**Performa Hindu College of Pharmacy, Sonepat**

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|  | |  | | | |  | | **Lesson Plan** | |  |  | |
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| **Name of the Faculty** | | | | | | **:** | | **SHILPA JAIN** | |  |  | |
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| **Discipline** | |  | | | | **:** | | **D. Pharmacy** | |  |  | |
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| **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** | | | | | | | | | | | |  |
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| **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. | | | | | |  | | |  |
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|  |  | |  | | | | | |  | | | 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, | | | | |  |  | | |  |
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|  |  | | 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)** |
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| 4th | | General Anaesthetics (Methohexital sodium, Thiopental sodium, Trichloroethyelene) | | | | | |  | | |  |
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| **7th (Sept.** | 1st | | Revision | | | | |  | 1st (Batch A) | | | Identification test of calamine |
|  | |  | | | | | |  | | |  |
| 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) | | |  |
|  |  | |  | | | | | |  | | |  |
| **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 |
|  |  | |  | | | | | |  | | |  |
| **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** |  | |  | | | | | |  | | |  |
|  | |  | | | | | |  | | |  |
| 2nd | | Indomethacin, phenylbutazone, Oxyphenbutazone, , Ibuprofen | | | | | | 2nd(Batch B) | | | Do |
| **week)** |  | |  | | | | | |  | | |  |
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|  | | revision | | | | | |  | | |  |
|  |
|  | 3rd | |  | | | | | |  | | |  |
|  | 4th | | revision | | | | | |  | | |  |
|  |  | |  | | | | | |  | | |  |
| **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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