms)	21/11/25	"	
	21	FEFO, FIFO methods	2/12/25	"	
	22	Expiry drug removal and handling	3/12/25	"	
	23	disposal. Disposal of Narcotics, cytotoxic drugs	3/12/25	"	
	24	Documentation - purchase and inventory	6/12/25	"	
Chapter-4	25	Drug distribution (in-patients and out - patients) – Definition, advantages and disadvantages of individual prescription order method	9/12/25	"	
	26	Floor Stock Method	10/12/25	"	
	27	Unit Dose Drug Distribution Method	10/12/25	"	
	28	Drug Basket Method.	16/12/25	"	
	29	Distribution of drugs to ICCU/ICU/NICU/Emergency wards.	16/12/25	"	
	30	Automated drug dispensing systems and devices	17/12/25	"	

	31	Distribution of Narcotic and Psychotropic substances and their storage	17/12/25	Chalk & Dustel	
Chapter-5	32	Compounding in Hospitals	20/12/25	"	
	33	Bulk compounding	20/12/25	"	
	34	IV admixture services and incompatibilities	23/12/25	"	
	35	Total parenteral nutrition	23/12/25	"	
Chapter-6	36	Radio Pharmaceuticals - Storage, dispensing	30/12/25	"	
	37	disposal of radiopharmaceuticals	30/12/25	"	
Chapter-7	38	Application of computers in Hospital Pharmacy Practice,	31/12/25	"	
	39	Electronic health records, Softwares used in hospital pharmacy	31/12/25	"	
Chapter-8	40	Clinical Pharmacy: Definition, scope, and development - in India and other countries	27/01/26	"	
	41	Technical definitions, common terminologies used in clinical settings and their significance such as Paediatrics,	28/01/26	"	
	42	Geriatric, Anti-natal Care, Post-natal Care, etc.	31/01/26	"	
	43	Daily activities of clinical pharmacists: Definition, goal, and procedure of Ward round participation	03/02/26	"	
	44	Treatment Chart Review	04/02/26	"	
	45	Adverse drug reaction monitoring	07/02/26	"	
	46	Drug information and poisons information	10/02/26	"	
	47	Medication history	11/02/26	"	
	48	Patient counselling	17/02/26	"	
	49	Interprofessional collaboration	18/02/26	"	
	50	Pharmaceutical care: Definition, classification of drug related problems	21/2/26	"	
	51	Principles and procedure to provide pharmaceutical care Medication Therapy	25/02/26	"	

		Management, Home Medication Review	28/02/26	Chalk & Dust er	
Chapter-9	52	Clinical laboratory tests used in the evaluation of disease states: Haematological	10/03/26	"	
	53	Liver function test	17/03/26	"	
	54	Renal function test	18/03/26	"	
	55	thyroid function tests, hyperthyroidism	24/03/26	"	
	56	Test for hypothyroidism	25/03/26	"	
	57	Tests associated with cardiac disorders	28/03/26	"	
	58	Fluid and electrolyte balance in body, importance of electrolytes	31/03/26	"	
	59	Fluid and electrolyte balance test	1/04/26	"	
	60	Pulmonary Function Tests	4/04/26	"	
	61	Class test	5/04/26	"	
Chapter-10	62	Poisoning: Types of poisoning	08/4/26	"	
	63	Clinical manifestations and Antidotes	18/4/26	"	
	64	Drugs and Poison Information Centre and their services – Definition	21/04/26	"	
	65	Responsibility Requirements	22/04/26	"	
	66	Information resources with examples	25/04/26	"	
	67	their advantages and disadvantages	28/04/26	"	
Chapter-11	68	Pharmacovigilance Definition, aim and scope	29/04/26	"	
	69	Overview of Pharmacovigilance	02/05/26	"	
Chapter-12	70	Medication errors: Definition, types, consequences	05/05/26	"	
	71	strategies to minimize medication errors	6/05/26	"	
	72	ASA drugs and Tallman lettering as per ISMP	12/05/26	"	
	73	Drug Interactions: Definition	13/05/26	"	
	74	Types of drug interaction	16/05/26	"	

	75	clinical significance of drug interactions	26/05/26	Chalk & Dusty	
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*Ravindra*

Signature of the subject Teacher

*Malviya*

Principal

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SIRDA POLYTECHNIC

LESSON PLAN

Name of Faculty *Mamta Sharma*

Session-2024-2025

Subject Name: Pharmacy Law And Ethics

Subject Code: ER20-26T

Course: D. Pharmacy

Semester/Year: 2<sup>ND</sup>

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	General Principles of Law, History ,related to Drugs and Pharmacy profession	04/08/25 06/08/25	Chalk & Ruster		
	2	various Acts related to Drugs and Pharmacy profession	08/08/25	l/		
Chapter-2	3	Pharmacy Act-1948 and Rules: Objectives, Definitions	11/08/25	l/		
	4	Pharmacy Council of India	13/08/25	l/		
	5	its constitution and functions	18/08/25	l/		
	6	Education Regulations, State and Joint state pharmacy councils	20/08/25	l/		
	7	Registration of Pharmacists, Offences and Penalties. Pharmacy Practice Regulations 2015	23/08/25 27/08/25	l/		
	Chapter-3	8	Drugs and Cosmetics Act 1940 and Rules 1945 and New Amendments Objectives, Definitions	28/08/25	l/	
		9	Legal definitions of schedules to the Act and Rules Import of drugs	30/08/25	l/	
10		Classes of drugs and cosmetics prohibited from import,	03/09/25	l/		
11		Import under license or permit.	04/09/25	l/		
12		Manufacture of drugs	06/09/25	l/		
13		Prohibition of manufacture	08/09/25	l/		

		and sale of certain drugs	08/09/25	11	
	14	Conditions for grant of license and conditions of license for manufacture of drugs	10/09/25 15/09/25	11	
	15	Manufacture of drugs for test	17/09/25	11	
	16	examination and analysis	20/09/25	11	
	17	manufacture of new drug	22/09/25	11	
	18	loan license and repacking license	24/09/25	11	
	19	Study of schedule C and C1	29/09/25	11	
	20	Study of schedule Hand H1 Drugs	11/10/25	11	
	21	Study of schedule G and k	04/10/25	11	
	22	Study of schedule P and M	06/10/25	11	
	23	Study of schedule N	08/10/25	11	
	24	Study of schedule X drugs	13/10/25	11	
	25	Sale of Drugs – Wholesale, Retail sale and Restricted license	15/10/25	11	
	26	Records to be kept in a pharmacy	18/10/25	11	
	27	Drugs Prohibited for manufacture and sale in India	25/10/25 27/10/25	11	
	28	Administration of the Act and Rules – Drugs Technical Advisory Board, Central Drugs Laboratory	29/10/25 01/11/25	11	
	29	Drugs Consultative Committee, Government analysts	03/11/25	11	
	30	licensing authorities, controlling authorities, Drug Inspectors.	10/11/25	11	
Chapter-4	31	Narcotic Drugs and Psychotropic Substances Act 1985 and Rules Objectives, Definitions, Authorities and Officers	12/11/25 15/11/25	11	
	32	Prohibition, Control and Regulation, Offences and Penalties	17/11/25 19/11/25	11	

Chapter-5	33	Drugs and Magic Remedies (Objectionable Advertisements) Act 1954 Objectives, Definitions, Prohibition of certain advertisements	01/12/25	11	
	34	Classes of Exempted advertisements, Offences and Penalties	3/12/25	11	
Chapter-6	35	Prevention of Cruelty to Animals Act-1960: Objectives, Definitions, CPCSEA - brief overview, Institutional Animal Ethics Committee, Breeding and Stocking of Animals, Performance of Experiments	5/12/25	11	
	36	Transfer and Acquisition of animals for experiment, Records, Power to suspend or revoke registration, Offences and Penalties	8/12/25	11	
Chapter-7	37	Poisons Act-1919: Introduction, objective, definition, possession,	10/12/25	11	
	38	possession for sales and sale of any poison, import of poisons	12/12/25	11	
Chapter-8	39	FSSAI (Food Safety and Standards Authority of India) Act and Rules: brief overview and aspects related to manufacture	18/12/25	11	
	40	storage, sale, and labelling of Food Supplements	17/12/25	11	
Chapter-9	41	National Pharmaceutical Pricing Authority: Drugs Price Control Order (DPCO) – 2013 objective, Definitions	18/12/25	11	
	42	Sale prices of bulk drugs	22/12/25	11	
	43	Retail price of formulations	24/12/25	11	
	44	Retail price and ceiling price of scheduled formulations	26/12/25	11	
	45	Pharmaceutical Policy 2002, National List of Essential Medicines (NLEM)	29/12/25	11	
Chapter-10	46	Code of Pharmaceutical	29/12/25	11	

		Ethics: Definition, ethical principles			
	47	ethical problem solvin	28/01/26	11	
	48	registration, code of ethics for Pharmacist in relation to his job	30/01/26 21/2/26	11	
	49	trade, medical profession and his profession	4/2/26 6/2/26	11	
	50	Pharmacist's oath	9/2/26	11	
Chapter-11	51	Medical Termination of Pregnancy Act and Rules – basic understanding	11/2/26 13/2/26	11	
	52	salient features, and Amendments	16/4/26	11	
Chapter-12	53	Role of all the government pharma regulator bodies – Central Drugs Standards Control Organization (CDSCO), Indian Pharmacopoeia Commission	19/2/26 21/4/26	11	
Chapter-13	54	Good Regulatory practices (documentation, licenses, renewals, e-governance) in Community Pharmacy	23/4/26 25/4/26	11	
	55	Hospital pharmacy, Pharma Manufacturing, Wholesale business	27/4/26	11	
	56	inspections, import, export of drugs and medical devices	11/3/26	11	
Chapter-14	57	Introduction to BCS system of classification, Basic concepts of Clinical Trials	13/3/26	11	
	58	ANDA, NDA, New Drug development,	15/3/26	11	
	59	New Drugs and Clinical Trials Rules 2019	18/3/26	11	
	60	Brand v/s Generic medicine	20/3/26	11	
	61	Trade name concept	20/3/26	11	
	62	introduction to Patent Law and Intellectual Property Rights	25/3/26 28/3/26	11	
	63	Emergency Use Authorization	30/3/26	11	
Chapter-15	64	Blood bank	1/4/26	11	
	65	basic requirements and functions	6/4/26	11	

Chapter-16	66	Clinical Establishment Act and Rules	3/4/26 20/4/26	11	
	67	Aspects related to Pharmacy	13/4/26	4	
Chapter-17	68	Biomedical Waste Management Rules 2016 – Basic aspects,	12/4/26 20/4/26	11	
	69	aspects related to pharma manufacture to disposal of pharma / medical waste at homes, pharmacies, and hospitals	22/4/26 24/4/26	11	
Chapter-18	70	Bioethics - Basic concepts, history and principles. Brief overview of ICMR's National Ethical Guidelines for Biomedica	27/4/26 29/4/26	11	
	71	Health Research involving human participants	11/5/26	11	
Chapter-19	72	Introduction to the Consumer Protection Act	18/5/26	11	
Chapter-20	73	Introduction to the Disaster Management Act	15/5/26	11	
Chapter-21	74	Medical Devices – Categorization	18/5/26	11	
	75	basic aspects related to manufacture and sale	20/5/26	11	

Mamba

Signature of the subject Teacher

Mamba

Principal

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