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| Date | Topics to be Covered | Teaching Method |
| 25-07-24  To  11-08-24 | General introduction to pesticides (natural and synthetic), | * Lecture based instruction * Inquiry based learning * Blended learning |
| 13-08-24  To  26-08-24 | General introduction to pesticides (natural and synthetic), benefits and adverse effects, changing concepts of pesticides, structure activity relationship. | * Lecture based instruction * Problem based learning * Blended learning |
| 28-08-24  To  16-09-24 | Synthesis and technical manufacture and uses of representative pesticides in the following classes: Organochlorines (DDT, Gammexene,); Organophosphates (Malathion, Parathion ); | * Lecture based instruction * Inquiry based learning * Problem based learning * Blended learning |
| 18-09-24  To  30-09-24 | Carbamates (Carbofuran and carbaryl); Quinones Chloranil), Anilides (Alachlor and Butachlor). | * Lecture based instruction * learning * Blended learning |
| 3-10-24  To  14-10-24 | A general study including preparation and uses of the following: Hair dye, hair spray, shampoo, suntan lotions, face powder, lipsticks, talcum powder, nail enamel, | * Lecture based instruction * Inquiry based learning * Problem based learning * Blended learning |
| 16-10-24  To  28-10-24 | Drugs & Pharmaceuticals Drug discovery, design and development; Basic Retrosynthetic approach. Synthesis of the representative drugs of the following classes: analgesics agents, antipyretic agents, antiinflammatory agents (Aspirin, paracetamol, lbuprofen); antibiotics (Chloramphenicol); antibacterial and antifungal agents (Sulphonamides; Sulphanethoxazol, Sulphacetamide, Trimethoprim); | * Lecture based instruction * Flipped Classroom * Interactive simulations |
| 30-10-24  To  9-11-24 | antiviral agents (Acyclovir), Central Nervous System agents (Phenobarbital, Diazepam),Cardiovascular (Glyceryl trinitrate), antilaprosy (Dapsone), HIV-AIDS related drugs (AZT- Zidovudine). | * Lecture based instruction * Inquiry based learning |
| 15-11-24 Onwards | Revision for MMT  MMT Tentative | Class Test, Student Presentation, Problem Solving |
| 15-12-24  To  31-12-24 | Fermentation Aerobic and anaerobic fermentation. Production of (i) Ethyl alcohol and citric acid, (ii) Antibiotics; Penicillin, Cephalosporin, Chloromycetin and Streptomycin, (iii) Lysine, Glutamic acid, Vitamin B2, Vitamin B12 and Vitamin C. eucalyptus, rose oil, 2-phenyl ethyl alcohol, Jasmone, Civetone, Muscone. | * Lecture based instruction * Inquiry based learning |
| 4-02-24  To  17-02-24 | Revision and Class Test | Class Test, Student Presentation, Problem Solving |
| 18-02-24  To  29-02-24 | Revision and class test on each section based on HPU exam pattern | Class Test, Student Presentation, Problem Solving |
| March 2024 | Final Practicals |  |