

Name of Faculty: Anil Malik

Discipline: Diploma in Pharmacy

Year: 2nd year

Subject: Hospital and Clinical Pharmacy- Theory

Lesson Plan Duration: Minimum 180 days (1st September to 15th May)

Work load per week: 03

Duration	Topic
1 st sessional 1 st September to 30 November	<ol style="list-style-type: none">1. Hospital Pharmacy2. Different committees in the Hospital3. Supply chain & inventory control4. Compounding in Hospital
2 nd sessional exam 1 st Dec. to 29 th Feb	<ol style="list-style-type: none">1. Drug distribution2. Radio Pharmaceuticals3. Application of computers in Hospital Pharmacy4. Clinical Pharmacy
3 rd sessional 1 st March to 15 th May	<ol style="list-style-type: none">1. Clinical laboratory tests used in the evaluation of disease states2. Poisoning3. Pharmacovigilance4. Medication errors

Name of Faculty: Anil Malik

Discipline: Diploma in Pharmacy

Year: 2nd year

Subject: Hospital and Clinical Pharmacy- Practical

Lesson Plan Duration: Minimum 180 days (1st September to 15th May)

Work load per week: 03

Duration	Topic
1 st sessional 1 st September to 30 November	<ol style="list-style-type: none">1. Systematic approach to drug information queries using primary / secondary / tertiary resources of information (2 cases)2. Interpretation of laboratory reports to optimize the drug therapy in a given clinical case (2 cases)3. Filling up IPC's ADR Reporting Form and perform causality assessments using various scales (2 cases)
2 nd sessional exam 1 st Dec. to 29 th Feb	<ol style="list-style-type: none">1. . Demonstration / simulated / hands-on experience on the identification, types, use / application / administration of<ol style="list-style-type: none">a) Orthopaedic and Surgical Aids such as knee cap, LS belts, abdominal belt, walker, walking sticks, etcb) Different types of bandages such as sterile gauze, cotton, crepe bandages, etc.

	<ul style="list-style-type: none"> c) Needles, syringes, catheters, IV set, urine bag, RYLE's tube, urine pots, colostomy bags, oxygen masks, etc. 2. Case studies on drug-drug interactions (any 2 cases)
3 rd sessional 1 st March to 15 th May	<ul style="list-style-type: none"> 1. Wound dressing (simulated cases and role play – minimum 2 cases) 2. Vaccination and injection techniques (IV, IM, SC) using mannequins 3. Use of Hospital Pharmacy Software and various digital health tools

Name of Faculty: Anil Malik

Discipline: Diploma in Pharmacy

Year: 1st year

Subject: Pharmaceutical Chemistry

Lesson Plan Duration: Minimum 180 days (1st January to 30th June)

Work load per week: 03

Duration	Topic
1 st sessional 1 January to 29 Feb.	<ul style="list-style-type: none"> 1. Introduction to Pharmaceutical chemistry: 2. Volumetric Analysis, Gravimetric Analysis 3. Inorganic Pharmaceuticals- Haemetinics,, Gastrointestinal agents, Topical agents, Dental products, Medicinal Gases 4. Hypoglycaemic agents.
2 nd sessional exam 1 st March to 30 th April	<ul style="list-style-type: none"> 1. Introduction to nomenclature of organic chemical systems with particular reference to heterocyclic compounds containing up to Three rings 2. Drugs Acting on Central Nervous System- Anaesthetics, Sedatives, Antipsychotics, , Anticonvulsants, antidepressants. 3. Diuretics 4. Drugs Acting on Autonomic Nervous System
3 rd sessional 1 st May to 30 th June	<ul style="list-style-type: none"> 1. Drugs Acting on Cardiovascular System 2. Analgesic And Anti-Inflammatory Agents 3. Anti-Infective Agents 4. Antibiotics 5. Anti-neoplastic agents

Name of Faculty: Anil Malik

Discipline: Diploma in Pharmacy

Year: 1st year

Subject: Pharmaceutical Chemistry - Practical

Lesson Plan Duration: Minimum 180 days (1st January to 30th June)

Work load per week: 03

Duration	Topic
1 st sessional 1 January to 29 Feb.	<ol style="list-style-type: none">1. Limit test for Chlorides; sulphate; Iron; heavy metals2. Identification tests for Anions and Cations as per Indian Pharmacopoeia3. Fundamentals of Volumetric analysis: Preparation of standard solution and standardization of Sodium Hydroxide, Potassium Permanganate
2 nd sessional exam 1 st March to 30 th April	<ol style="list-style-type: none">1. Assay of the following compounds<ul style="list-style-type: none">● Ferrous sulphate- by redox titration● Calcium gluconate-by complexometric● Sodium chloride-by Modified Volhard's method● Ascorbic acid by iodometry● Ibuprofen by alkalimetry2. fundamentals of preparative organic chemistry Determination of Melting point and boiling point of organic compounds
3 rd sessional 1 st May to 30 th June	<ol style="list-style-type: none">1. Preparation of organic compounds<ul style="list-style-type: none">☐ Benzoic acid from Benzamide☐ Picric acid from Phenol2. Identification and test for purity of pharmaceuticals Aspirin, Caffeine, Paracetamol, Sulfanilamide3. Systematic Qualitative analysis experiments

Name of Faculty: Dr. Arun Kumar Gupta

Discipline: Diploma in Pharmacy

Year: 2nd year

Subject: Biochemistry

Lesson Plan Duration: Minimum 180 days (1st January to 30th June)

Work load per week: 03

Duration	Topic
1 st sessional 1 st September to 30 November	<ol style="list-style-type: none">1. Introduction to biochemistry2. Carbohydrates3. Protein4. Lipids
2 nd sessional exam 1 st Dec. to 29 th Feb	<ol style="list-style-type: none">1. Nucleic acids2. Enzymes3. Vitamins4. Minerals

3 rd sessional 1 st March to 15 th May	<ol style="list-style-type: none"> 1. Metabolism 2. Water and electrolytes 3. Introduction to Biotechnology 4. Organ function tests 5. Introduction to Pathology of Blood and Urine
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Name of Faculty: Dr. Arun Kumar Gupta

Discipline: Diploma in Pharmacy

Year: 2nd year

Subject: Biochemistry - Practical

Lesson Plan Duration: Minimum 180 days (1st January to 30th June)

Work load per week: 03

Duration	Topic
1 st sessional 1 st September to 30 November	<ol style="list-style-type: none"> 1. Qualitative analysis of carbohydrates 2. Qualitative analysis of Proteins and amino acids 3. Qualitative analysis of Lipids
2 nd sessional exam 1 st Dec. to 29 th Feb	<ol style="list-style-type: none"> 1. Qualitative analysis of urine for normal and abnormal constituents 2. Determination of constituents of urine (glucose, creatinine, chlorides)
3 rd sessional 1 st March to 15 th May	<ol style="list-style-type: none"> 1. Determination of constituents of blood/serum (simulated) (Creatine, glucose, cholesterol, Calcium, Urea, SGOT/SGPT) 2. Study the hydrolysis of starch from acid and salivary amylase enzyme