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| Date | Topics to be Covered  | Teaching Method  |
| 25-07-24To11-08-24 | General introduction to pesticides (natural and synthetic), | * Lecture based instruction
* Inquiry based learning
* Blended learning
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| 13-08-24To26-08-24 | 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
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| 28-08-24To16-09-24 | 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
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| 18-09-24To30-09-24 | Carbamates (Carbofuran and carbaryl); Quinones Chloranil), Anilides (Alachlor and Butachlor). | * Lecture based instruction
* learning
* Blended learning
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| 3-10-24To14-10-24 | 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
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| 16-10-24To28-10-24 | 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
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| 30-10-24To9-11-24 | 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
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| 15-11-24 Onwards  | Revision for MMTMMT Tentative | Class Test, Student Presentation, Problem Solving |
| 15-12-24To31-12-24 | 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
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| 4-02-24 To17-02-24 | Revision and Class Test | Class Test, Student Presentation, Problem Solving |
| 18-02-24To29-02-24 | Revision and class test on each section based on HPU exam pattern | Class Test, Student Presentation, Problem Solving |
| March 2024 | Final Practicals |  |