**Performa Hindu College of Pharmacy, Sonepat**

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|  |  |  | **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 , 2019 to April, 2020)** |
|  |  |
| **Work Load(lecture/practical) per week (in hours): Lecture-04,Practicals-6hr** |  |
|  |  |  |  |  |
| **Week** |  | **Theory** |  | **Practical** |
|  |  |  |  |  |
|  | **lecture day** | **Topic (including assignment/test)** | **Practical day** | **Topic** |
|  |  |  |  |  |  |
|  |  |  |  |  | Identification test of calcium gluconate  |
| **1st(July.** | 1st | Introduction to the nomenclature of heterocyclic system  | 1st (Batch A) |  |
| 2nd |  Antiseptics and Disinfectants (Proflavine, Benzalkonium chloride, Cetrimide, Chlorocresol) |  | do |
|  **4TH** | 2nd(Batch B) |  |
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|  |  |  |  |  |
| **week)** |  | Antiseptics and Disinfectants |  |  |
| 3rd | (Chloroxylene, Formaldehyde solution, Hexachlorophene, Liquified phenol, Nitrofurantoin) |  |  |
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|  | 4th | Antileprotic Drugs-Clofazimine, Thiambutosine, Dapsone, Solapsone. |  |  |
|  |  |  |  |  |
|  |  |  |  | Identification test of ascorbic acid |
|  | 1st | Anti-tubercular Drugs(Isoniazid, PAS, Streptomycin, Rifampicin, Ethambutol) | 1st (Batch A) |  |
|  |  |  |  |  |
| **2nd(Aug.** |  | Anti-tubercularDrugs (thiacetazone,ethionamide,cycloserine,pyrazinamide) | 2nd(Batch B) | Do |
| **1st** | 2nd |  |  |  |  |
|  **week)** |  |  |  |  |  |
|  |  | Antiamoebic and Anthelmintic Drugs (Emetine, Metronidazole, Halogenated hydroxyquinolines, diloxanidefuroate |  |  |
|  | 3rd |  |  |  |
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|  | 4th | Antiamoebic and Anthelmintic Drugs (Paramomycin Piperazine,  |  |  |  |
|  |  |  |  |  |  |
|  |  | Mebendazole, D.E.C |  |  | Identification test of hydrogen peroxide |
| **3rd(Aug.** | 1st |  | 1st (Batch A) |  |
|  |  |  |  |
| 2nd | Antifungal agents | 2nd(Batch B) | Do |
|  |  |  |  |  |  |
|  | Undecylenic acid, Tolnaftate |  |  |
| **2nd** **week)** |  |  |
| 3rd | Nystatin, Amphotericin |  |  |  |
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|  | 4th |  |  |  |
|  |  |  Hamycin. |  |  |  |
|  |  | Antimalarial (Drugs-Chloroquine, Amodiaquine, Primaquine, Proguanil) |  |  | Identification test of boric acid |
| **4th(Aug.** | 1st |  | 1st (Batch A) |  |
|  |  |  |  |
| 2nd | Antimalarial (Pyrimethamine,Quinine, Trimethoprim) | 2nd(Batch B) | Do |
| **3rd** |  |  |  |  |  |
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| **week)** |  |  |  |  |
| 3rd | Tranquilizers-(Chlorpromazine, Prochlorperazine, |  |  |
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|  | 4th | TrifluoPerazine, Thiothixene, Haloperidol |  |  |  |
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|  |  | Hypnotics (Phenobarbtone, Butobarbitone,) |  |  | Identification test of iodine |
| **5th(Aug.** | 1st |  | 1st (Batch A) |  |
|  |  |  |  |
| 2nd | (Cyclobarbitone, Nitrazepam) | 2nd(Batch B) | Do |
| **4th** |  |  |  |  |  |
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| **week)** |  |  | Hypnotics (Glutethimide, Methyprylone) |  |
| 3rd |  |  |  |
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|  | 4th | (Paraldehyde, Triclofos sodium) |  |  |
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| **6th(Aug.** | 1st | Antidepressant Drugs(Amitriptyline, Nortryptyline) | 1st (Batch A) |  |
|  |  |  | Identification test of aspirin |
| 2nd | Imipramine, phenelzine and tranylcypromine | 2nd(Batch B) | Do |
| **5th** |  |  |  |  |  |
| 3rd | General Anaesthetics-Halothane, Cyclopropane, Diethyl ether) |  |  |
|  **week)** |
|  |  |  |  |  |
| 4th | General Anaesthetics (Methohexital sodium, Thiopental sodium, Trichloroethyelene) |  |  |
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| **7th (Sept.** | 1st | Revision |  | 1st (Batch A) | Identification test of calamine |
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| 2nd | Analeptics-Theophylline, Caffeine, | 2nd(Batch B) | do |
| **1st** |  |  |  |  |  |
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| **week)** | 3rd | Dextroamphetamine |  |  |  |
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|  | 4th | Adrenergic Antagoinst |  |  |  |
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|  |  | Tolazoline, Propranolol, Practolol. |  | Identification test of ammonium chloride |
|  | 1st |  | 1st (Batch A) |  |
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| **8th(Sept.** |  | Cholinergic Drugs-Neostigmine, |  | Do |
| **2nd** **week)** | 2nd |  | 2nd(Batch B) |  |
|  | Pyridostigmine, Pralidoxime, |  |  |
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|  | 3rd |  |  |  |
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|  | 4th | Pilocarpine, Physostigmine. |  |  |
| **9th(Sept.****3rd** **week)** | 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. |  |  |
| **10th(Oct.** | 1st | Benztrophine, Tropicamide, Biperiden. | 1st (Batch A) | Identify given organic compound |
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|  **1st** |  |  |  |  |
|  | 2nd | Diuretic Drugs-Furosemide,Chlorothiazide. | 2nd(Batch B) | Do |
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| **week)** |  |  |  |  |
| 3rd | Hydrochlorothaizide, Benzthiazide, Urea,Mannitol , Ethacrynic Acid. |  |  |
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|  | 4th | Cardiovascular Drugs-Ethyl nitrite, Glyceryl trinitrate, Alpha methyl dopa. |  |  |
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| **11th(Oct** | 1st | Guanethidine, Clofibrate, Quinidine. | 1st (Batch A) | Identify given organic compound  |
|  |  |  |  |
| 2nd | Coagulants and Anti-Coagulants | 2nd(Batch B) | Do |
| **. 2nd** |  |  |
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| **week)** |  |  |
| 3rd | Heparin, Thrombin, Menadione. |  |  |
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|  | 4th | Local Anaesthetics-Lignocaine, Procaine, Benzocaine. |  |  |
| **12th(Nov.** | 1st | Analgesics and Anti-pyretics- | 1st (Batch A) |  |
|  |  |  |  | Identify given organic compound |
| 2nd | Morphin, Pethidine | 2nd(Batch B) | Do |
|  **2nd**  **week)** |  |  |
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|  | 3rd |  Codeine, Methadone, Aspirin |  |
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|  | 4th |  Paracetamol, Analgin, Dextropropoxyphene, Pentazocine |  |  |
| **13th(Nov.** | 1st | Non-steroidal anti-inflammatory Agents | 1st (Batch A) | Identify given organic compound |
|  **3rd**  |  |  |  |  |
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| 2nd | Indomethacin, phenylbutazone, Oxyphenbutazone, , Ibuprofen |  2nd(Batch B) | Do |
|  **week)** |  |  |  |  |
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|  |  |  |  |
|  | revision |  |  |
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|  | 3rd |  |  |  |
|  | 4th | revision |  |  |
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| **14th (Nov.** | 1st | Thyroxine and Antithyroids-Thyroxine, Methimazole | 1st (Batch A) | Identify given organic compound |
|  **4th** |  |  |  |  |
| 2nd | Methylthiouracil, Propylthiouracil. |  |  |
|  **week)** | 2nd(Batch B) | Do |
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|  | 3rd |  |
|  | Diagnostic Agents |  |  |
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|  | 4th | Iopanoic Acid, Propyliodone, Sulfobromophthalein. |  |  |
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| **15th(Dec.** | 1st | Sodium indigotindisulfonate, Indigo Carmine | 1st (Batch A) | Identify given organic compound |
|  **1st** |  |  |  |  |
| 2nd | Evans blue, Congo Red, Fluorescein Sodium . | 2nd(Batch B) | Do |
| **week)** |  |  |
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|  | 3rd | Anticonvulsants |  |
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|  | 4th | cardiac glycosides |  |  |
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| **16th (Dec. 2nd week )** | 1st | Antiarrhythmic | 1st (Batch A) | Identify given organic compound |
| 2nd | antihypertensives |  |  |
|  | 2nd(Batch B) | Do |
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| 3rd | Vitamins- fat soluble |  |  |
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|  | 4th | Vitamins- water soluble |  |  |
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| **17th (Jan.****2ndweek )** | 1st | Antibiotics-(Benzyl-Penicillin, Phenoxy methyl Penicillin,  | 1st (Batch A) | Identify given organic compound |
| 2nd | Benzathine Penicillin, Ampicillin, Cloxacillin | 2nd(Batch B) | Do |
| 3rd | Carbenicillin, Gentamicin, Neomycin , Erythromycin |  |  |
| 4th | Tetracycline and its variants |  |  |
| **18th(Jan.****3rd week )** | 1st | Cephalexin, Cephaloridine | 1st (Batch A) | Identify given organic compound |
| 2nd | Cephalothin, Griseofulvin | 2nd(Batch B) | Do |
| 3rd | Chloramphenicol. |  |  |
| 4th | Tranquilizers (Triperidol, Oxypertine) |  |  |
| **19th (Jan.****4thweek )** | 1st | Chlordiazepoxide, Diazepam,  | 1st (Batch A) | Identify given organic compound |
| 2nd | Meprobamate, Lorazepam | 2nd(Batch B) | Do |
| 3rd | Hypoglycemic Agents-Insulin, Chlorpropamide |  |  |
| 4th | Tolbutamide, Glibenclamide, |  |  |
| **20th (feb.****2nd week )** | 1st | Phenformin , Metformin. | 1st (Batch A) | Viva- voice |
| 2nd | Histamine and Antihistaminic Agents-Histamine,. | 2nd(Batch B) | Do |
| 3rd | Diphenhydramine, Promethazine |  |  |
| 4th | Cyproheptadine, Mepyramine |  |  |
| **21th (feb.****3rd week )** | 1st | Pheniramine, Chlorpheniramine. | 1st (Batch A) | Identify given organic compound |
| 2nd | Adrenergic Drugs-Adrenaline, Noradrenaline | 2nd(Batch B) | Do |
| 3rd |  Isoprenaline, Phenylephrine |  |  |
| 4th | Salbutamol, Terbutaline |  |  |
| **22th (feb.****4th week )** | 1st | Ephedrine , Pseudoephedrine. | 1st (Batch A) | Identify given organic compound |
| 2nd | Sulfonamides-Sulfadiazine, Sulfaguanidine | 2nd(Batch B) | Do |
| 3rd | Phthaly sulfathiazole, Succinylsulfathiazole |  |  |
| 4th | Sulfadimethoxine,  |  |  |
| **23th (Mar.****1st week )** | 1st | Sulfamethoxazole, co-trimoxazole | 1st (Batch A) | Synthesize diazoaminobenzene from aniline |
| 2nd | Sulfacetamide | 2nd(Batch B) | Do |
| 3rd | Sulfamethoxypridazine, |  |  |
| 4th | Anti- Neoplastic Drugs- classification  |  |  |
| **24th (Mar.****3rd week )** | 1st | Actinomycins, Azathioprine | 1st (Batch A) | Synthesize benzil from benzoin |
| 2nd | Busulphan, Chlorambucil, Cisplatin | 2nd(Batch B) | Do |
| 3rd | cyclophosphamide, Daunorubicin hydrochloride, |  |  |
| 4th | Fluorouracil, Mercaptopurine, Methotrexate, Mytomycin. |  |  |
| **25th (Apr 1st week)** | 1st | Practical sessional exam |  |  |
|  | 2nd | Practical sessional exam |  |  |
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