| | JANTA COLLEGE OF PHARMACY,BUTANA(SONEPAT) | | | | | | | | |
|--|---|---|---------------|--|--|--|--|--|--|
| | LESSON PLAN | | | | | | | | |
| Name of th | Vame of the Faculty : Mrs. PARMILA DEVI | | | | | | | | |
| Discipline : DMLT | | | | | | | | | |
| Semester | Semester : First | | | | | | | | |
| Subject | Subject : INTRODUCTION TO HEMATOLOGY -I | | | | | | | | |
| Lesson Plan Duration : 16 weeks(from 04 August 2025 to 26 November 2025)(According to Syllabus Scheme) | | | | | | | | | |
| Work load(Lecture/Practical)per week(in hours) : Lectures-03(hr),Practicals-04(hr) | | | | | | | | | |
| Week | | Theory | | Practical | | | | | |
| | Lecture Day | | Practical Day | | | | | | |
| | | Topic(including assigment/test) | | Торіс | | | | | |
| | 1st | Introduction to haematology | | | | | | | |
| 1st | 2nd | Various glassware/plasticware used in haematology labs Various glassware/plasticware used in haematology labs | 1st | Parts of microscope (Monocular & Binocular): Its function and care | | | | | |
| | 3rd | Introduction to blood | | | | | | | |
| | 1st | Definition & Composition | | | | | | | |
| 2nd | 2nd | | 2nd | Parts of microscope (Monocular & Binocular): Its function and care | | | | | |
| | 3rd | Cells-WBC (Granulocytes-Neutrophils, Eosinophils & Basophils), (Agranulocytes-Lymphocytes & Monocytes) | | | | | | | |
| | 1st | Plasma & its components | | | | | | | |
| 3rd | 2nd | Function-cell functions & plasma functions | 3rd | Parts of centrifuge: Its function and care | | | | | |
| | 3rd | Formation of blood (Erythropoiesis, Leukopoiesis & Thrombopoiesis) | | | | | | | |
| | 1st | Formation of blood (Erythropoiesis, Leukopoiesis & Thrombopoiesis) | | | | | | | |
| 4th | 2nd | Formation of blood (Erythropoiesis, Leukopoiesis & Thrombopoiesis) | 4th | Parts of centrifuge: Its function and care | | | | | |
| | 3rd | Anticoagulants, (2nd Unit) | | | | | | | |
| | 1st | Definition, various types of anticoagulants | | | | | | | |
| 5th | 2nd | Definition, various types of anticoagulants | 5th | Parts of Blood Mixer: Its function and care | | | | | |
| | 3rd | their mode of action | | | | | | | |
| | 1st | Anticoagulants preparation | | | | | | | |
| 6th | 2nd | merits and demerits | 6th | Parts of Blood Mixer: Its function and care | | | | | |
| | 3rd | Difference between Plasma and serum | | | | | | | |
| | 1st | Collection of blood; venous and capillary (3rd Unit) | | | | | | | |
| 7th | 2nd | Venipuncture : materials and equipment required for venipuncture | 7th | Cleaning and drying of glassware | | | | | |
| | 3rd | Preparation of patients for venipuncture, Applying tourniquet | | | | | | | |
| | 1st | Selection and preparing the venipuncture site | | | | | | | |
| 8th | 2nd | Performing venipuncture | 8th | Cleaning and drying of glassware | | | | | |
| | 3rd | Care of venipuncture site | | | | | | | |
| | 1st | Disposable of blood, syringes, needle and lancets. | | | | | | | |
| 9th | 2nd | Capillary puncture site (4th Unit) | 9th | Estimation of Differential Leukocyte count. | | | | | |
| | 3rd | Materials and equipment required for capillary puncture site | | | | | | | |

| | 1st | Selecting and preparing the puncture site | | |
|------|-----|---|----------------|--|
| 10th | 2nd | Techniques performing the puncture site | 10th | Estimation of Differential Leukocyte count. |
| | 3rd | Collection of blood sample | | |
| | 1st | Care of the capillary puncture site | | |
| 11th | 2nd | Vacutainer system for blood collection | 11th | Preparation of various anticoagulants. |
| | 3rd | Romanowsky stains (Leishman, Giemsa) | | |
| | 1st | Preparation and theory | : 16 | |
| 12th | 2nd | Choice of slide and spreader | weeks(from 04 | Collection of blood sample by venipuncture |
| | 3rd | Preparation of blood film | August 2025 to | |
| 13th | 1st | Characteristics of good blood smear | 13th | Collection of blood sample by capillary puncture |
| | 2nd | Examination of blood smear | | |
| | 3rd | Identification of blood cell | | |
| | 1st | Assignment | | |
| 14th | 2nd | Assignment | 14th | Preparation of peripheral blood film (PBF). |
| | 3rd | Assignment | | |
| | 1st | Test | | |
| 15th | 2nd | Test | 15th | Preparation of stain. |
| | 3rd | Test | | |
| | 1st | Theory Sessional | | |
| 16th | 2nd | Theory Sessional | 16th | Practical Assignment Preparation |
| | 3rd | Theory Sessional | | |

| | | JANTA COLLEGE OF PHARM | 1ACY,BU | TANA(SONEPAT) | | | | |
|------------|--|--|---------------|---|--|--|--|--|
| | | LESSON F | PLAN | | | | | |
| Name of th | ne Faculty | : Mr.Amit Kumar | | | | | | |
| Discipline | | : DMLT | | | | | | |
| Semester | | : First | | | | | | |
| Subject | Subject : Cl.Microbiology - I | | | | | | | |
| Lesson Pla | Lesson Plan Duration : 16 weeks(from 04 August 2025 to 26 November 2025)(According to Syllabus Scheme) | | | | | | | |
| Work load | (Lecture/Pra | actical)per week(in hours) : Lectures-03(hr), Practicals-04(hr) | | | | | | |
| Week | | Theory | | Practical | | | | |
| | Lecture Day | Topic(including assigment/test) | Practical Day | Торіс | | | | |
| 1st | 1st | Definition, history, relationship of microorganisms to man (1st Unit) | 1st | Demonstration of safety rules in a microbiology laboratory | | | | |
| | 2nd | Safety guideline in a microbiology laboratory. Universal precautions | | | | | | |
| | 3rd | Bio-safety cabinets: principle, | | | | | | |
| 2nd | 1st | types of bio-safety cabinets and their applications | 2nd | cleaning agents and techniques of cleaning of glass and plastic ware. | | | | |
| | 2nd | Classification of micro-organisms (2nd Unit) | | | | | | |
| | 3rd | Morphology of Bacteria | . . | | | | | |
| 3rd | 1st | Bacterial cell wall | 3rd | Sterilization by autoclave and not air oven | | | | |
| | 2nd | Cell wall structures | | | | | | |
| 4.1 | 3rd | Physiology of bacteria | 411 | | | | | |
| 4th | 1st | Bacterial growth and nutrition | 4th | Sterilization by autoclave and not air oven | | | | |
| | 2nd | Sterilization, Introduction, types of sterilization (3rd Unit) | | | | | | |
| Each - | 3rd | Sterilization, introduction, types of sterilization | E 4 h | Charilton in filmenting (China) | | | | |
| Stn | 1st 2nd | operation of autoclave, sterilization control and sterilization indicators | Sth | Sterilization by filtration (seltz) | | | | |
| | 2110 | Operation of not air oven , sternization control and sternization indicators | - | | | | | |
| Cth | 3rd | Sterilization by radiation | Cth | Landling and use of semnound microscope | | | | |
| oth | 1SL 2nd | Chemical methods of Starilization | 001 | Handling and use of compound microscope | | | | |
| | 2110 | Anticoptics and disinfectants | | | | | | |
| 7th | 1ct | Definition types properties and uses of common Antisentics and disinfectants | 7th | Staining techniques: Gram Albert's Ziehl – Neelson's | | | | |
| 701 | 2nd | Formaldehyde, Ethylene oxide, phenol compounds, Alcohol, hynochlorite | 7.01 | Stanning techniques. Grant, Abert S, Zienn – Neelson S | | | | |
| | 3rd | Definition of Phenol coefficient | | | | | | |
| 8th | 1st | determination Phenol coefficient by Rideal Walker method | 8th | Staining techniques: Gram Albert's Ziehl – Neelson's | | | | |
| | 2nd | Handling of a compound microscope (4th Linit) | 0011 | stanning teeninguest orani, moeres, zieni intersoli s | | | | |
| | 3rd | Care and maintenance of different parts of a compound microscope | | | | | | |
| 9th | 1st | Principle of working of fluorescent microscope | 9th | Staining techniques: Gram, Albert's, Ziehl – Neelson's | | | | |
| | 2nd | Staining techniques: Method of smear preparation | | | | | | |
| | 3rd | Differential staining methods: Gram staining | | | | | | |
| | | | | | | | | |

| 10th | 1st | AFB staining, Albert's staining | 10th | Demonstration of motility (Hanging drop method) |
|------|-----|---|----------|--|
| | 2nd | staining of capsule | | |
| | 3rd | Preparation of staining solutions and their storage | | |
| 11th | 1st | Definition, synthetic and non-synthetic media (5th | 11th | Preparation and sterilization of various culture media |
| | 2nd | Types of culture media: liquid, and solid media | | |
| | 3rd | routine laboratory media (Basal. Enriched, | | |
| 12th | 1st | selective, enrichment | : 16 | Preparation and sterilization of various culture media |
| | 2nd | routine laboratory media (Basal. Enriched, selective, enrichment | weeks(fr | |
| | 3rd | indicator, transport, and storage) with two examples of each type | om 04 | |
| 13th | 1st | Different types of inoculating loops | 13th | Isolation of organisms in pure culture, study of colony characteristics and demonstration of |
| | 2nd | different types of swabs and their uses | | haemolysis on blood agar. |
| | 3rd | Types of bacterial culture | | |
| 14th | 1st | broth culture, stab culture, slant culture | 14th | Isolation of organisms in pure culture, study of colony characteristics and demonstration of |
| | 2nd | Culture techniques: streak plate, pour plate | | haemolysis on blood agar. |
| | 3rd | spreading/ lawn culture | | |
| 15th | 1st | Aerobic and anaerobic culture | 15th | Isolation of organisms in pure culture, study of colony characteristics and demonstration of |
| | 2nd | Isolation of pure cultures and disposal of cultures | | haemolysis on blood agar. |
| | 3rd | Isolation of pure cultures and disposal of cultures | | |
| 16th | 1st | Theory Sessional | 16th | Isolation of organisms in pure culture, study of colony characteristics and demonstration of |
| | 2nd | Assignment/Test | | haemolysis on blood agar. |
| | 3rd | Assignment/Test | | |

| | JANTA COLLEGE OF PHARMACY,BUTANA(SONEPAT) | | | | | | | |
|-------------|---|--|---------------|--|--|--|--|--|
| | LESSON PLAN | | | | | | | |
| Name of th | Name of the Faculty : Mrs.Reena | | | | | | | |
| Discipline | | : DMLT | | | | | | |
| Semester | | : First | | | | | | |
| Subject | | : Basic Chemistry | | | | | | |
| Lesson Plan | n Duration | : 16 weeks(from 04 August 2025 to 26 November 2025)(According to Syllabus Scheme) | | | | | | |
| Work load | Lecture/Pra | ctical)per week(in hours) : Lectures-02(hr). Practicals-02(hr) | | | | | | |
| Week | | Theory | 1 | Practical | | | | |
| | Lecture Day | Topic(including assignment/test) | Practical Day | Tonic | | | | |
| | | | | | | | | |
| 1st | 1st | st Biologically important elements, study of their atomic number, mass number, atomic mass | | Glassware Identification - different types, cleaning and preparation of cleaning solution. | | | | |
| | 2nd | equivalent weight & molecular weight. Importance of Basic chemistry in medical laboratory technology | | | | | | |
| | 3rd | Importance of Water quality and Glasswares in clinical laboratory: different types of glassware's, use, cleaning, | | | | | | |
| 2nd | 1st | standardization of volumetric glassware & maintenance. Pipettes - various types and different pipetting techniques | 2nd | Standardization, rechecking of volumetric glasswares | | | | |
| | 2nd | Biochemical importance of distilled water and deionised water in clinical analysis | _ | | | | | |
| | 3rd | Solution and colloids – importance of colloids in biological system | 7 | | | | | |
| 3rd | 1st | Surface tension, osmosis and viscosity their importance in biological system | 3rd | Determination of pH of different solutions | | | | |
| | 2nd | Definition of organic and inorganic compounds. Importance of organic compounds - in Biological system | | | | | | |
| | 3rd | Basic chemistry of carbohydrates, their nutritional effect in humans | | | | | | |
| | 1st | Basic chemistry of proteins , their nutritional effect in humans | | | | | | |
| 4th | 2nd | Basic chemistry of lipids ,their nutritional effect in humans | 4th | Titration of Acid and Base. | | | | |
| | 3rd | Physiological importance of Acid & Bases and role of pH in human system | | | | | | |
| | 1st | Oxidation and Reduction reactions –Definition | | | | | | |
| 5th | 2nd | Preparation of various standard solutions – definition of primary & secondary standards, SI units and their uses. | 5th | Performing confirmatory tests for Carbohydrate – Molisch | | | | |
| | 3rd | Preparation of various standard solutions – definition of primary & secondary standards, SI units and their uses. | | | | | | |
| | 1st | Principles of photometry, Laws of photometry | | | | | | |
| 6th | 2nd | its importance - quantification of biomolecules in micro concentration | 6th | Performing confirmatory tests for Protein-Biuret | | | | |
| | 3rd | Principles used in determining concentration of molecules with no known weight | | | | | | |
| | 1st | preparation of standard graph | | | | | | |
| 7th | 2nd | Blood collection for biochemical analysis | 7th | Identification of Parts of Colorimeter | | | | |
| | 3rd | changes occuring in blood after collection | | | | | | |
| | 1st | management of its disposal | 4 | | | | | |
| 8th | 2nd | Different types of Hazards- Biological, Chemical, fire, apparatus | 8th | Identification of Parts of Spectrophotometer | | | | |
| | 3rd | Safety measures needed in Basic chemistry and clinical biochemistry laboratory | | | | | | |
| | 1st | Safety measures needed in Basic chemistry and clinical biochemistry laboratory | 4 | | | | | |
| 9th | 2nd | Assuring Good Laboratory Practices (GLP) in Basic chemistry. | 9th | Preparation of different types of standards solution. | | | | |
| | 3rd | Revision Syllabus | | | | | | |

| | 1st | Revision Syllabus | | |
|------|-----|-------------------|---------------|--|
| 10th | 2nd | Test | 10th | Determination of Absorption maximum of a coloured solution |
| | 3rd | Test | | |
| | 1st | Theory Sessional | | |
| 11th | 2nd | Theory Sessional | 11th | |
| | 3rd | | | |
| | 1st | | : | |
| | 2nd | | 16 weeks(f | |
| | 3rd | | | |
| | 1st | | 13th | 13th |
| | 2nd | | | |
| | 3rd | | | |
| | 1st | | 14th | 14th |
| | 2nd | | | |
| | 3rd | | | |
| | 1st | | | |
| | 2nd | | 15th | |
| | 3rd | | | |
| | 1st | | | |
| | 2nd | | 16th | |
| | 3rd | | | |

| LESSON : Mr. Amit Kumar : DMLT : First : Anatomy & Physiology -1 : 16 weeks(from 04 August 2025 to 26 November 2025 ractical)per week(in hours) : Lectures-03(hr),Practicals-02(hr) Theory Topic(including assignent/test) General Anatomy Introduction to Anatomy & Physiology Levels of organization, parts of human body Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) | PLAN)(According Practical Day 1st | Practical Topic Demonstration of different parts of body(Cranial cavity (Brain),Thoracic cavity |
|--|--|---|
| Mr. Amit Kumar DMLT DMLT First Anatomy & Physiology -I 16 weeks(from 04 August 2025 to 26 November 2025 ractical)per week(in hours) : Lectures-03(hr),Practicals-02(hr) Theory Topic(including assignent/test) General Anatomy Introduction to Anatomy & Physiology Levels of organization, parts of human body Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) |)(According Practical Day 1st | Practical Topic Demonstration of different parts of body(Cranial cavity (Brain),Thoracic cavity |
| |)(According Practical Day 1st | Practical Topic Demonstration of different parts of body(Cranial cavity (Brain),Thoracic cavity |
| |)(According Practical Day 1st | Practical Topic Demonstration of different parts of body(Cranial cavity (Brain),Thoracic cavity |
| Anatomy & Physiology -1 16 weeks(from 04 August 2025 to 26 November 2025 ractical)per week(in hours) : Lectures-03(hr),Practicals-02(hr) Theory Topic(including assignment/test) General Anatomy Introduction to Anatomy & Physiology Levels of organization, parts of human body Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) |)(According Practical Day 1st | Practical Topic Demonstration of different parts of body(Cranial cavity (Brain),Thoracic cavity |
| I for weeks (from 04 August 2025 to 26 November 2025 ractical)per week (in hours) : Lectures-03(hr), Practicals-02(hr) Theory Topic (including assignment/test) General Anatomy Introduction to Anatomy & Physiology Levels of organization, parts of human body Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) |)(According Practical Day 1st | Practical Topic Demonstration of different parts of body(Cranial cavity (Brain),Thoracic cavity |
| To Weeks (from 04 August 2025 to 26 November 2025 ractical)per week(in hours) : Lectures-03(hr),Practicals-02(hr) Theory Topic(including assigment/test) General Anatomy Introduction to Anatomy & Physiology Levels of organization, parts of human body Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) | Practical Day 1st | Practical Topic Demonstration of different parts of body(Cranial cavity (Brain),Thoracic cavity |
| ractical)per week(in hours) : Lectures-03(hr),Practicals-02(hr) Theory Topic(including assigment/test) General Anatomy Introduction to Anatomy & Physiology Levels of organization, parts of human body Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) | Practical Day 1st | Practical Topic Demonstration of different parts of body(Cranial cavity (Brain),Thoracic cavity |
| Theory Topic(including assigment/test) General Anatomy Introduction to Anatomy & Physiology Levels of organization, parts of human body Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) | Practical Day | Practical Topic Demonstration of different parts of body(Cranial cavity (Brain),Thoracic cavity |
| Topic(including assigment/test) General Anatomy Introduction to Anatomy & Physiology Levels of organization, parts of human body Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) | Practical Day | Topic Demonstration of different parts of body(Cranial cavity (Brain),Thoracic cavity |
| General Anatomy Introduction to Anatomy & Physiology Levels of organization, parts of human body Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) | 1st | Demonstration of different parts of body(Cranial cavity (Brain), Thoracic cavity |
| Introduction to Anatomy & Physiology Levels of organization, parts of human body Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) | | |
| Levels of organization, parts of human body Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) | | (Heart and lungs) |
| Major body divisions and sectional divisions Basic tissues of the body (Gross structure and functions) | | |
| Basic tissues of the body (Gross structure and functions) | | |
| | 2nd | Demonstration of different parts of body(Abdominal cavity),Pelvic cavity |
| Epithelial tissue | | |
| Connective tissue | | |
| Muscular tissue | 3rd | Demonstration of basic tissues of the body |
| Nervous tissue | _ | |
| Skeletal System | | |
| Gross structure | | |
| function and classification | 4th | Demonstration of basic tissues of the body |
| Bones of appendicular and axial skeleton | _ | |
| Bones of Pectoral girdle and lower limbs | [th | Domonstration of various parts of honor |
| Joints & Articulations | 500 | Demonstration of various parts of bories |
| Types of joints (Structural and functional classification) | - | |
| Bones forming major synovial joints | 6th | Demonstration of various parts of hones |
| Shoulder, Elbow, wrist, hip | | Demonstration of various parts of bolics |
| knee, ankle and intervertebral joints | | |
| Muscular System | 7th | Demonstration of major joints of the body |
| Muscular System | _ | · · · · · · · · · · · · · · · · · · · |
| Properties of muscular tissue | | |
| Classification, structure and functions of muscles | | |
| Skeletal muscle | 8th | Demonstration of major joints of the body |
| Smooth muscle | | |
| Cardiac muscle | | |
| Cardiovascular System | 9th | Demonstration of structural differences between: - Skeletal muscle - Smooth muscle |
| Anatomy of heart: External& Internal features of heart, | | and - Cardiac muscle |
| Chambers of heart | 4 | |
| Blood vessels attached to various chambers of heart | | |
| Coronary vessels & Major arteries and Veins of body | 10th | Demonstration of heart |
| Circulation of Blood: Pulmonary, Coronary and Portal circulation | - | |
| Blood Pressure: Definition of blood pressure, various terms used in Blood | | |
| | 11th | Demonstration of Radial nulse examination |
| | Gross structure function and classification Bones of appendicular and axial skeleton Bones of Pectoral girdle and upper limbs Bones of Pelvic girdle and lower limbs Joints & Articulations Types of joints (Structural and functional classification) Bones forming major synovial joints Shoulder, Elbow, wrist, hip knee, ankle and intervertebral joints Muscular System Muscular System Properties of muscular tissue Classification, structure and functions of muscles Skeletal muscle Cardiac muscle Cardiac muscle Cardiac muscle Cardiac muscle Blood vessels attached to various chambers of heart Coronary vessels & Major arteries andVeins of body Circulation of Blood: Pulmonary, Coronary and Portal circulation Blood Pressure: Definition of blood pressure | Gross structure 4th function and classification 4th Bones of appendicular and axial skeleton 4th Bones of Pectoral girdle and upper limbs 5th Bones of Pelvic girdle and lower limbs 5th Joints & Articulations 5th Types of joints (Structural and functional classification) 6th Shoulder, Elbow, wrist, hip 6th knee, ankle and intervertebral joints 7th Muscular System 7th Properties of muscular tissue 7th Classification, structure and functions of muscles 8th Smooth muscle 8th Cardiac muscle 9th Anatomy of heart: External& Internal features of heart, 9th Chambers of heart Blood vessels attached to various chambers of heart Blood vessels attached to various chambers of heart 10th Circulation of Blood: Pulmonary, Coronary and Portal circulation 8lood Blood Pressure: Definition of blood pressure, various terms used in Blood 11th |

| | 3rd | Introduction to ECG: Basic principles, normal electrocardiogram& grids of | | |
|------|-----|---|------|--|
| 12th | 1st | electrographic leads, cardiac cycle and Junctional tissues | 12th | Demonstration of Blood pressure Estimation |
| | 2nd | Patient preparation for ECG recording & care and maintenance of ECG | | |
| | | Respiratory System | | |
| | 3rd | Respiratory System | 13th | Demonstration of ECG recording |
| 13th | 1st | Organs of respiration: Upper and lower respiratory tract | | |
| | 2nd | Nose and Paranasal sinuses | | |
| | 3rd | Nasopharynx and larynx | | |
| 14th | 1st | Trachea, bronchi and lungs | 14th | Demonstration of various parts of respiratory system |
| | 2nd | Functions and mechanism of Respiratory system | | |
| | 3rd | Gas exchange in lungs | | |
| 15th | 1st | Control of respiration | 15th | Demonstration of various parts of respiratory system |
| | 2nd | Basal Metabolic Rate (BMR) | | |
| | 3rd | Respirometery: Procedure, clinical applications & Importance | | |
| 16th | 1st | Theory Sessional | 16th | Demonstration of various parts of respiratory system |
| | 2nd | assigment/test | | |
| | 3rd | assigment/test | | |

JANTA COLLEGE OF PHARMACY, BUTANA (SONEPAT)

LESSON PLAN

Name of the Faculty : Mrs. Sanehlata

Discipline :

Semester :

Subject : ENGLISH & COMMUNICATION SKILLS – I

DMLT

First

Lesson Plan Duration : 16 weeks(from 04 August 2025 to 26 November 2025)(According to Syllabus Scheme)

Work load(Lecture/Practical)per week(in hours) : Lectures-02(hr), Practicals-02(hr)

| Week | | Theory | | Practical |
|------|-------------|---|---------------|--|
| | Lecture Day | Topic(including assigment/test) | Practical Day | Торіс |
| | | | | |
| | | | | |
| 1st | 1st | Reading (1st Unit) | 1st | Reading Practice of lessons in the Lab Activity classes |
| | 2nd | Techniques of reading: Skimming and Scanningn | | |
| | 3rd | Extensive and Intensive Reading: Textual Study | | |
| 2nd | 1st | Homecoming – R.N. Tagore | 2nd | Comprehension exercises of unseen passages along with the lessons prescribed. |
| | 2nd | Life Sketch of Sir MokshagundamVisvesvarayya | | |
| | 3rd | Life Sketch of Sir MokshagundamVisvesvarayya | | |
| 3rd | 1st | Life Sketch of Dr. Abdul Kalam | 3rd | Vocabulary enrichment and grammar exercises based on the selected readings |
| | 2nd | Life Sketch of Dr. Abdul Kalam | | |
| | 3rd | Narayan Murthy's speech at LBSNA, Dehradun | | |
| 4th | 1st | Narayan Murthy's speech at LBSNA, Dehradun | 4th | Reading aloud Newspaper headlines and important articles. |
| | 2nd | Fundamentals of Communication (2nd Unit) | | |
| | 3rd | Concept and Process of Communication | | |
| 5th | 1st | Types of Communication (Verbal Communication) | 5th | Introducing oneself, others and leave- taking(talking about yourself) |
| | 2nd | Barriers to Communication | | |
| | 3rd | Barriers to Communication | | |
| 6th | 1st | Speaking Skill: Significance and essentials of Spoken Communication | 6th | Just a minute (JAM) sessions: Speaking extempore for one minute on given topics |
| | 2nd | Listening Skill: Significance and essentials of Listening | | |
| | 3rd | Grammar and Usage (3rd Unit) | | |
| 7th | 1st | Nouns | 7th | Situational Conversation: Offering-Responding to offers; Congratulating; Apologizing and Forgiving; |
| | 2nd | Pronouns | | Complaining; Talking about likes and dislikes, Self-introduction Mock Interviews |
| | 3rd | Articles | | |
| 8th | 1st | Verbs(Main and Auxiliary) | 8th | Situational Conversation: Offering-Responding to offers; Congratulating; Apologizing and Forgiving; |
| | 2nd | Verbs(Main and Auxiliary) | | Complaining; Talking about likes and dislikes, Self-introduction Mock Interviews |
| | 3rd | Tenses | | |
| 9th | 1st | Tenses | 9th | Written and Oral Drills will be undertaken in the class to facilitate holistic linguistic competency |
| | 2nd | Writing Skills (4th Unit) | | among learners. |
| | 3rd | Significance, essentials and effectiveness of Written Communication | | |

| 10th | 1st | Netiquettes | 10th | Exercises on the prescribed grammar topics. |
|------|-----|--|-----------|---|
| | 2nd | Official Letters and E-mails | | |
| | 3rd | Frequently-used Abbreviations used in Letter-Writing | | |
| 11th | 1st | Paragraph Writing | 11th | Exercises on the prescribed grammar topics. |
| | 2nd | Netiquettes | | |
| | 3rd | | | |
| 12th | 1st | | : 16 | Exercises on the prescribed grammar topics. |
| | 2nd | | weeks(fro | |
| | 3rd | | m 04 | |
| 13th | 1st | | 13th | Exercises on the prescribed grammar topics. |
| | 2nd | | | |
| | 3rd | | | |
| 14th | 1st | | 14th | Students should be given Written Practice in groups so as to inculcate team-spirit and collaborative learning |
| | 2nd | | | |
| | 3rd | | | |
| 15th | 1st | | 15th | Group exercises on writing paragraphs on given topics |
| | 2nd | | | |
| | 3rd | | | |
| 16th | 1st | | 16th | Opening an e-mail account, receiving and sending emails |
| | 2nd | | | |
| | 3rd | | | |

| | JANTA COLLEGE OF PHARMACY, BUTANA (SONEPAT) | | | | | | |
|--------|---|--|---------------|--|--|--|--|
| | | LESSON PL | AN | | | | |
| Name | Name of the Faculty : Mrs. Poonam Rani | | | | | | |
| Discip | ine | : DMLT | | | | | |
| Semes | ter | : First | | | | | |
| Subjec | t | : FUNDAMENTALS OF MLT | | | | | |
| Lesson | Plan Durati | ion : 16 weeks(from 04 August 2025 to 26 November | | | | | |
| Work | load(Lecture | <pre>/Practical)per week(in hours) : Lectures-03(hr),Practicals-02(hr)</pre> | | | | | |
| We | • | Theory | | Practical | | | |
| ek | Lecture Day | | Practical Day | | | | |
| | | Topic(including assigment/test) | | Торіс | | | |
| | | | | | | | |
| | | Basic Training of laboratory technicians | | | | | |
| 1st | 1st | Basic ethics of Medical laboratory Technology | 1st | The Principal and procedure of autoclave and identify their parts- | | | |
| | 2nd | Iraining of clinical laboratory technicians | - | water bath, not an oven, incubator | | | |
| Jand | 3rd 1ct | Redical laboratory professional - professionalism in laboratory workers | Jad | The Drinning and procedure of outgelous and identify their parts | | | |
| zna | 1SL 2nd | Eirst aid in the clinical laboratory | 210 | water bath, bot air oven, incubator | | | |
| | 211U 2rd | Storage and handling of dangerous chemicals | - | water bath, not an oven, meabator | | | |
| 2r | 3ru 1ct | Common Laboratory bazards | 3rd | The Principal and procedure of autoclave and identify their parts | | | |
| d | 2nd | Color coding of various Waste disposal containers in the labs | Siu | water bath, hot air oven, incubator | | | |
| _ | 2110 | Introduction to Instrumentation in a Medical Laboratory | | | | | |
| | 3rd | Introduction to Basic Equipments in MLT | | | | | |
| 4t | 1st | Different types of syringes used for blood collection. | 4th | The Principal and procedure of autoclave and identify their parts- | | | |
| h | 2nd | Basic requirements of blood collection. | | water bath, hot air oven, incubator | | | |
| | | Principle, Care, Procedure and Application of the Basic Instruments | | | | | |
| | 3rd | Centrifuge (routine - low and high speed -table top) | | | | | |
| 5t | 1st | Centrifuge (routine - low and high speed -table top) | 5th | To demonstrate basic internal organization & identify their | | | |
| h | 2nd | Water Bath | | parts. Centrifuge colorimeter | | | |
| | 3rd | Hot Air Oven | | | | | |
| 6th | 1st | Incubator | 6th | To demonstrate basic internal organization & identify their | | | |
| | 2nd | Colorimeter |] | parts. Centrifuge colorimeter | | | |
| | 3rd | Compound Microscope (Monocular and Binocular) | | | | | |
| 7t | 1st | Compound Microscope (Monocular and Binocular) | 7th | To demonstrate basic internal organization of compound | | | |
| h | | Principle, Care & Safe Operating Procedure and Application of | | microscope & identify their parts. | | | |
| | 2nd | pH Meter | | | | | |

| | 3rd | Distillation unit | | |
|------|-----|---|------|--|
| 8t | 1st | Balance (Physical and chemical) | 8th | To demonstrate basic internal organization of compound |
| h | 2nd | Balance (Physical and chemical) | _ | microscope & identify their parts. |
| | 3rd | Micro tome | | |
| 9th | 1st | Micro tome | 9th | To demonstrate basic internal organization of identify their |
| | 2nd | Microbe filters (Seitz, Glass Scintered & Membrane) | | parts. pH meter chemical balance |
| | 3rd | Microbe filters (Seitz, Glass Scintered & Membrane) | | |
| 10th | 1st | Microbe filters (Seitz, Glass Scintered & Membrane) | 10th | To demonstrate basic internal organization of identify their |
| | | Principle, Care, Procedure and Application of the | | parts. pH meter chemical balance |
| | 2nd | Refrigerated Centrifuge | | |
| | 3rd | Ultra Centrifuge | | |
| 11th | 1st | Specialised Incubator | 11th | To demonstrate basic internal organization & identify their parts. |
| | 2nd | B.O.D. Incubator | | Microtome Tissue Processing Unit Hematology Cell Counter |
| | 3rd | Special Microscopes | | |
| 12th | 1st | Dark Field Microscope | 12th | To demonstrate basic internal organization & identify their parts. |
| | | Phase Contrast Microscope | | Microtome Tissue Processing Unit Hematology Cell Counter |
| | 2nd | Florescence Microscope | | |
| | 3rd | Electron Microscope | | |
| 13th | 1st | Tissue Processing Unit | 13th | To demonstrate basic internal organization & identify their parts. |
| | 2nd | Tissue Processing Unit | | Microtome Tissue Processing Unit Hematology Cell Counter |
| | 3rd | Biochemistry Analyzer | | |
| 14th | 1st | Biochemistry Analyzer | 14th | To demonstrate basic internal organization & identify their parts. |
| | 2nd | Laminar Air Flow Hood& their Different Types | | Microtome Tissue Processing Unit Hematology Cell Counter |
| | 3rd | Laminar Air Flow Hood& their Different Types | | |
| 15th | 1st | Haematology Cell Counter | 15th | Practical Assignments preparation |
| | 2nd | Haematology Cell Counter | | |
| | | Test | | |
| | 3rd | Test | | |
| 16th | 1st | Theory Sessional | 16th | Practical Assignments preparation |
| | 2nd | Theory Sessional | | |
| | 3rd | Practical Assignments | | |