

Name of Faculty: Ms. Kavita Kanger  
Discipline: D. Pharmacy 1st Year  
Subject : Social pharmacy  
Lesson Plan Duration: September 2026 to june 2027

| week | Theory      |                                            | Practical |                                         |
|------|-------------|--------------------------------------------|-----------|-----------------------------------------|
|      | Lecture Day |                                            | Pr DAY    | Topic                                   |
| 1st  | 1           | Introduction to Social Pharmacy            | 1         | Role and responsibility of pharmacist   |
|      | 2           | Scope of social Pharmacy                   |           |                                         |
|      | 3           | Physical Mental Social Spiritual Health    |           |                                         |
| 2nd  | 4           | Determinants & Indications of Health       | 2         | Write down familyplanning devices       |
|      | 5           | Disease & Disease Prevention concepts      |           |                                         |
|      | 6           | Various Component of Health                |           |                                         |
| 3rd  | 7           | Food and its Classification                | 3         | National immunization schdedule         |
|      | 8           | Disease &Preventions: Protien Deficiency   |           |                                         |
|      | 9           | Carbohydrate deficiency                    |           |                                         |
| 4th  | 10          | Minerals & Vitamins                        | 4         | Role and responsibility of pharmacist   |
|      | 11          | Demography cycle and Frtility              |           |                                         |
|      | 12          | Family planning, Population Policy         |           |                                         |
| 5th  | 13          | Demography and                             | 5         | Reproductive & child health program     |
|      | 14          | Contraceptive Methods:                     |           |                                         |
| 6th  | 15          | Hormonal Contraceptive Method              | 6         | To discuss personal hygiene             |
|      | 16          | Permanent Contraceptive Method             |           |                                         |
|      | 17          | First-Aid : Poisoning and Burn             |           |                                         |
| 7th  | 18          | First-Aid Heart Lungs resuscitation        | 7         | To discuss hand washing technique       |
|      | 19          | Element of minor surgery and dressing      |           |                                         |
| 8th  | 20          | Water pollution                            | 8         | To discuss cough & sneeze etiqueete     |
|      | 21          | Water purification                         |           |                                         |
|      | 22          | Water purification                         |           |                                         |
| 9th  | 23          | Light Noise Pollution                      | 9         | To discuss menstrual hygiene            |
|      | 24          | Solid Waste Disposal                       |           |                                         |
|      | 25          | Tentative session exam                     |           |                                         |
| 10th | 26          | Tentative session exam                     | 10        | Emergency treatment of snake bite       |
|      | 27          | Tentative session exam                     |           |                                         |
|      | 28          | Medical Entomology                         |           |                                         |
| 11th | 29          | Arthropod born disease and control         | 11        | First aid treatment of fracture         |
| 12th | 30          | Isolation and Staining Techniques          | 12        | First aid treatment of burn and scolds  |
|      | 31          | Communicable disease & Transmission        |           |                                         |
|      | 32          | Respiratory Tract Infections: Transmission |           |                                         |
| 13th | 33          | Intestinal infections                      | 13        | nergency treatment of insectsidess pois |
|      | 34          | Arthropod infections                       |           |                                         |
|      | 35          | Surface infections                         |           |                                         |
| 14th | 36          | Sexually transmitted diseases              | 14        | First aid treatment of CPR              |
|      | 37          | Diabetes : Cause, Prevention and Control   |           |                                         |
|      | 38          | National health policy                     |           |                                         |

|      |    |                                        |    |                                           |
|------|----|----------------------------------------|----|-------------------------------------------|
| 15th | 39 | National health mission                | 15 | Discuss about electric shock              |
|      | 40 | Cardiovascular diseases                |    |                                           |
|      | 41 | Epidemiology: Scope and methods uses   |    |                                           |
| 16th | 42 | Tentative session exam                 | 16 | Different steps of CPR                    |
|      | 43 | Tentative session exam                 |    |                                           |
|      | 44 | Tentative session exam                 |    |                                           |
| 17th | 45 | Dynamics Disease Transmissions         | 17 | Mouth to mouth resuscitation              |
|      | 46 | Methods of Transmissions               |    |                                           |
|      | 47 | Types of Immunity                      |    |                                           |
| 18th | 48 | Introduction to pharmacoconomics       | 18 | First aid treatment of heart diseases     |
|      | 49 | Introduction to millennium development |    |                                           |
|      | 50 | Sustainable development goals          |    |                                           |
| 19th | 51 | Phychotropics pharmacy                 | 19 | To study drug food interactions           |
|      | 52 | Drug of misuse and abuse               |    |                                           |
|      | 53 | Psychotropics narcotics                |    |                                           |
| 20th | 54 | productivity                           | 20 | To study adultertion food                 |
|      | 55 | Suicidal behaviours                    |    |                                           |
|      | 56 | Basics of nutrition                    |    |                                           |
| 21th | 57 | Importance of water and fibres         | 21 | To study about the surface infection      |
|      | 58 | Balanced diet                          |    |                                           |
|      | 59 | Ill effects of junk food               |    |                                           |
| 22th | 60 | Tentative session exam                 | 22 | study about the sexually transmitted dis  |
|      | 61 | Tentative session exam                 |    |                                           |
|      | 62 | Tentative session exam                 |    |                                           |
| 23th | 63 | Nutritive values of various food       | 23 | To discuss about arm left chest pressure  |
|      | 64 | Fortification of food                  |    |                                           |
|      | 65 | Adulteration of food                   |    |                                           |
| 24th | 66 | Effect of artificial ripening          | 24 | To study about arthropod born infection   |
|      | 67 | Pesticides                             |    |                                           |
|      | 68 | Modified food                          |    |                                           |
| 25th | 69 | Dietary supplement                     | 25 | o study about respiratory tract infection |
|      | 70 | Nutraceuticals                         |    |                                           |
|      | 71 | Supplement inductions                  |    |                                           |

## LESSON PLAN

Name of Faculty: Mrs.Kavita Banger  
 Discipline: D. Pharmacy 1st Year  
 Subject: Pharmacognosy  
 Lesson Plan Duration: September 2026 to june 2027

| week | Theory      |                                       | Practical |                                                             |
|------|-------------|---------------------------------------|-----------|-------------------------------------------------------------|
|      | Lecture Day |                                       | Pr DAY    | Topic                                                       |
| 1st  | 1           | Indtroduction of subject              | 1         | To perform the morphological study of coriander             |
|      | 2           | Vitamins                              |           |                                                             |
|      | 3           | Antimalerial                          |           |                                                             |
| 2nd  | 4           | Antileprotics                         | 2         | To perform the morphological study of fennel                |
|      | 5           | Antiseptics & disinfectant            |           |                                                             |
|      | 6           | Astringent                            |           |                                                             |
| 3rd  | 7           | Antihypertensive                      | 3         | To perform the morphological study of the cardamom          |
|      | 8           | Antitumor-Vinea                       |           |                                                             |
|      | 9           | Crude drugs cultivation collection    |           |                                                             |
| 4th  | 10          | Crude drugs prepration for market     | 4         | To study the morphological study of ginger                  |
|      | 11          | Antitussive                           |           |                                                             |
|      | 12          | Classification of crude drugs         |           |                                                             |
| 5th  | 13          | Perfume & flavouring agent            | 5         | To perform the morphological study of nutmug                |
|      | 14          | Enzymes & classification              |           |                                                             |
|      | 15          | Yeast, Papain, Diastase               |           |                                                             |
| 6th  | 16          | Alkaloids, carbohydrates              | 6         | To perform the morphological study of black pepper          |
|      | 17          | Alkaloids distribution test           |           |                                                             |
|      | 18          | Glycoside their test properties       |           |                                                             |
| 7th  | 19          | test of antitussive, antitumors       | 7         | To perform the morphological study of cinnamon              |
|      | 20          | Revision of 1st sessional syllabous   |           |                                                             |
|      | 21          | Revision & test of 1st sessional      |           |                                                             |
| 8th  | 22          | Prepration of syllabous for sessional | 8         | To perform the morphological study of clove                 |
|      | 23          | Kaolin, pectin                        |           |                                                             |
|      | 24          | Introduction of Umbeliferous drugs    |           |                                                             |
| 9th  | 25          | Cardamom, fennel                      | 9         | To study the organo leptic character and source of vitamins |
|      | 26          | Coriander, clove                      |           |                                                             |
|      | 27          | Nutmeg, asafoetida                    |           |                                                             |
| 10th | 28          | Tentative session exam                | 10        | To perform the morphilological study of rauwolfia           |
|      | 29          | Tentative session exam                |           |                                                             |
|      | 30          | Tentative session exam                |           |                                                             |
| 11th | 31          | Ginger, black pepper                  | 11        | To perform the morphilological study of ipecacunaha         |
|      | 32          | Ashwagandha                           |           |                                                             |
|      | 33          | Ephedra, nux vomica                   |           |                                                             |
| 12th | 34          | Cannalbis, aconite                    | 12        | To the morphological study of benzoin, myrrh                |
|      | 35          | Test of drugs acting of CNS           |           |                                                             |
|      | 36          | Hysocyamus & datura                   |           |                                                             |
| 13th | 37          | Resins & identification test          | 13        | To perform the physical & chemical test of asafoetida       |
|      | 38          | Diuretics gokhru, punarnava           |           |                                                             |
|      | 39          | Antidiabetic, Gymnema, pterocarpu     |           |                                                             |
| 14th | 40          | Miscellaneous drugs-liquorice         | 14        | To study the character of diff. fibers from animals         |
|      | 41          | Garlic, picrrorhiza                   |           |                                                             |
|      | 42          | Satavri, linseed                      |           |                                                             |
| 15th | 43          | Test of liquorice, garlic             | 15        | To study the enzyme                                         |
|      | 44          | Test: linseed, shatavri, picrrhiza    |           |                                                             |
|      | 45          | Satavri, linseed, shankpushpi         |           |                                                             |
| 16th | 46          | Tentative session exam                | 16        | To study the morphological study of senna & isaphagula      |
|      | 47          | Tentative session exam                |           |                                                             |
|      | 48          | Tentative session exam                |           |                                                             |

|      |    |                                       |    |                                                                 |
|------|----|---------------------------------------|----|-----------------------------------------------------------------|
| 17th | 49 | Opium & cultivation and collection    | 17 | To perform the physical & chemical test of benzoin              |
|      | 50 | Opium & cultivation and collection    |    |                                                                 |
|      | 51 | Test of opium                         |    |                                                                 |
| 18th | 52 | Drug adultration                      | 18 | The morphological study of cinchona                             |
|      | 53 | Types of adultration                  |    |                                                                 |
|      | 54 | Drug evaluation                       |    |                                                                 |
| 19th | 55 | Biological evaluation                 | 19 | The morphological study of antiseptic & disinfectant            |
|      | 56 | Drug technical product                |    |                                                                 |
|      | 57 | Cardiotonic: arjuna                   |    |                                                                 |
| 20th | 58 | Digitalis                             | 20 | The study of laxative Aloe, caster oil                          |
|      | 59 | Anti-rheumatics                       |    |                                                                 |
|      | 60 | Oxytocic                              |    |                                                                 |
| 21th | 61 | Lyfe cycle of ergot                   | 21 | Morphological study of squills & galls                          |
|      | 62 | Pharmaceutical aids                   |    |                                                                 |
|      | 63 | Pharmaceutical aids from plants       |    |                                                                 |
| 22th | 64 | Tentative session exam                | 22 | Morphological study of character of pterocarpous, gymnema       |
|      | 65 | Tentative session exam                |    |                                                                 |
|      | 66 | Tentative session exam                |    |                                                                 |
| 23th | 67 | Pharmaceutcal aids from animals       | 23 | To study of diuretics                                           |
|      | 68 | Starch                                |    |                                                                 |
|      | 69 | Arachis oil                           |    |                                                                 |
| 24th | 70 | Olive oil, lanolin                    | 24 | To perform the identification test for alkaloids or glycoside   |
|      | 71 | Bees wax, acacia, tragacanth          |    |                                                                 |
|      | 72 | Herbal cosmetics                      |    |                                                                 |
| 25th | 73 | Phytochemical investigation of drug   | 25 | To perform the identification test of volatile oil              |
|      | 74 | Neutraceutical, probiotics, carotenc  |    |                                                                 |
|      | 75 | Introduction of herbal formulation    |    |                                                                 |
| 26th | 76 | Gelatin                               | 26 | To perform the morphological study of pharmaceutical aids       |
|      | 77 | Fibers, classification                |    |                                                                 |
|      | 78 | Test of fibers                        |    |                                                                 |
| 27th | 79 | Absorbent cotton                      | 27 | To perform the morphological study of agar, guar gum , gelatine |
|      | 80 | Alkaloids:source, test extrection, us |    |                                                                 |
|      | 81 | Glycoside:source, test extraction, us |    |                                                                 |

LESSON PLAN

Name of Faculty: Ms.Navneet Kaur

Discipline: D. Pharmacy 1<sup>st</sup> Year

Subject: Pharmaceutics

Lesson Plan Durati September 2026 to june 2027

| week | Theory      |                                             | Practical |                                    |
|------|-------------|---------------------------------------------|-----------|------------------------------------|
|      | Lecture Day |                                             | Pr DAY    | Topic                              |
| 1st  | 1st         | Introduction different dosaage forms        | 1         | To prepare simple syrup IP         |
|      | 2nd         | Classification and definitions              |           |                                    |
|      | 3rd         | New drug delivery systems                   |           |                                    |
| 2nd  | 4th         | Introducation to Pharmcopeias               | 2         | To prepare lugols solution         |
|      | 5th         | India Pharmacopoeia                         |           |                                    |
|      | 6th         | Metrology, weights and measures             |           |                                    |
| 3rd  | 7th         | Calculation: Percentage calculation         | 3         | To prepare dusting powder          |
|      | 8th         | Alligation method                           |           |                                    |
|      | 9th         | Isotonic solutions : adjustment theory      |           |                                    |
| 4th  | 10th        | Isotonic Solutions : Calculations           | 4         | To prepare boric acid suppostories |
|      | 11th        | Packaging Qualities, Types                  |           |                                    |
|      | 12th        | Glass Containers Types , Merits demerits    |           |                                    |
| 5th  | 13th        | plastic Container: Types, merits demerits   | 5         | To prepare NAHCO3 granules         |
|      | 14th        | Metals , Papers and Board Containers        |           |                                    |
|      | 15th        | Closures: Types & merterials                |           |                                    |
| 6th  | 16th        | Aerosol Packing                             | 6         | To prepare vanishing cream         |
|      | 17th        | Modern Unit Dosage Form                     |           |                                    |
|      | 18th        | Size Reduction: Importance , Factors        |           |                                    |
| 7th  | 19th        | Hammer mill, Disintegrator                  | 7         | To prepare castor oil emulsion     |
|      | 20th        | Ball mill & Fluid energy mill,              |           |                                    |
|      | 21st        | Standard : Sieves & Office Powders          |           |                                    |
| 8th  | 22th        | Separation by sifting and Sedimentation     | 8         | To prepare cold cream              |
|      | 23th        | cyclone separator Construction Working      |           |                                    |
|      | 24th        | Mixing Definition, Objectives, Types        |           |                                    |
| 9th  | 25th        | Agitated Powder & Double Cone Mixer         | 9         | To prepare poultice                |
|      | 26th        | Liquid Mixing: Propeller mixer              |           |                                    |
|      | 27th        | Triple Roller mill, Planetary mixer         |           |                                    |
| 10th | 28th        | Tentative session exam                      | 10        | To prepare boric acid eye lotion   |
|      | 29th        | Hand, Silverson Colloidal homogenizer       |           |                                    |
|      | 30th        | Clarification & Filtration, theory, Factors |           |                                    |
| 11th | 31th        | Characteristics/ Selection Filter aids      | 11        | To prepare weak iodine solution    |
|      | 32th        | Filter press : Working, Merits & Demerits   |           |                                    |
|      | 33th        | Sintered filters, Filter candle Metafilter  |           |                                    |
|      | 34th        | Extraction, Tinctures, Infusion , decoction |           |                                    |

|      |      |                                             |    |                                       |
|------|------|---------------------------------------------|----|---------------------------------------|
| 12th | 35th | Simple Maceration Processes                 | 12 | To prepare insuffltion                |
|      | 36th | Maceration : Concentrated preparation       |    |                                       |
| 13th | 37th | Continuous hot percolation                  | 13 | To prepare simple ointment            |
|      | 38th | Basic structure of manufacturing plant      |    |                                       |
|      | 39th | Definition and concept of quality control   |    |                                       |
| 14th | 40th | Definition and concept of quality assurance | 14 | To prepare liquid paraffin emulsion   |
|      | 41th | Current good manufacturing practice         |    |                                       |
|      | 42th | Introduction to concept of calibration      |    |                                       |
| 15th | 43th | Introduction to concept of validation       | 15 | To prepare draught                    |
|      | 44th | Introduction to Liquid oral preparation     |    |                                       |
|      | 45th | Solution syrup elixir emulsion              |    |                                       |
| 16th | 46th | Tentative session exam                      | 16 | To prepare chloroform wate IP         |
|      | 47th | Tentative session exam                      |    |                                       |
|      | 48th | Tentative session exam                      |    |                                       |
| 17th | 49th | Suspension dry powder for reconstitution    | 17 | To prepar chloro hydrate suppostories |
|      | 50th | Introduction to topical preparations: gels  |    |                                       |
|      | 51th | Ointment cream paste lotion and liniments   |    |                                       |
| 18th | 52th | Powder and granules insufflations           | 18 | To prepare chlorophenolic capsule     |
|      | 53th | Nasal preparations                          |    |                                       |
|      | 54th | Ear preparations                            |    |                                       |
| 19th | 55th | Sterile formulations: injectables           | 19 | To prepare and submit silphur ointme  |
|      | 56th | Eye drops and eye ointments                 |    |                                       |
|      | 57th | Drying process definition and objective     |    |                                       |
| 20th | 58th | Drying process Theory & Application         | 20 | To prepar and submit zinc ointment    |
|      | 59th | Fluidized bed dryer, vacuum dryer           |    |                                       |
|      | 60th | Freeze drier                                |    |                                       |
| 21th | 61th | compressed tablets: Types                   | 21 | To prepare 100g emulsifying ointment  |
|      | 62th | Excipients: compressed tablets              |    |                                       |
|      | 63th | Excipients: compressed tablets              |    |                                       |
| 22th | 64th | Tentative session exam                      | 21 | To prepare and submit suppostories    |
|      | 65th | Tentative session exam                      |    |                                       |
|      | 66th | Tentative session exam                      |    |                                       |
| 23th | 67th | Compressed tablet production process        | 23 | To prepare extrose injecion I.P       |
|      | 68th | Compressed tablet production process        |    |                                       |
|      | 69th | Defects of tablets                          |    |                                       |
| 24th | 70th | Defects of tablets                          | 24 | To prepare an submit lemon mixture    |
|      | 71th | Evaluation of tablets                       |    |                                       |
|      | 72th | Evaluation of tablets                       |    |                                       |
| 25th | 73th | Introduction and types of capsules          | 25 | To prepare and submit inhalation      |
|      | 74th | Filling of soft gelatin of capsules         |    |                                       |
|      | 75th | Capsules: Handling, storage, application    |    |                                       |

| LESSON PLAN          |             |                                         |           |                                                |
|----------------------|-------------|-----------------------------------------|-----------|------------------------------------------------|
| Name of Faculty:     |             | Mrs. Preeti Bansal                      |           |                                                |
| Discipline:          |             | D. Pharmacy 1st Year                    |           |                                                |
| Subject:             |             | Human Anatomy & Physiology              |           |                                                |
| Lesson Plan Duration |             | September 2026 to june 2027             |           |                                                |
|                      |             |                                         |           |                                                |
| week                 | Theory      |                                         | Practical |                                                |
|                      | Lecture Day |                                         | Pr DAY    | Topic                                          |
| 1st                  | 1           | Introduction Human AnatomyPhysiology    | 1         | To study about the animal cell & parts         |
|                      | 2           | Anatomical Position of Body             |           |                                                |
|                      | 3           | Animal Cell                             |           |                                                |
| 2nd                  | 4           | Animal Cell                             | 2         | To study about sample of blood                 |
|                      | 5           | Animal Tissues : Epithelial             |           |                                                |
|                      | 6           | Glandular Tissues                       |           |                                                |
| 3rd                  | 7           | Muscular Tissues                        | 3         | To study about the parts of upper limbs        |
|                      | 8           | Connective tissues                      |           |                                                |
|                      | 9           | Skeletal tissues                        |           |                                                |
| 4th                  | 10          | Nervous tissues                         | 4         | To study about the parts of lower limbs        |
|                      | 11          | Blood Introduction and Function         |           |                                                |
|                      | 12          | Composition of blood                    |           |                                                |
| 5th                  | 13          | Blood Cell formation                    | 5         | To study about the structure of human skull    |
|                      | 14          | Blood coagulation                       |           |                                                |
|                      | 15          | Blood groups ABO System & Rh Factors    |           |                                                |
| 6th                  | 16          | Disorders of blood                      | 6         | To study about epithellium tissue              |
|                      | 17          | Lymph vessels & Lymph node              |           |                                                |
|                      | 18          | Spleen, Thymus, Reticuloendothelial     |           |                                                |
| 7th                  | 19          | Structure of heart                      | 7         | To study about blood group                     |
|                      | 20          | Working of Heart and Cardiac cycle      |           |                                                |
|                      | 21          | Blood pressure and ECG                  |           |                                                |
| 8th                  | 22          | Arterial system                         | 8         | To study about function of skin                |
|                      | 23          | Venous System                           |           |                                                |
|                      | 24          | Disorders of Cardiac Vascular system    |           |                                                |
| 9th                  | 25          | Disorders of circulatory system         | 9         | To study about structure & function of heart   |
|                      | 26          | Respiratory Organs Structure            |           |                                                |
|                      | 27          | Tentative session exam                  |           |                                                |
| 10th                 | 28          | Tentative session exam                  | 10        | To study about nervous tissue                  |
|                      | 29          | Tentative session exam                  |           |                                                |
|                      | 30          | Mechanism of Respiration                |           |                                                |
| 11th                 | 31          | Physiology of Respiration               | 11        | To study about the nervous system              |
|                      | 32          | Disorders of Respiratory System         |           |                                                |
|                      | 33          | Urinary System: Structure               |           |                                                |
| 12th                 | 34          | Urinary System: Physiology of Excretion | 12        | To study about structure & function of humancy |
|                      | 35          | Micturition, Urinary Disorders          |           |                                                |
|                      | 36          | Urinary System: disorders               |           |                                                |
| 13th                 | 37          | Skeletal Muscle structure               | 13        | To study about human ear                       |
|                      | 38          | Muscle contraction Mechnism             |           |                                                |
|                      | 39          | Skeletal muscle disorders               |           |                                                |
| 14th                 | 40          | CNS Introduction & Structure of Brain   | 14        | To study about digestive system                |
|                      | 41          | Function of brain parts                 |           |                                                |
|                      | 42          | Spinal cord, cranial and spinal nerves  |           |                                                |
| 15th                 | 43          | Autonomic nervous system: Introduction  | 15        | To study about male reproductive system        |
|                      | 44          | Sympathetic nervous system              |           |                                                |
|                      | 45          | Parasympathetic nervous system          |           |                                                |
|                      | 46          | Tentative session exam                  |           | To study about female                          |
|                      | 47          | Tentative session exam                  |           |                                                |

|      |    |                                           |    |                                             |
|------|----|-------------------------------------------|----|---------------------------------------------|
| 16th | 48 | Tentative session exam                    | 16 | reproductive system                         |
| 17th | 49 | Reflex Action                             | 17 | To study about human resperatory system     |
|      | 50 | Transmission of nerve impulse             |    |                                             |
|      | 51 | Nervous system disorders                  |    |                                             |
| 18th | 52 | Skeletal System, Skull structure Function | 18 | To study about endocrine system             |
|      | 53 | Vertebral Column structure and function   |    |                                             |
|      | 54 | Bone Upper & Lower limbs                  |    |                                             |
| 19th | 55 | Joints                                    | 19 | To study about cardiovascular system        |
|      | 56 | Disorder of Bones and Joints              |    |                                             |
|      | 57 | Introduction Human Sense organ & Nose     |    |                                             |
| 20th | 58 | Skin structure and function               | 20 | To study about urinary system               |
|      | 59 | Eyes structure & Function                 |    |                                             |
|      | 60 | Eyes disorders                            |    |                                             |
| 21th | 61 | Ear structure &Function                   | 21 | To study about WBC count of blood           |
|      | 62 | Tongue & Disorders of ear                 |    |                                             |
|      | 63 | Digestion: Alimentary canal structure     |    |                                             |
| 22th | 64 | Tentative session exam                    | 22 | To study about ESR                          |
|      | 65 | Tentative session exam                    |    |                                             |
|      | 66 | Digestion: Salivary gland & Pancreas      |    |                                             |
| 23th | 67 | Liver structure and function              | 23 | To study about haemoglobin content of blood |
|      | 68 | Function of GIT & Digestion of food       |    |                                             |
|      | 69 | Absorption and assimilation               |    |                                             |
| 24th | 70 | Absorption and assimilation               | 24 | To study about bleeding time & cloting time |
|      | 71 | Alimentary canal disorders                |    |                                             |
|      | 72 | Introduction: endocrine gland&Hormone     |    |                                             |
| 25th | 73 | Hypothalamus & Pituitary Gland            | 25 | To study about recording pulse oxygen       |
|      | 74 | Thyroid gland structure and function      |    |                                             |
|      | 75 | Disorders of thyroid gland                |    |                                             |
|      |    |                                           |    |                                             |

| LESSON PLAN           |             |                                          |        |                                                                                                  |
|-----------------------|-------------|------------------------------------------|--------|--------------------------------------------------------------------------------------------------|
| Name of Faculty:      |             | Mr. Shubham Saini                        |        |                                                                                                  |
| Discipline:           |             | D. Pharmacy 1st Year                     |        |                                                                                                  |
| Subject:              |             | Pharmaceutical Chemistry                 |        |                                                                                                  |
| Lesson Plan Duration: |             | September 2026 to june 2027              |        |                                                                                                  |
|                       |             | Theory                                   |        | Practical                                                                                        |
| Week                  | Lecture day |                                          | Pr day |                                                                                                  |
| 1st                   | 1           | Introduction to pharmaceutical chemistry | 1      | To study the different laboratory equipments and general glasswares used in chemistry practical. |
|                       | 2           | Scopeand objectives                      |        |                                                                                                  |
|                       | 3           | Sources and types of error               |        |                                                                                                  |
| 2nd                   | 4           | Sources and types of error               | 2      | To study the identification test for Ammonium chloride.                                          |
|                       | 5           | Impurities in pharmaceuticals            |        |                                                                                                  |
|                       | 6           | Impurities in                            |        |                                                                                                  |
|                       | 7           | pharmaceuticals                          |        |                                                                                                  |
| 3rd                   | 8           | Impurities in pharmaceuticals            | 3      | To perform the identification test for given sample of sodium chloride.                          |
|                       | 9           | Impurities in                            |        |                                                                                                  |
|                       | 10          | pharmaceuticals                          |        |                                                                                                  |
|                       | 11          | Volumetric analysis                      |        |                                                                                                  |
| 4th                   | 12          | Volumetric analysis                      | 4      | To perform and report identification test of givrn sample of NaHCO3 IP.                          |
|                       | 13          | Volumetric analysis                      |        |                                                                                                  |
|                       | 14          | Volumetric analysis                      |        |                                                                                                  |
| 5th                   | 15          | Gravimetric analysis- principle          | 5      | To perform the identification tests for purity of caffeine.                                      |
|                       | 16          | Method of gravimetric analysis           |        |                                                                                                  |
|                       | 17          | Inorganic pharmaceuticals- haematinics   |        |                                                                                                  |
| 6th                   | 18          | Haematinics                              | 6      | To perform the limit test of chloride is the given sample of sodium bicarbonate.                 |
|                       | 19          | Gastrointestinal agents                  |        |                                                                                                  |
|                       | 20          | Gastrointestinal agents                  |        |                                                                                                  |
| 7th                   | 21          | Topical agents                           | 7      | To perform the limit test of chloride is given sample of dextrose.                               |
|                       | 22          | Dental products                          |        |                                                                                                  |
|                       | 23          | Medicinal gases                          |        |                                                                                                  |
| 8th                   | 24          | Introduction to nomenclature             | 8      | To identify given sample of paracetamol.                                                         |
|                       | 25          | Introduction to nomenclature             |        |                                                                                                  |
|                       | 26          | Anaesthetics                             |        |                                                                                                  |
| 9th                   | 27          | Sedative and hypnotics                   | 9      | To perform the limit test for sulphate in the given sample of borax.                             |
|                       | 28          | Antipsychotics                           |        |                                                                                                  |
|                       | 29          | Antipsychotics                           |        |                                                                                                  |

|      |    |                                       |    |                                                                                    |
|------|----|---------------------------------------|----|------------------------------------------------------------------------------------|
| 10th | 30 | Sessional                             | 10 | To perform the limit test for sulphate in the given sample of sodium bi carbonate. |
|      | 31 | Anticonvulsants                       |    |                                                                                    |
|      | 32 | Anticonvulsants                       |    |                                                                                    |
| 11th | 33 | Antidepressants                       | 11 | To determine boiling point the given liquid.                                       |
|      | 34 | Antidepressants                       |    |                                                                                    |
|      | 35 | Sympathomimetic drugs                 |    |                                                                                    |
| 12th | 36 | Sympathomimetic drugs                 | 12 | To carry out the limit test of iron in given sample of borax.                      |
|      | 37 | Adrenergic antagonists                |    |                                                                                    |
|      | 38 | Adrenergic antagonists                |    |                                                                                    |
| 13th | 39 | Cholinergic drugs                     | 13 | To perform the limit test for heavy metal in the given sample of borax.            |
|      | 40 | Cholinergic drugs                     |    |                                                                                    |
|      | 41 | Cholinergic drugs                     |    |                                                                                    |
| 14th | 42 | Cholinergic blocking agents           | 14 | To prepare approximately 0.1N HCL acid and standardized it.                        |
|      | 43 | Cholinergic blocking agents           |    |                                                                                    |
|      | 44 | Antiarrhythmic drugs                  |    |                                                                                    |
| 15th | 45 | Antiarrhythmic drugs                  | 15 | To carry out the assay of given in ferrous sulphate.                               |
|      | 46 | Antihypertensive drugs                |    |                                                                                    |
|      | 47 | Antihypertensive drugs                |    |                                                                                    |
| 16th | 48 | Revision                              | 16 | To perform assay of hydrogen peroxide solution                                     |
|      | 49 | Test                                  |    |                                                                                    |
|      | 50 | Anti-anginal agents                   |    |                                                                                    |
| 17th | 51 | Diuretics                             | 17 | To perform the assay of iodine                                                     |
|      | 52 | Sessional                             |    |                                                                                    |
|      | 53 | Diuretics                             |    |                                                                                    |
| 18th | 54 | Hypoglycemic agents                   | 18 | To perform the assay of calcium gluconate.                                         |
|      | 55 | Hypoglycemic agents                   |    |                                                                                    |
|      | 56 | Hypoglycemic agents                   |    |                                                                                    |
| 19th | 57 | Analgesics, anti- inflammatory agents | 19 | To perform the identification test for the given sample of iodine.                 |
|      | 58 | NSAIDs                                |    |                                                                                    |
|      | 59 | Anti-fungal agents                    |    |                                                                                    |
| 20th | 60 | Revision                              | 20 | To perform the identification test for the given sample of barium sulphate.        |
|      | 61 | Test                                  |    |                                                                                    |
|      | 62 | Urinary tract anti-infective agents   |    |                                                                                    |
| 21st | 63 | Anti-tubercular drugs                 | 21 | To perform the assay of magnesium sulphate.                                        |
|      | 6  | Antiviral agents                      |    |                                                                                    |
|      | 65 | Anti-malarial drugs                   |    |                                                                                    |
| 22nd | 66 | Anti-malarial drugs                   | 22 | To perform the limit test for sulphate in the given sample of tab water.           |
|      | 67 | Sulphonamides                         |    |                                                                                    |
|      | 68 | Antibiotics                           |    |                                                                                    |
| 23rd | 69 | Tetracyclines                         | 23 | To perform the limit test for sulphate in the given sample of sodium citrate       |
|      | 70 | Revision                              |    |                                                                                    |

|      |    |                        |    |                                                                                |
|------|----|------------------------|----|--------------------------------------------------------------------------------|
|      | 71 | Macrolides             |    |                                                                                |
| 24th | 72 | Miscellaneous          | 24 | To perform the limit test for chloride in the given sample of tab water.       |
|      | 73 | Anti-neoplastic agents |    |                                                                                |
|      | 74 | Anti-neoplastic agents |    |                                                                                |
| 25th | 75 | Anti-neoplastic agents | 25 | To perform the limit test for chloride in the given sample of sodium hydroxide |