

**Performa Hindu College of Pharmacy, Sonapat  
Lesson Plan**

**Name of the Faculty** : SHILPA JAIN  
**Discipline** : D. Pharmacy  
**Annual** : 2nd Year  
**Subject** : Pharma chem. II  
**Lesson Plan Duration** : 25 weeks (from July, 2018 to April, 2019)

**Work Load(lecture/practical) per week (in hours): Lecture-04,Practicals-6hr**

Week	Theory		Practical	
	lecture day	Topic (including assignment/test)	Practical day	Topic
<b>1<sup>st</sup>(July. 3<sup>rd</sup> week)</b>	1st	Introduction to the nomenclature of heterocyclic system	1st (Batch A)	Identification test of calcium gluconate
	2nd	Antiseptics and Disinfectants (Proflavine, Benzalkonium chloride, Cetrimide, Chlorocresol)	2nd(Batch B)	do
	3rd	Antiseptics and Disinfectants (Chloroxylene, Formaldehyde solution, Hexachlorophene, Liquified phenol, Nitrofurantoin)		
	4th	Antileprotic Drugs-Clofazimine, Thiambutosine, Dapsone, Solapsona.		
<b>2nd(july. 4<sup>th</sup> week)</b>	1st	Anti-tubercular Drugs(Isoniazid, PAS, Streptomycin, Rifampicin, Ethambutol)	1st (Batch A)	Identification test of ascorbic acid
	2nd	Anti-tubercularDrugs (thiacetazone,ethionamide,cycloserine,pyrazinamide)	2nd(Batch B)	do
	3rd	Antiamoebic and Anthelmintic Drugs (Emetine, Metronidazole, Halogenated hydroxyquinolines, diloxanidefuroate		
	4th	Antiamoebic and Anthelmintic Drugs (Paramomycin Piperazine,		
<b>3rd(Aug.</b>	1st	Mebendazole, D.E.C	1st (Batch A)	Identification test of hydrogen peroxide

<b>1<sup>st</sup> week)</b>	2nd	Antifungal agents	2nd(Batch B)	do
		Undecylenic acid, Tolnaftate		
	3rd	Nystatin, Amphotericin		
	4th	Hamycin.		
<b>4th(Aug. 2<sup>nd</sup> week)</b>	1st	Antimalarial (Drugs- Chloroquine, Amodiaquine, Primaquine, Proguanil)	1st (Batch A)	Identification test of boric acid
	2nd	Antimalarial (Pyrimethamine, Quinine, Trimethoprim)	2nd(Batch B)	do
	3rd	Tranquilizers-(Chlorpromazine, Prochlorperazine,		
	4th	Trifluoperazine , Thiothixene, Haloperidol		
<b>5th(Aug. 3<sup>rd</sup> week)</b>	1st	Hypnotics (Phenobarbitone, Butobarbitone,)	1st (Batch A)	Identification test of iodine
	2nd	(Cyclobarbitone, Nitrazepam)	2nd(Batch B)	do
	3rd	Hypnotics (Glutethimide, Methyprylone)		
	4th	(Paraldehyde, Triclofos sodium)		
<b>6th(Aug. 4<sup>th</sup> week)</b>	1st	Antidepressant Drugs(Amitriptyline, Nortriptyline)	1st (Batch A)	Identification test of aspirin
	2nd	Imipramine, phenelzine and tranylcypromine	2nd(Batch B)	do
	3rd	General Anaesthetics-Halothane, Cyclopropane, Diethyl ether)		
	4th	General Anaesthetics (Methohexital sodium, Thiopental sodium, Trichloroethylene)		
<b>7th (Sept.)</b>	1st	Revision	1st (Batch A)	Identification test of calamine

<b>1<sup>st</sup> week)</b>	2nd	Analeptics-Theophylline, Caffeine,	2nd(Batch B)	do
	3rd	Dextroampheta mine		
	4th	Adrenergic Antagoinst		
<b>8th(Sept. 2<sup>nd</sup> week)</b>	1st	Tolazoline, Propranolol, Practolol.	1st (Batch A)	Identification test of ammonium chloride
	2nd	Cholinergic Drugs-Neostigmine,	2nd(Batch B)	do
	3rd	Pyridostigmine, Pralidoxime,		
	4th	Pilocarpine, Physostigmine.		
<b>9th(Sept. 3<sup>rd</sup> week)</b>	1st	Steroidal Drugs-Betamethazone, Cortisone, Hydrocortisone	1st (Batch A)	Identify given organic compound
	2nd	prednisolone, Progesterone, Testosterone	2nd(Batch B)	
	3rd	Oestradiol, Nandrolone.		
	4th	Cholinergic Antagonists-Atropine, Hysocine, Homatropine, Propantheline.		
<b>10th(Oct. 1<sup>st</sup> week)</b>	1st	Benztrophine, Tropicamide, Biperiden.	1st (Batch A)	Identify given organic compound
	2nd	Diuretic Drugs- Furosemide, Chlorothiazide.	2nd(Batch B)	do
	3rd	Hydrochlorothaizide, Benzthiazide, Urea, Mannitol, Ethacrynic Acid.		
	4th	Cardiovascular Drugs-Ethyl nitrite, Glyceryl trinitrate, Alpha methyl dopa.		
<b>11th(Oct</b>	1st	Guanethidine, Clofibrate, Quinidine.	1st (Batch A)	Identify given organic compound
	2nd	Coagulants and Anti-Coagulants	2nd(Batch B)	do

<b>. 2<sup>nd</sup> week)</b>	3rd	Heparin, Thrombin, Menadione.		
		Local Anaesthetics-Lignocaine, Procaine, Benzocaine.		
	4th			
<b>12th(Nov. 2<sup>nd</sup> week)</b>	1st	Analgesics and Anti-pyretics-	1st (Batch A)	Identify given organic compound
	2nd	Morphin, Pethidine	2nd(Batch B)	do
	3rd	Codeine, Methadone, Aspirin		
	4th	Paracetamol, Analgin, Dextropropoxyphene, Pentazocine		
<b>13th(Nov. 3<sup>rd</sup> week)</b>	1st	Non-steroidal anti-inflammatory Agents	1st (Batch A)	Identify given organic compound
	2nd	Indomethacin, phenylbutazone, Oxyphenbutazone, , Ibuprofen	2nd(Batch B)	do
	3rd	revision		
	4th	revision		
<b>14<sup>th</sup> (Nov. 4<sup>th</sup> week)</b>	1st	Thyroxine and Antithyroids- Thyroxine, Methimazole	1st (Batch A)	Identify given organic compound
	2nd	Methylthiouracil, Propylthiouracil.	2nd(Batch B)	do
	3rd	Diagnostic Agents		
	4th	Iopanoic Acid, Propylidone, Sulfobromophthalein.		
<b>15th(Dec. 1<sup>st</sup> week)</b>	1st	Sodium indigotindisulfonate, Indigo Carmine	1st (Batch A)	Identify given organic compound
	2nd	Evans blue, Congo Red, Fluorescein Sodium .	2nd(Batch B)	do
	3rd	Anticonvulsants		

	4th	cardiac glycosides		
16 <sup>th</sup> (Dec. 2 <sup>nd</sup> week )	1st	Antiarrhythmic	1st (Batch A)	Identify given organic compound
	2nd	antihypertensives	2nd(Batch B)	do
	3rd	Vitamins- fat soluble		
	4th	Vitamins- water soluble		

17 <sup>th</sup> (Jan. 2 <sup>nd</sup> week )	1 <sup>st</sup>	Antibiotics-(Benzyl-Penicillin, Phenoxy methyl Penicillin,	1st (Batch A)	Identify given organic compound
	2 <sup>nd</sup>	Benzathine Penicillin, Ampicillin, Cloxacillin	2nd(Batch B)	do
	3 <sup>rd</sup>	Carbenicillin, Gentamicin, Neomycin , Erythromycin		
	4 <sup>th</sup>	Tetracycline and its variants		
18 <sup>th</sup> (Jan. 3 <sup>rd</sup> week )	1 <sup>st</sup>	Cephalexin, Cephaloridine	1st (Batch A)	Identify given organic compound
	2 <sup>nd</sup>	Cephalothin, Griseofulvin	2nd(Batch B)	do
	3 <sup>rd</sup>	Chloramphenicol.		
	4 <sup>th</sup>	Tranquilizers (Triperidol, Oxypertine)		
19 <sup>th</sup> (Jan. 4 <sup>th</sup> week )	1 <sup>st</sup>	Chlordiazepoxide, Diazepam,	1st (Batch A)	Identify given organic compound
	2 <sup>nd</sup>	Meprobamate, Lorazepam	2nd(Batch B)	do
	3 <sup>rd</sup>	Hypoglycemic Agents-Insulin, Chlorpropamide		
	4 <sup>th</sup>	Tolbutamide, Glibenclamide,		
20 <sup>th</sup> (feb. 2 <sup>nd</sup> week )	1 <sup>st</sup>	Phenformin , Metformin.	1st (Batch A)	Viva- voice
	2 <sup>nd</sup>	Histamine and Antihistaminic Agents-Histamine,.	2nd(Batch B)	do
	3 <sup>rd</sup>	Diphenhydramine, Promethazine		
	4 <sup>th</sup>	Cyproheptadine, Mepyramine		
21 <sup>th</sup> (feb. 3 <sup>rd</sup> week )	1 <sup>st</sup>	Pheniramine, Chlorpheniramine.	1st (Batch A)	Identify given organic compound
	2 <sup>nd</sup>	Adrenergic Drugs-Adrenaline, Noradrenaline	2nd(Batch B)	do
	3 <sup>rd</sup>	Isoprenaline, Phenylephrine		
	4 <sup>th</sup>	Salbutamol, Terbutaline		
22 <sup>th</sup> (feb. 4 <sup>th</sup> week )	1 <sup>st</sup>	Ephedrine , Pseudoephedrine.	1st (Batch A)	Identify given organic compound
	2 <sup>nd</sup>	Sulfonamides-Sulfadiazine, Sulfaguanidine	2nd(Batch B)	do
	3 <sup>rd</sup>	Phthaly sulfathiazole,		

		Succinylsulfathiazole		
	4 <sup>th</sup>	Sulfadimethoxine,		
<b>23<sup>th</sup> (Mar. 1st week )</b>	1 <sup>st</sup>	Sulfamethoxazole, co-trimoxazole	1st (Batch A)	Synthesize diazoaminobenzene from aniline
	2 <sup>nd</sup>	Sulfacetamide	2nd(Batch B)	do
	3 <sup>rd</sup>	Sulfamethoxypridazine,		
	4 <sup>th</sup>	Anti- Neoplastic Drugs- classification		
<b>24<sup>th</sup> (Mar. 3rd week )</b>	1 <sup>st</sup>	Actinomycins, Azathioprine	1st (Batch A)	Synthesize benzil from benzoin
	2 <sup>nd</sup>	Busulphan, Chlorambucil, Cisplatin	2nd(Batch B)	do
	3 <sup>rd</sup>	cyclophosphamide, Daunorubicin hydrochloride,		
	4 <sup>th</sup>	Fluorouracil, Mercaptopurine, Methotrexate, Mytomyacin.		
<b>25<sup>th</sup> (Apr 1<sup>st</sup> week)</b>	1 <sup>st</sup>	Practical sessional exam		
	2 <sup>nd</sup>	Practical sessional exam		

