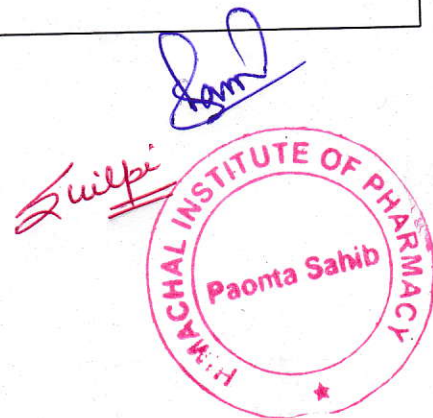


Himachal institute of Pharmacy				
Annual Lesson Plan				
Name of the faculty		Mr. Ayush Sharma		
Discipline		Pharmacy		
Semester/year		Diploma 1 Year		
Subject		SOCIAL PHARMACY		
Lesson plan Duration		2023-2024		
Work Load/week (hrs)		Lecture- 03; Tutorial -1,Practical -1 batch/ week		
MONTH/Week	THEORY		PRACTICAL	
	Lecture	TOPIC	No of practical	Practical Topic
SEPT /2nd	Tutorial	Introduction to Social Pharmacy	1	National Immunization schedule for children,adult vaccine schedule
	1 st	Definition and Scope		
	2 nd	Social Pharmacy as a discipline and its scope in improving the public health		
	3 rd	Role of Pharmacists in Public Health.		
3 rd	Tutorial	Revision	2	To study RCH-reproductive and child health
	1 st	Concept of Health		
	2 nd	Concept of Health		
	3 rd	National Health Policy		
4 th	Tutorial	Revision	3	To study Family planning devices
	1 st	Public and Private Health System in India,		
	2 nd	National Health Mission		
	3 rd	Introduction to Millennium Development Goals, Sustainable Development Goals, FIP Development Goal		
OCT /1st	Tutorial	Revision	4	TO study microscopical observation of different microbes
	1 st	Role of Pharmacists in the Demography		
	2 nd	Role of Pharmacists in the Family Planning		
	3 rd	Role of Pharmacists in the Family Planning		
2 nd	Tutorial	Revision	5	To study oral health and hygiene
	1 st	Mother and child health, importance of breastfeeding,		
3 rd	1 st	Ill effects of infant milk substitutes and bottle feeding	6	To study personal hygiene etiquettes
	2 nd	Overview of Vaccines,		
	3 rd	types of immunity		
4 th	Tutorial	ASSIGNMENT-1	7	To study various types of masks
	1 st	types of immunity		
	2 nd	immunization		
	3 rd	Water pollution,		
NOV /2 nd	Tutorial	Revision	8	To study PPE gear,wearing/using them and disposal
	1 st	Water pollution,		
	2 nd	air pollution		
	3 rd	noise pollution,		
3 rd	Tutorial	Revision	9	To study menstrual hygiene

	3rd	occupational illnesses		
4th	Tutorial	Revision	10	To study First Aid theory, basic, demonstration i.e CPR techniques
	1st	Environmental pollution due to pharmaceuticals		
	2nd	Drugs of misuse and abuse – psychotropics, narcotics, alcohol, tobacco products.		
	3rd	Social Impact of these habits on social health and productivity and suicidal behaviours		
5th	Tutorial	Class test		
	1st	Revision for sessionals		
	2nd	Revision for sessionals		
	3rd	Revision for sessionals		
DEC /1st		I SESSIONAL EXAMS		I SESSIONAL EXAMS
2nd	Tutorial	Basics of nutrition	11	To study First Aid- theory for bleeding and choking
	1st	– Macronutrients		
	2nd	– Micronutrients		
	3rd	Importance of water and fibres in diet		
3rd	Tutorial	Revision	12	To study Emergency treatment for snake bite
	1st	Balanced diet, Malnutrition		
	2nd	nutrition deficiency disease		
	3rd	ill effects of junk foods, calorific and nutritive values of various foods		
4th	Tutorial	ASSIGNMENT-2	13	To study Emergency treatment for drug bite
	1st	fortification of food		
	2nd	Introduction to food safety		
	3rd	Dietary supplements, nutraceuticals		
JAN /1st	Tutorial	Revision	14	To study Emergency treatment for fracture
	1st	food supplements – indications		
	2nd	Drug-Food Interactions		
	3rd	Introduction to epidemiology, and its applications		
2nd	Tutorial	Revision	15	To study Emergency treatment for burns
	1st	Understanding of terms such as epidemic, pandemic, endemic, mode of transmission, outbreak, quarantine		
	2nd	isolation, incubation period, contact tracing, morbidity, mortality		
	3rd	Respiratory infections – chickenpox, measles		
3rd	Tutorial	Revision		
	1st	rubella		
	2nd	mumps, influenza		
	3rd	diphtheria		
4th	Tutorial	Revision	16	To study Emergency treatment for epilepsy
	1st	whooping cough		
	2nd	meningococcal meningitis,		
	3rd	acute respiratory infections		

	1 st	tuberculosis, Ebola		To study Emergency treatment for Insecticide poisoning
FEB /1 st	2 nd	Intestinal infections – poliomyelitis		
	3 rd	viral hepatitis		
2 nd	Tutorial	Revision	18	To study Role of Pharmacist in Disaster Management
	1 st	cholera,		
	2 nd	acute diarrheal diseases		
	3 rd	typhoid,		
3 rd	Tutorial	Revision	19	To study Marketed preparations of disinfectant,antiseptics,antiviral agents
	1 st	worm infestations		
	2 nd	food poisoning		
	3 rd	amebiasis		
4 th	Tutorial	Revision	20	To study concept and objectives of health communication
	1 st	Arthropod-borne infections - dengue		
	2 nd	malaria		
	3 rd	filariasis		
5 th	Tutorial	chikungunya	21	To study 5 different communicable disease
	1 st	Revision for sessionals		
MARCH /1 st	2 nd	Revision for sessionals		
	3 rd	Revision for sessionals		
2 nd		II SESSIONAL EXAMS		II SESSIONAL EXAMS
3 rd	Tutorial	Surface infections – trachoma, t	22	Counselling children on junk food,balanced diet
	2 nd	tetanus		
	3 rd	Leprosy		
4 th	Tutorial	Revision	23	To study Preparation of various charts on nutrition
	1 st	STDs		
	2 nd	STDs		
	3 rd	HIV/AIDS		
5 th	Tutorial	ASSIGNMENT-3	24	TO study Tobacco cessation ,counselling,identifying various tobacco containing products through charts/pictures
	1 st	Introduction to health systems and all ongoing National Health programs		
	2 nd	their objectives		
	3 rd	functioning		
APR /1 st	Tutorial	Revision	25	To study Water purification techniques
	1 st	Outcome of National Health programs		
	2 nd	role of pharmacists		
	3 rd	role of pharmacists		
2 nd	1 st	Demography		Revision
	2 nd	Pharmacoeconomics – Introduction		
	3 rd	basic terminologies		
3 rd	Tutorial	Revision		Revision
	2 nd	importance of pharmacoeconomics		
	3 rd	Revision(Unit -1)		
4 th	Tutorial	Revision(Unit -1)		Revision
	1 st	Revision(Unit -1)		
	2 nd	Revision(Unit -2)		
	3 rd	Revision(Unit -2)		
MAY /1 st	Tutorial	Revision(Unit -2)		Revision
	1 st	Revision(Unit -3)		Revision
	2 nd	Revision(Unit -3)		
	3 rd	Revision(Unit -3)		
2 nd	Tutorial	Revision(Unit -4)		

	2 nd	Revision(Unit -4)		
	3 rd	Revision(Unit -4)		
3 rd	Tutorial	Revision(Unit -4)		Revision
	1 st	Revision(Unit -4)		
	2 nd	Revision(Unit -5)		
	3 rd	Revision(Unit -5)		
4 th	Tutorial	Revision(Unit -5)		Revision
	1 st	Revision(Unit -5)		
	2 nd	Revision(Unit -5)		
	3 rd	Revision(Unit -5)		
5 th	Tutorial	Revision(Unit -5)		Revision
	1 st	Revision(Unit -6)		
	2 nd	Revision(Unit -6)		
	3 rd	Revision(Unit -6)		
JUNE /1 st	Tutorial	Revision(Unit -6)		Revision
	1 st	Revision		
	2 nd	Revision		
	3 rd	Revision		
2 nd	Tutorial	Revision		Revision
	1 st	Revision		
	2 nd	Revision		
	3 rd	Revision		



Himachal institute of Pharmacy			
Annual Lesson Plan			
Name of the faculty	Mrs. Manisha Sharma		
Discipline	Pharmacy		
Semester/year	Diploma Ist Year		
Subject	PHARMACEUTICAL CHEMISTRY		
Lesson plan Duration	(2024-2025)		
Work Load/week (hrs)	Lecture- 03; Tutorial -1,Practical- 01/batch		
MONTH/W eek	THEORY		Practical
	Lecture	TOPIC	Practical Topic
SEP/2nd	1 st	Introduction to Pharmaceutical chemistry: Scope and objectives	To study different types of glasswares used in laboratory
	2 nd	Sources and types of errors:	
	Tutorial	Accuracy, precision, significant figures	
	3 rd	Source and effect of impurities in Pharmacopoeial substances	
3rd	1 st	importance of limit test,	To perform limit test for chloride in given sample
	2 nd	Limit test of chloride	
	Tutorial	Revision	
	3 rd	Limit test of sulphate	
4th	1 st	Limit test of iron	To perform limit test for sulphate in given sample
	2 nd	Limit test of heavy metal	
	Tutorial	Revision	
	3 rd	Limit test of arsenic	
OCT/ 1st	1 st	Fundamentals of volumetric analysis,	
	2 nd	Acid-base titration	
	Tutorial	Revision	
	3 rd	non-aqueous titration,	
2nd	1 st	precipitation titration	To perform limit test for iron in given sample
	2 nd	complexometric titration	
	Tutorial	Revision	
	3 rd	redox titration	
3rd	1 st	Gravimetric analysis: Principle and method.	To perform limit test for heavy metals in given sample
	3 rd	Gravimetric analysis: Principle and method.	
4th	1 st	Haematinics:	To perform identification test for Anionic radicals
	2 nd	Haematinics:	
	Tutorial	ASSIGNMENT -1	
	3 rd	Gastro-intestinal Agents:	
5th	1 st	Gastro-intestinal Agents:	To perform identification test for Cationic radicals
NOV/2nd	1 st	Topical agents:	
	2 nd	Topical agents:	
Tutorial	Revision		
	3 rd	Dental products	

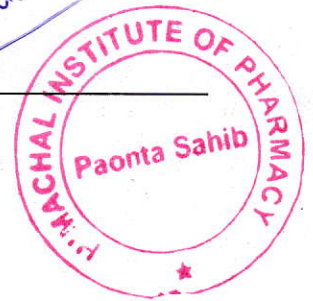
3rd	1 st	Dental products	To prepare and standardize 1N Sodium hydroxide
	2 nd	Medicinal gases:	
	Tutorial	Revision	
4th	1 st	Introduction to nomenclature of organic chemical systems	To prepare and standardize 0.1N KMNO ₄ solution by using standard sol. Of 0.1 N oxalic acid
	2 nd	Heterocyclic nomenclature	
	Tutorial	Heterocyclic nomenclature	
	3 rd	Drugs Acting on Central Nervous System- Anaesthetics:	
5th	1 st	Sedatives and Hypnotics	
	2 nd	Sedatives and Hypnotics	
	Tutorial	Revision for sessionals	
	3 rd	Revision for sessionals	
DEC/IST	1 st	I SESSIONAL EXAMS	I SESSIONAL EXAMS
2nd	1 st	Antipsychotics	To carry out assay of given sample of Ferrous sulphate
	2 nd	Antipsychotics:	
	Tutorial	Anticonvulsants:	
	3 rd	Anticonvulsants:	
3rd	1 st		To carry out assay of Calcium gluconate
		Anti-Depressants:	
	2 nd	Anti-Depressants:	
	Tutorial	Revision	
	3 rd	Sympathomimetic Agents: Direct Acting:	
4th	1 st	Sympathomimetic Agents: Direct Acting:	
	2 nd	Adrenergic Antagonists:	
	Tutorial	Revision	
	3 rd	Adrenergic Antagonists:	
5th	1 st	Cholinergic Drugs and Related Agents:	
JAN/1st	2 nd	Cholinergic Drugs and Related Agents:	To carry out assay of Sodium chloride
	Tutorial	Revision	
	3 rd	Cholinergic Drugs and Related Agents:	
2nd	1 st	Cholinergic Blocking Agents:	To prepare and submit Benzoic acid from Benzamide
	2 nd	Cholinergic Blocking Agents:	
	Tutorial	ASSIGNMENT -2	
	3 rd	Anti-Arrhythmic Drugs:	
3rd	2 nd	Anti-Arrhythmic Drugs:	To prepare and submit Picric Acid from Phenol
	Tutorial	Revision	
	3 rd	Anti-Hypertensive Agents:	
4th	1 st	Anti-Hypertensive Agents:	To determine the melting point of given sample
	2 nd	Antianginal Agents:	
	Tutorial	Revision	
	3 rd	Diuretics	
5th	1 st	Diuretics	To determine the boiling point of given

	Tutorial	Revision	
	3rd	Hypoglycemic Agents:	
FEB/2nd	1st	Hypoglycemic Agents:	To perform the identification test of and purity test of Aspirin
	2nd	Hypoglycemic Agents:	
	Tutorial	Revision	
	3rd	Morphine Analogues, Narcotic Antagonists;	
3rd	1st	Morphine Analogues, Narcotic Antagonists;	To perform the identification test of caffeine
	2nd	NSAIDS	
	Tutorial	Revision	
	3rd	NSAIDS	
4th	1st	Antifungal Agents:	To perform the identification test of paracetamol
	2nd	Antifungal Agents:	
	Tutorial	Revision	
	3rd	Urinary Tract Anti-Infective Agents:	
5th	1st	Anti-Tubercular Agents	
	2nd	Anti-Tubercular Agents	
	Tutorial	Revision for sessionals	
	3rd	Revision for sessionals	
MAR/2nd		2nd SESSIONALS EXAMS	2nd SESSIONALS EXAMS
3rd	1st	Antiviral Agents	To perform the identification test of Sulpha drugs(sulphamethoxazole)
	2nd	Antiviral Agents	
	Tutorial	Antimalarials:	
4th	1st	Antimalarials:	To perform the identification test of Sulpha drugs(sulphadiazine)
	2nd	Sulfonamides	
	Tutorial	Revision	
	3rd	Sulfonamides	
5th	1st	Antibiotics	To perform the systemic qualitative analysis of organic compound i.e Salicylic acid
	2nd	Antibiotics	
	Tutorial	ASSIGNMENT-3	
	3rd	CLASS TEST	
APR/1st	1st	Antibiotics	To perform the systemic qualitative analysis of organic compound i.e Benzoic acid
	2nd	Antibiotics	
	Tutorial	Revision	
	3rd	Antibiotics	
2nd	1st	Antibiotics	To perform preliminary test for Salicylic acid
	2nd	Antibiotics	
	Tutorial	Revision	
	3rd	Antibiotics	
3rd	2nd	Anti-Neoplastic Agents	To perform preliminary test for Benzoic acid
	Tutorial	Revision	
4th	1st	Anti-Neoplastic Agents	
	2nd	Anti-Neoplastic Agents	
	Tutorial	Revision	
	3rd	Anti-Neoplastic Agents	
	2nd	Revision(Ch -1)	
MAY /1st	Tutorial	Revision(Ch -1)	
	3rd	Revision(Ch -1)	
2nd	1st	Revision(Ch-2)	Revision

	Tutorial	Revision(Ch-3)	
	3_{rd}	Revision(Ch-3)	
3rd	1_{st}	Revision(Ch-3)	Revision
	2_{nd}	Revision(Ch-4)	
	Tutorial	Revision(Ch-4)	
	3_{rd}	Revision(Ch-5)	
4th	1_{st}	Revision(Ch-5)	Revision
	2_{nd}	Revision(Ch-6)	
	Tutorial	Revision(Ch-6)	
	3_{rd}	Revision(Ch-7)	
5th	1_{st}	Revision(Ch-7)	Revision
	3_{rd}	Revision(Ch-8)	
JUNE /1st	1_{st}	Revision(Ch-9)	Revision
	2_{nd}	Revision(Ch-10)	
	Tutorial	Revision(Ch-10)	Revision
	3_{rd}	Revision(Ch-11)	
	2nd	Revision(Ch-11)	
	1_{st}	Revision(Ch-11)	Revision
	2_{nd}	Revision(Ch-12)	
	Tutorial	Revision(Ch-12)	
	3_{rd}	Revision(Ch-13)	

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Himachal institute of Pharmacy				
Annual Lesson Plan				
Name of the faculty	Mrs. Amisha Maheshwari			
Discipline	D.Pharmacy			
Semester/year	Diploma 1 st year			
Subject	HAP (Human Anatomy and Physiology)			
Lesson plan Duration	SEP – JUN (2024-2025)			
Work Load/week (hrs)	Lecture- 03; Tutorial -1,Practical- 01/batch			
Week	Theory		Practical	
	Lecture	Topic	Practical	Topic
SEP/2 ND	1 st	U-1 Anatomy and physiology- Introduction and scope	1	To study general techniques for handling compound microscope
	2 nd	Anatomy and physiology- definitions of various terminologies		
	Tutorial	Revision of (chap-1)/ notes checking		
	3 rd	U-2 Structure of cell- basic introduction, components		
3 rd	1 st	Structure of cell- fuctions of cell	2	To study general techniques for collection of blood
	2 nd	U-3 Tissue- Epithelial tissues, it's sub-types and characteristics		
	Tutorial	Revision of (chap-2)/ notes checking		
	3 rd	Tissue- Connective tissues, it's sub-types and characteristics		
4 TH	1 st	Tissue- Muscular tissues, it's sub-types and characteristics	3	To study microscopic examination of epithelial tissue, cardiac tissue, smooth muscles, skeletal muscle, connective tissue and nervous tissue from pre-prepared slides
	2 nd	Tissue- Nervous tissues, it's sub-types and characteristics		
	Tutorial	Revision of (chap-3)/ notes checking		
	3 rd	U-4 Osseous system- Introduction of bones and types of skeleton system		
5 TH	1 st	Osseous system- Axial skeleton (it's bone structure and functions)		
OCT/1 ST	1 ST	Osseous system- Disorders of joints	4	To study human skeleton and appendicular skeleton.
	2 ND	U-5-Haemopoietic system- General Introduction		
2 ND	1 ST	Haemopoietic system- Composition And Functions Of Blood	5	To study human skeleton and appendicular skeleton.
	2 ND	Haemopoietic system- Process Of Haemopoiesis		

	TUTORIAL	Revision of (chap-4)/ notes checking		
3RD	1ST	Haemopoietic system- RBC's (it's characteristics and functions)	6	To determine blood group.
	2ND	Haemopoietic system- WBC's (it's characteristics and functions)		
	TUTORIAL	Revision of (chap-4)/ notes checking		
	3RD	Haemopoietic system- Platelets (it's characteristics and functions)		
4TH	1ST	Haemopoietic system- Mechanism of blood clotting	7	To determine ESR
	2ND	Haemopoietic system- Importance Of Blood Group		
	TUTORIAL	Revision of (chap-4)/ notes checking		
	3RD	U-6 Lymphatic system- lymph, lymphatic system (structure, fuctions and formation)		
5TH	1ST	Lymphatic system- Structure Of Spleen and it's functions		
	2ND	Lymphatic system- Structure And Fuctions Of Lymph Nodes		
	TUTORIAL	Revision of (chap-5)/ notes checking		
NOV/1ST	1ST	U-7 Cardiovascular system- General Introduction, Anatomy of Heart	8	To determine haemoglobin content of the blood.
2ND	1ST	Cardiovascular system- physiology of Heart	9	To Determine Bleeding Time And Clotting Time
	2ND	Cardiovascular system- Blood Vessels And Circulations, Pulmonary Circulation		
	TUTORIAL	Revision of (chap-5)/ notes checking		
	3RD	Cardiovascular system- Coronary Circulation		
3RD	1ST	Cardiovascular system- Systemic Circulation	10	To determine WBC count of blood.
	2nd	Cardiovascular system- Cardiac Cycle, Heart S...		

	3 RD	Cardiovascular system- ECG		
4 TH	1 ST	Cardiovascular system- BP and it's regulations	11	To determine RBC count of the blood
	2 ND	U-8 Respiratory sytem- anatomy of respiratory organs		
	Tutorial	Revision of (chap-6)/ notes checking		
	3 RD	Respiratory sytem- Functions Of Respiratory Organs		
5 TH	1 ST	Respiratory sytem- Regulation And Mechanism Of Respiration	12	To determine differential count of the blood
	TUTORIAL	Revision of (chap-7)/ notes checking		
	3 RD	Lymphatic system- lymph, syste		
DEC/ 1 ST	1ST SESSIONALS (TENTATIVE)			
2 ND	1 ST	Respiratory sytem- Definitions of respiratory volumes and capacities	13	To record BP in various postures.
	2 ND	U-9 Digestive system- General Introduction		To record body temperature, heart rate, pulse rate, respiratory rate
	TUTORIAL	Display of 1 ST sessionals marks		
	3 RD	Digestive system- Anatomy of GIT		
3 RD	1 ST	Digestive system- Physiology of GIT	14	To record force of air expelled (using peak flow meter)
	2 ND	Digestive system- physiology of accessory glands		
	TUTORIAL	Revision of (chap-7)/ notes checking		
	3 RD	Digestive system- Physiology of Digestion		
4 th	1 ST	Digestive system- Physiology of Absorption	15	To measure height, weight and BMI
	2 ND	U-10 Skeletal Muscles- Histology, physiology of muscle contraction		
	TUTORIAL	Revision of (chap-8)/ notes checking		

	3 RD	Skeletal Muscles- Disorders of skeletal muscles		
5 th	1 st	U-11 Nervous system- Classification, Anatomy And Physiology Of Cerebrum		
	2 nd	Nervous system- Anatomy And Physiology Of Cerebellum, mid brain		
	TUTORIAL	Revision of (chap-9)/ notes checking		
	3 RD	Nervous system- functions of hypothalamus		
JAN/ 1 ST	TUTORIAL	Revision of (chap-10)/ notes checking	16	To study Cardiovascular System from chart model
	1 st	Nervous system- Medulla Oblongata, Basal Ganglia		
2 ND	1 ST	Nervous system- Spinal Cord Reflexes	17	To study Respiratory System from chart models
	2 ND	Nervous system- Cranial nerves and their functions		
	TUTORIAL	Revision of (chap-10)/ notes checking		
	3 RD	Nervous system- Anatomy and Physiology of Sympathetic N.S		
3 RD	1 ST	Nervous system- Anatomy and Physiology of Parasympathetic N.S	18	To study Digestive System from chart models.
	TUTORIAL	Revision of (chap-11)/ notes checking		
	2 ND	U-12 Sense organs- Anatomy and Physiology of EYE		
4 TH	1 ST	Sense organs- Anatomy and Physiology of EYE	19	To study Endocrine System from chart models.
	2 ND	Sense organs- Anatomy and Physiology of EAR		
	TUTORIAL	ASSIGNMENT-2		
5 TH	1 ST	Sense organs- Anatomy and Physiology of EAR	20	To study Reproductive System from chart models.
	2 ND	Sense organs- Anatomy and Physiology of SKIN		
	TUTORIAL	Revision of (chap-12)/ notes checking		
FEB/1 ST	1 st	Sense organs- Anatomy and Physiology of TONGUE AND NOSE		
2 nd	1 st	U-13 Urinary system- Anatomy Of Urinary System (U.S)	21	To study Urinary System from chart models.
	2 nd	Urinary system- Physiology Of Urinary System (U.S)		

	TUTORIAL	Revision of (chap-12)/ notes checking		
	3RD	Urinary system- Physiology Of Urine formation		
3RD	1ST	Urinary system- RAS system	22	To study Nervous System from chart models
	2ND	Urinary system- Clearance Tests		
	3RD	U-14 Endocrine system- Introduction		
4TH	1ST	Pituitary gland	23	To study EYE from chart models
	2ND	Endocrine system- Pituitary gland		
	TUTORIAL	Assignment-2 discussion		
	3RD	Endocrine system- Adrenal gland		
5TH	1ST	Endocrine system- Thyroid Gland	24	To record pulse oxygen (before and after exertion)
	2ND	Endocrine system- Parathyroid Gland		
MAR/1ST	1ST	Endocrine system- Pancreas and Gonads		
2ND	2ND SESSIONALS (TENTATIVE)			
3RD	1ST	Endocrine system- Gonads	25	To study skin from chart models.
	2ND	U-15 Reproductive system- Anatomy of male reproductive system		
	TUTORIAL			
4TH	3RD	Reproductive system- Anatomy of male reproductive system		REVISION
	1ST	Reproductive system- Anatomy of female reproductive system		
	2ND	Reproductive system- Anatomy of female reproductive system		
	TUTORIAL	Revision of (chap-13)/ notes checking		
5TH	3RD	Reproductive system- Physiology Of Menstruation		REVISION
	1ST	Reproductive system- Physiology Of Menstruation		
	2ND	Reproductive system- Oogegensis,		
	TUTORIAL	Revision of (chap-14)/ notes checking		
3RD	3RD	Reproductive system- Spermatogenesis		
	1ST	Reproductive system- Pregnancy and parturition		REVISION
6TH	1ST			
APR/1ST	3RD SESSIONALS (TENTATIVE)			

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2 ND	1 ST			REVISION
	2 ND	ASSIGNMENT-3		
	TUTORIAL	REVISION-UNIT-1		
	3 RD	REVISION		
3 RD	TUTORIAL	REVISION U-2		
	1 ST	ASSIGNMENT-3		REVISION
4 TH	1 ST	REVISION U-3		
	2 ND	REVISION		REVISION
	TUTORIAL	REVISION U-4		
	3 RD	REVISION		
5 TH	1 ST	ASSIGNMENT-3		REVISION
	2 ND	REVISION-UNIT-1		
	1 ST	ASSIGNMENT-3		REVISION
	2 ND	REVISION		
	TUTORIAL	REVISION		
	3 RD	REVISION		
MAY/1 ST	1 ST	REVISION		
2 ND	1 ST	REVISION		REVISION
	TUTORIAL	REVISION		
	2 ND	REVISION		
3 RD	1 ST	REVISION		REVISION
	TUTORIAL	REVISION		
	2 ND	REVISION		
4 TH	1 ST	REVISION		
	2 ND	REVISION		REVISION
	TUTORIAL	REVISION		
5 TH	1 ST	REVISION		
	2 ND	REVISION		
	TUTORIAL	REVISION		
	3 RD	REVISION		REVISION
JUNE/1 ST	1 ST	REVISION		
	2 ND	REVISION		
	TUTORIAL	REVISION		
	3 RD	REVISION		
2 ND	1 ST	REVISION		REVISION
	2 ND	REVISION		REVISION
	TUTORIAL	REVISION		
	3 RD	REVISION		

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Prepared by – Mrs. AMISHA MAHESHWARI
Asst. professor



Himachal Institute of Pharmacy

Lesson Plan

Name of the Faculty	Miss. Harshita Pant			
Discipline	Pharmacy			
Semester / Year	Diploma I st Year			
Subject	Pharmacognosy			
Lesson Plan Duration	September – June (2024-2025)			
Work Load /Week(hrs)	Lecture -03: Tutorial-1, Practical -01 batch/Week			
Week	Theory		Practical	
	Lecture	Topic	No. of Practical's	Topic
2 nd Week September	1st	Definition , history of Pharmacognosy	1	To Study Various Parts of Simple Microscope and Compound Microscope
	2nd	Present Status and Scope of Pharmacognosy		
	3rd	Classification of Drugs: Alphabetically, Taxonomical		
	Tutorial	Pharmacological, Chemical Chemo- Taxonomical		
3 rd week September	1st	Quality Control of Crude Drugs	2	To Study Section Cutting Techniques and Staining mounting of Section
	2nd	Different Methods of Adulteration of Crude Drugs		
	3rd	Evaluation of Crude Drugs		
	Tutorial	Revision		
4 th Week September	1st	Brief outline of occurrence, of Alkaloids, Terpenoids , Glycosides , Volatile Oils , Tannins and Resins	3	To Perform the Morphological Study and Identification of given crude drugs : Isphgula, Senna and Coriander
	2nd	Brief outline of Distribution and Isolation of Alkaloids, Terpenoids , Glycosides , Volatile Oils , Tannins and Resins		
	3rd	Identification Test of Alkaloids, Terpenoids , Glycosides , Volatile Oils , Tannins and Resins		
	Tutorial	Class Test		
5 th Week September	1st	Therapeutic Activity of Alkaloids, Terpenoids , Glycosides , Volatile Oils ,		

1 st Week October	1st	Tannins and Resins Pharmaceutical applications of Alkaloids, Terpenoids, Glycosides, Volatile Oils, Tannins and Resins	4	To Perform the Morphological Study and Identification of Rauwolfia, Gokhru and Punarnava
	Tutorial	Revision		
2 nd Week October	1st	Biological Source, Chemical Constituents and Therapeutic Efficacy of the Following Categories of Crude Drugs. Laxatives- Aloe, Castor oil, Ispaghula, Senna	5	To Perform the Morphological Study and Identification of Cardamom and Balack Pepper
	2nd	Cardiotonic – Digitalis, Arjuna		
3 rd Week October	1st	Carminatives and G.I regulators – Coriander, Fennel, Cardamom		
	2nd	Ginger, Clove, Balack Paper, Asafoetida, Nutmeg, Cinnamon		
	3rd	Astringents- Myrobalan, Balack Catechu Pale Catechu		
	Tutorial	Revision		
4 th Week October	1st	Drugs Acting on Nervous System – Hyoscyamus, Belladonna, Ephedra	6	To Perform the Morphological Study and Identification of Neem and Tulsi
	2nd	Opium, Tea leaves, Coffee seeds, Coca		
	3rd	Anti- hypertensive – Rauwolfia		
	Tutorial	Revision		
5 th Week October	1st	Anti-tussive – Vasaka, Tolu Balsam		
	2nd	Anti-rheumatics- Colchicum seed		
1 Week November	1st	Anti- tumour- Vinca, Podophyllum		
	Tutorial	Class Test		
2 nd Week November	1st	Antidiabetics – Pterocarpus, Gymnema	7	To Perform the Morphological Study and Identification of Ginger and Fennel
	2nd	Diuretics- Gokhru, Punarnava		
	3rd	Anti- dysenteric – Ipecacuanha		
	Tutorial	Revision		
3 rd Week November	1st	Antiseptics and Disinfectants – Benzoin, Myrrh, Neem, Turmeric	8	To Perform the Morphological Study and Identification of Clove and Cinnamon
	2nd	Antimalarials – Cinchona,		

		Artemisia		
	3rd	Oxytocic – Ergot		
	Tutorial	Revision		
4th Week November	1st	Vitamins- Cod Liver oil , Shark liver oil	9	To Perform the Morphological Study and Identification of Fennel
	2nd	Enzymes – Papaya, Diastase, Pancreatin, Yeast		
	3rd	Pharmaceutica Aids – Kaolin , Lanolin, Besswax , Acacia		
	Tutorial	Revision		
5th Week November	1st	Tragacanth , Sodium alginate , Agar, Guar gum , Gelatine	10	To Perform the Morphological Study and Microscopical Study of Liquorice
	2nd	Miscellaneous – Squill, Galls , Ashwagandha, Tulsi, Guggul		
	3rd	Plant Fibres used as Surgical dressing : Cotton		
	Tutorial	Class Test		
1st Week December		Ist Sessional Exam		
2nd Week December	1st	Silk , Wool	11	To Perform the Morphological Characteristics of Drug acting on Anti- malarial (Agar)
	2nd	Regenrated Fibres		
	3rd	Sutures – Surgical Catgut and Ligatures		
	Tutorial	Revision		
3rd Week December	1st	Basic Principles involved in the traditional Systems of medicine like : Ayurveda , Siddha	12	To perform the Microscopy of Vinca
	2nd	Unani and Homeopathy		
	3rd	Method of Preparation of Ayurvedic formulations like : Arista		
	Tutorial	Class Test		
4th Week December	1st	Asava , Gutika	13	To Perform the Morphological Study and Identification of Nutmeg
	2nd	Taila, Churna		
	Tutorial	Revision		
5th Week December	1st	Lehya and Bhasma		
1st Week January	1st	Export Potential of Medicinal plants in national economy	14	To Perform the Morphological Study and Identification of Asafoetida

	2nd	Herbs as Healthy Food		
	Tutorial	Revision		
2nd Week January	1st	Brief Introduction of Nutraceuticals	15	To Study Microscopy Character of Coriander
	2nd	Therapeutic Applications of Nutraceuticals		
	3rd	Brief Introduction of Antioxidants		
	Tutorial	Revision		
3rd Week January	1st	Therapeutic Applications of Antioxidants	16	To Perform the Microscopy of Clove
	2nd	Brief Introduction of Pro-biotics		
	3rd	Therapeutic Application of Pro-biotics		
	Tutorial	Class Test		
4th Week January	1st	Brief Introduction of Pre-biotics	17	To Perform the Microscopy of Turmeric
	2nd	Therapeutic Application of Pre-biotics		
5th Week January	1st	Brief Introduction of Dietary Fibres	18	To Perform the Microscopy of Cinnamon
	2nd	Therapeutic Application of Dietary Fibres		
1st Week February	1st	Brief Introduction of Omega-3-fatty acids		
	Tutorial	Revision		
2nd Week February	1st	Therapeutic Application of Omega-3-fatty acids	19	To Perform the Microscopy of Vasaka
	2nd	Brief Introduction of Spirulina		
	3rd	Therapeutic Application of Spirulina		
	Tutorial	Class Test		
3rd Week February	1st	Brief Introduction of Carotenoids	20	To Perform the Microscopy of Ginger
	2nd	Therapeutic Application of Carotenoids		
	Tutorial	Revision		
4th Week February	1st	Brief Introduction of Soya	21	To Perform the Microscopy of Ashwagandha
	2nd	Therapeutic Application of Soya		
	3rd	Brief Introduction of Garlic		
	Tutorial	Revision		
5th Week	1st	Therapeutic Application of	22	To Perform the

February		Garlic		Physical and Chemical test for Tragacanth
1st Week March	1st	Introduction of Herbal Formulations		
	Tutorial	Revision		
2nd Week March		II Sessional Exam		
3rd Week March	1st	Sources , chemical constituents and commercial preparations of Aloe vera gel	23	To Perform the Microscopy of Nux-Vomica
	2nd	Therapeutic and cosmetic uses of Aloe vera gel		
	3rd	Sources , Chemical constituents and Commercial preparation of Almond oil		
	Tutorial	Revision		
4th Week March	1st	Therapeutic and cosmetic uses of Almond oil	24	To Perform the Physical and Chemical test for Castor oil
	2nd	Sources , Chemical constituents and Commercial preparation of Lavender oil		
	3rd	Therapeutic and cosmetic uses of Lavender oil		
	Tutorial	Revision		
5th Week March	1st	Sources , Chemical constituents and Commercial preparation of Olive Oil	25	To Study the Demonstration of Herbal Formulations Tablet, Capsule , Syrup etc
	2nd	Therapeutic and cosmetic uses of Olive oil		
	3rd	Sources , Chemical constituents and Commercial preparation of Rosemary Oil		
	Tutorial	Class Test		
6th Week March	1st	Therapeutic and cosmetic uses of Rosemary Oil		
1st Week April	1st	Sources , Chemical constituents and Commercial preparation of Sandal Wood Oil		Revision
	2nd	Therapeutic and cosmetic uses of Sandal Wood Oil		
	Tutorial	Revision		
2nd Week April	1st	Phytochemical Investigation of Drugs		
	2nd	Revision		Revision
	3rd	Revision		
	Tutorial	Class Test		
3rd Week April	1st	Revision		
4th Week April	1st	Unit -1 REVISION		
	2nd	Unit -2 REVISION		Revision

	3rd	Unit -3 REVISION		
	Tutorial	Unit -1 REVISION		
5th Week April	1st	Unit -4 REVISION		
1st Week May	1st	Unit -5 REVISION		Revision
	2nd	Unit -6 REVISION		
	3rd	Unit -7 REVISION		
	Tutorial	Class Test		
2nd Week May	1st	Unit -8 REVISION		Revision
	2nd	Unit -9 REVISION		
	3rd	Unit -10 REVISION		
	Tutorial	Unit -11 REVISION		
3 rd Week May	1st	Unit -12 REVISION		Revision
	2nd	Unit -12 REVISION		
	Tutorial	Unit -9 REVISION		
4th Week May	1st	Unit -1 REVISION		Revision
	2nd	Unit -2 REVISION		
	3rd	Unit -3 REVISION		
	Tutorial	Unit -2 REVISION		
5th Week May	1st	Unit -4 REVISION		Revision
	2nd	Unit -5 REVISION		
	3rd	Unit -6 REVISION		
	Tutorial	Unit -7 REVISION		
1st Week June	1st	Unit -8 REVISION		Revision
	2nd	Unit -9 REVISION		
	3rd	Unit -10 REVISION		
	Tutorial	Unit -11 REVISION		
2nd Week June	1st	Unit -12 REVISION		Revision
	2nd	Unit -1 REVISION		
	3rd	Unit -2 REVISION		
	Tutorial	Unit -3 REVISION		

Prepared by – Harshita Pant



Himachal institute of Pharmacy			
Annual Lesson Plan			
Name of the faculty		Mr. Mohd Afsar	
Discipline		Pharmacy	
Semester/year		Diploma 1 st Year	
Subject		Pharmaceutics	
Lesson plan Duration		25 weeks (2024-2025)	
Work Load/week (hrs)		Lecture- 03; Tutorial -1, Practical -1 / week	
MONTH/Week	THEORY		Practical
	Lecture	TOPIC	Practical Topic
SEP/ 2nd	1 st	History of profession of Pharmacy in India in relation to Pharmacy education.	To study the various part of prescription and Latin term used in prescription.
	2 nd	Industry, pharmacy practice and various professional careers.	
	Tutorial	Revision	
	3 rd	Pharmacy as career.	
3rd	1 st	Introduction to IP	To prepare and submit 50 ml of Magnesium Hydroxide mixture.
	2 nd	BP, USP, NF	
	Tutorial	Revision	
	3 rd	Introduction of extra pharmacopoeia	
4th	1 st	Salient features and Indian Pharmacopoeia	To prepare and submit 10gm of simple syrup.
	2 nd	Packaging materials: Type, selection criteria	
	Tutorial	Revision	
	3 rd	Advantages and disadvantages of glass	
5th	1 st	Advantages and disadvantages of plastic, metal	To prepare and submit 50 ml of NaOH mixture.
	2 nd	Advantages and disadvantages of rubber as packaging materials.	
OCT/ 1st	1 st	Pharmaceutical aids: Organoleptic (Coloring, flavoring) agent.	To prepare and submit 10mg of simple ointment.

		Organoleptic (Coloring, flavoring) agent.	simple ointment.
	2 nd	Pharmaceutical aids: Organoleptic (Sweetening) agents	
	Tutorial	Revision	
	3 rd	Preservatives: Definition, types with examples and uses.	
2 nd	1 st	Unit Operation: Definition, objectives, principle, construction and working.	To prepare and submit 50ml of liquid paraffin emulsion.
	2 nd	Size Reduction: hammer mill and ball mill.	
	Tutorial	ASSIGNMENT -1	
3 rd	1 st	Size separation: Classification of powders according to IP.	To prepare and submit Orange tincture (IP).
	2 nd	Cyclone separator, Sieves and standard sieves.	
	Tutorial	Revision	
	3 rd	Mixing: Double cone blender, Turbine mixture	
4 th	1 st	Triple roller mill and Silverson mixer homogenizer.	To prepare and submit Acetyl Salicylic acid Tablet (Aspirin).
	2 nd	Filtration: Theory of filtration, Membrane filter and sintered glass filter.	
	Tutorial	Revision	
	3 rd	Drying: Working of fluidized bed dryer and process of freeze drying.	
5 th	1 st	Extraction: Definition, Classification methods and applications.	
	2 nd	Tablets: Coated and	

		uncoated, various modified tablets.	
NOV/2 nd	1 st	Capsules: Hard and soft gelatin Capsules	To prepare and submit Paracetamol Tablet.
	2 nd	Liquid oral preparations: Solution, Syrup, Elixir	
	Tutorial	Revision for sessional	
	3 rd	Revision for sessional	
3 rd	1 st	1st SESSIONAL EXAM	1st SESSIONAL EXAM
4 th	1 st	Emulsions, Suspensions, dry powder for reconstitution.	To Prepare and submit 10 capsules of aspirin, paracetamol.
	2 nd	Topical Preparations: ointment, creams, pastes, gels, liniments and lotions, suppositories and pessaries.	
	Tutorial	Revision	
	3 rd	Powders and Granules: Insufflations, dusting powders.	
5 th	1 st	Effervescent powders and effervescent granules.	Prepare and submit 200ml of PCM Elixir.
	2 nd	Sterile Formulations: Injectables, Eye drops and eye ointments	
	Tutorial	Revision	
	3 rd	Immunological products: Sera, vaccines, toxoids and their manufacturing methods.	
DEC/1st	1 st	Basic structure layout, section and activities	Prepare and submit 10gm of Castor oil emulsion.

		of pharmaceutical manufacturing plants.	
	2nd	QA and QC	
	Tutorial	Revision	
	3 rd	Definition and concepts of QA and QC	
2nd	1 st	cGMP	Prepare and submit 10 gm of Sulphur ointment.
	2 nd	Introduction to the concept of calibration and validation.	
	Tutorial	Revision	
	3 rd	Novel Drug Delivery System: Introduction	
3rd	1 st	Introduction of NDDS	To prepare and submit 20 gm of sodium alginate gel.
	2 nd	Classification with examples.	
	Tutorial	Revision	
	3 rd	Advantages of NDDS	
4th	1 st	Challenges of NDDS.	To prepare and submit 10gm of cetrimide cream.
	2 nd	Revision (CH-1)	
	Tutorial	Revision Revision	
	3 rd	Revision (CH-1)	
5th	1 st	Revision (CH-1)	Prepare and submit 5 gm of Dusting Powder.
	2 nd	Revision (CH-1)	
JAN/1st	Tutorial	Seminar	
	3 rd	Revision (CH-1)	
2nd	1 st	Revision (CH-1)	Prepare and submit of 10 ampoules of Normal saline injection.
	2 nd	Revision (CH-1)	
	Tutorial	Seminar	
	3 rd	Revision (CH-2)	
3rd	1 st	Revision (CH-2)	Prepare and submit 10 gm of toothpaste.
	2 nd	Revision (CH-2)	
	Tutorial	ASSIGNMENT -2	
	3 rd	Revision (CH-2)	
4th	1 st	Revision (CH-2)	Prepare and submit 5 ampoules of 10

	2 nd	Revision (CH-3)	ml dextrose injection.
	Tutorial	Revision	
5th	1 st	Revision (CH-3)	
	2 nd	SEMINAR	
	Tutorial	SEMINAR	
FEB/1st	3 rd	Revision (CH-3)	Prepare and submit 20 gm of vanishing cream.
2nd	1 st	Revision (CH-3)	
	2 nd	Revision (CH-3)	
	Tutorial	Revision	
	3 rd	Revision (CH-3)	
3rd	1 st	Revision (CH-4)	Demonstration of quality control and evaluation of PCM tablet.
	2 nd	Revision (CH-4)	
	Tutorial	Revision	
	3 rd	Revision (CH-4)	
4th	1 st	Revision (CH-4)	To demonstrate on quality control and evaluation of tetracycline capsule.
	2 nd	Revision (CH-4)	
	Tutorial	Revision	
	3 rd	Revision (CH-4)	
5th	1 st	Revision (CH-5)	
	2 nd	Revision (CH-5)	
	Tutorial	Revision for sessionals	
MAR/1st	3 rd	Revision for sessionals	
2nd		2 nd SESSIONAL EXAMS	2 nd SESSIONAL EXAMS
3rd	1 st	Revision (CH-5)	Prepare and submit 10 gm cold cream.
	2 nd	Revision (CH-5)	
	3 rd	Revision (CH-5)	
4th	1 st	Revision (CH-5)	Prepare and submit 10 gm of white liniment.
	2 nd	Revision (CH-5)	
	Tutorial	Revision	
	3 rd	Revision (CH-5)	
5th	1 st	Revision (CH-5)	Prepare and submit 10 gm of Calamine liniment.
	2 nd	Revision (CH-5)	

	Tutorial	Revision	
	3 rd	Revision (CH-5)	
APR/1 st	Tutorial	Revision	
	3 rd	Revision (CH-5)	
2 nd	1 st	Revision(CH-5)	Revision
	2 nd	Revision(CH-5)	
	Tutorial	Revision(CH-5)	
	3 rd	Revision(CH-5)	
3 rd	3 rd	Revision(CH-5)	
4 th	1 st	Revision(CH-6)	Revision
	2 nd	Revision(CH-6)	
	Tutorial	Revision(CH-6)	
	3 rd	Revision(CH-6)	
5 th	1 st	Revision(CH-6)	Revision
	2 nd	Revision(CH-6)	
MAY/1 st	Tutorial	Revision(CH-7)	
	3 rd	Revision(CH-7)	
2 nd	1 st	Revision(CH-7)	Revision
	2 nd	Revision(CH-7)	
	Tutorial	Revision(CH-7)	
	3 rd	Revision(CH-7)	
3 rd	Tutorial	Revision(CH-5)	Revision
	3 rd	Revision(CH-5)	
4 th	1 st	Revision(CH-7)	Revision
	2 nd	Revision(CH-7)	

Appan

Swilpi

