



**DR S PAWAR EDUCATIONAL SOCIETY**



**RV INSTITUTE OF PARAMEDICAL  
SCIENCES COLLEGE**



**AFFILIATED TO TELANGANA PARAMEDICAL BOARD  
(Recognition Certificate. No. 138/17/05/TSPMB/2023)**



# **CURRICULUM**

**Address :- RV Institute of Paramedical Sciences College  
1-75/5/360A, Plot No - 8 Sai Bhavani Nagar Boduppal  
Hyderabad Telangana State Pin Code : 500092**

**Email Id : [rvipsc@gmail.com](mailto:rvipsc@gmail.com) website : [www.rvpgroups.com](http://www.rvpgroups.com)**

**PH : 8074507008,9701270981,8008297414**

# RV INSTITUTE OF PARAMEDICAL SCIENCES COLLEGE



**BODUPPAL - HYDERABD**



**TELANGANA PARAMEDICAL BOARD**

Recognition Certificate. No. 138/17/05/TSPMB/2023

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**DMST**

**DMIT**

**DMLT**

**DIPLOMA IN DIALYSIS**

**DR S PAWAR EDUCATIONAL SOCIETY**

**RV DIGONOSTIC AND RESEARCH CENTRE**



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**RV INSTITUTE OF  
PARAMEDICAL SCIENCES COLLEGE**

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**Estd.2023**



**Dr. S Pawar Educational Society**

**RV INSTITUTE OF PARAMEDICAL SCIENCE COLLEGE**

Affiliated to TS Para Medical Board,  
Hyderabad, Telangana

**College Adress: 1-75/5/360A, Plot # 8,  
Sai BhavaniNagar, Surya Hills, Boduppall,  
Hyderabad, Telangana 500092**



**Provided By**

**TELANGANA PARAMEDICAL BOARD**

**HYDERABAD, TELANGANA**

# **SYLLABUS**

## **DMST**

**Theory Papers 3 + practical papers 3**  
**6 Months Internship Training**  
**followed by 100% Jobplacement assurance**  
**Sub Topics ( Part - A,B,C& D ) of all**  
**papers I, II & III Three Hoursof theory ,**  
**two hours of tutorial and weekly practical**  
**sessions for a duration of 2 years**  
**diploma 30 - 36 weeks**

## DMST-First Year

Paper	SUBJECTS	(MAX. MARKS)		Total	Pass Marks	Practical Marks	Pass Marks
		INTERNAL	EXTERNAL				
I	A & B : Anatomy & Physiology C: Biochemistry D: Biostatistics A: Skeletal System B: Sources of infection	20	80	100	40	60	24
II	A: Basics of Pathology B: Basics of Blood Banking C: Basics of Microbiology A: Pharmacology B: pathology C: Intravenous therapy D: Prevention of pressure sore E: Respiration F: Parasitological	20	80	100	40	60	24
III	A: Hospital Awareness B: Communication Skills C: Patient Related Services D: Basic of Central Sterilization A: Biomedical B: Physical examination C: Cardiac Procedures D: Neurological H: Urinary	20	80	100	40	60	24

1.	Orientation Program	June I/II year
2.	Training after Theory classes	6 <sup>th</sup> months
3.	Practical Examination	July II year
4.	Theory examination	Sept II year

- Sankranthi Holidays 10 Days
- Dasara and Batukamma holidays 15 days
- Summer Holidays 1 Month ( May)

## PAPER -1

### A: Anatomy (Theory):-

#### 1. Introduction:-

#### ANATOMY & PHYSIOLOGY

- (a). Common Anatomical terms & Anatomical Positions . Different parts of the human body
- (b) Tissue with Function & Classification (c) Cell & Animal Cell
- (2.) Skeletal system:
  - (a) Bones, joint, & Movement (b) Muscles
- (3) Genito- Urinary System:(a) Male & Female Reproductive Organic System (b) Urinary bladder, Kidney and Ureter (C). Uterus & Urethra
- (4) Respiratory System(a) Lungs & Thoracic Cavity(b) Pleura (c) Surface marking of lungs
- (5) Gastro- Intestinal System :- (a) Mouth (b) Pharynx & Salivary gland and Tonsils  
(c) Oesophagus & stomach (d) Spleen & Pancreas (e) Gall Bladder & Liver (f) Surface making of Abdomen (g) Structure of Digestive Tract
- (6) Movement of the body (a) Upper Limb –Bones, Important Vessels (b) Lower Limb –Bones Important Vessels

(7)Nerves System(a) C.S.F & Spinal Card (b) Nerves & Brain(c) Sympathetic And Sympathetic  
(d) Cranial and Spinal Nerves

(8)Cardio –Vascular System(a) Arterial System (b) Lymphatic and Venous System

(c) Heart (d) Surface Making, Important Blood Vessels & Muscles(e) Pericardium

B: Physiology (Theory)

1. Introduction to Human Physiology

2. Digestive System(a) Mastication deglutition(b)Function and Composition Saliva (c) Function of Stomach (d) Function and Composition of gastric juice (e) Function of Pancreatic Juice (f) Function of Bile

3. Respiratory System(a) Define-Respiratory Rate(b) Vital Capacity, Cyanosis

(c)External & Internal Respiration (d) Transport of O<sub>2</sub> and CO<sub>2</sub> in the Blood (e) Function of Respiration its structure

4. Blood(a) Function of Blood (b) Composition of Blood (c) Anti- Coagulants(c)Description of Blood Cells(e) Blood Group of A B C O and Rh Factor(f) Function of Lymph (g)anaemia and its Type

5. Cardio- Vascular System(a) Define of Cardio output(b) Define the blood pressure, Electrocardiogram (e) Circulation (Systematic and Pulmonary) (f) Function of Heart (g) Function of Blood vessels (h) Cardio Cycle

6. Excretory System(a) Kidney (Function)(b) Formation of Urine (Normal and abnormal)(c) Composition of Urine

7. ENDOCRINE GLAND(a) Define- Name and hormones Secretd by than (b) Action of Hormones in our body

8. Reproductive System(a)Male female Genital System(b) Function of Ovary(c) Formation of Ova and Their action of ovarian Hormones(d) Function of Testis- Their action Testosterone(e)Mensuration Cycle and Fertilization (f)Progesterone and Oestrogen Hormones

9. Skin(a) Define the Skin (b) Function of Skin

10. Formation, Function &Composition of C.S.F

11. Special Senses-Smell, Taste, Touch, Hearing



## **REFERENCE BOOKS:**

1. Anatomy & Physiology for Paramedical students – Pinky Rajendra Wadiya
2. Anatomy & Physiology -Teena kumari
3. Anatomy & Physiology- Indu Khurana Arushi Khurana
4. Anatomy & Physiology- Gyton
5. Ross & Wilson Anatomy & Physiology in Health & Illness
6. BD Chaurasias Human Anatomy Vol-I

## **C: BASICS OF BIO-CHEMISTRY**

1. Introduction to basics of Biochemistry including code of ethics for Medical Lab Technicians and Medical lab organization
2. Reception, Registration and Bio-Chemical parameters investigated.
3. Glassware Laboratory.
  - a. Glassware:
    1. Types of glass and composition
    2. Types of glassware used, their identification, application & uses.
    3. Cleaning ,Drying, Maintenance and storage of glassware Plastic ware : Brief outline
    4. Instrumental methods of Bio-chemical analysis. Colorimetry: Visual and Photoelectric methods, Instrumentation, Principle & laws involved construction , operation , care and maintenance, applications. Spectrophotometry: Principle and theory, types ,construction & applications
    5. Basic lab operations like, Separation of solids from liquids Centrifugation: Principle, Different types of centrifuges, care & maintenance and applications Filtration using funnel Weighing: Different types of balances used, care and maintenance Evaporation Distillation Refluxing Drying different salts and desiccation Water Chemicals and related substances Purity of chemicals Corrosives Hygroscopic substances Prevention , safety and FIRST AID in lab accidents. Collection of Specimens.

Blood: Type of Specimens, collection, Precautions during collection Processing and precautions

Urine: Types of Specimens, collection, precautions during collection Processing and precautions

Urine Biochemical Parameters Units Of Measurements

Solutions: Types ,based on solute & solvent, Types based on method Of expressing concentration and calculation Carbohydrates: Definition, Biological Importance, Acid Value, Iodine

Value ,Saponification value.

Amino acids & Proteins: Definition, Biological Diagnostic Tests: Blood Sugar, Glucose Tolerance Test, Blood Urea, Serum acid and serum creatinine

Vitamins & Minerals:

Vitamins: Water Soluble Vitamins, Fat Soluble

Vitamins, Sources, Daily Requirements, Deficiency Diseases.

Minerals: Sources, Daily Requirements, Deficiency Diseases.

## **REFERENCE BOOKS:**

1. Text Book on Bio-Chemistry for DMLT & Paramedical courses – Dr . I Clement
2. Biochemistry - U satyanarayana
3. Concise Text Book of Biochemistry -DM Vasudevan
4. Basics of Clinical Biochemistry & Instrumentation For Para medical Students – Poonam Baccheti
5. A Text Book on Biochemistry for Paramedical Students -Dr. Kiran Dahiya
6. A Text Book of Medical Biochemistry – Dr. Rajagopal Ganapathy
7. Biochemistry & Clinical pathology 4th edition – VN Raje
8. Text Book of Biochemistry for Paramedical Students 2nd edition- PRamamoorthy
9. Biochemistry for Medical Laboratory Technology Students – Harbansand ashuma Sachdeva
10. Text Book of Applied Biochemistry and Nutrition & Dietetics – Harbans lal

## **Part D : Basics Of Bio-Statistics**

1. Introduction & Branches of Biostatistics
2. Types of variables, Measurements and measurement scales
3. Fundamentals of Biostatistics ( Sample, Population, Variable)
4. Importance of Biostatistics in paramedical sciences
5. Methods of statistical analysis
6. Basics statistical concepts and data interpretation are discussed in the Subject ( mean , median , mode )
7. The characteristics of Biostatistics & its importance
8. Measurement of Distribution( Range, Variance & Standard Distribution)
9. Graphical methods to depict Data( histograms, bar-plots, pie charts, line Graph)

## **Reference**

1. Biostatistics for medical & nursing students – C.S. Agrawal
2. A text Book of biostatistics – Vinod Kumar
3. Research methodology 7 Biostatistics – Vinod kumar
4. Biomedical Statistics – a beginners Guide – shakti kumar Yadav
5. Fundamentals of biostatistics – khan & Khanum

# Paper-I

## A. Skeletal system

(a)Bones – Types

(b)Joints

Muscular System

Names of different muscles and its location

Cardio Vascular System

Structure of heart & position

Blood – Composition, clotting & grouping

Blood Vessels – structure & position

Blood pressure & pulse rate

Digestive System

Digestive organs – junctions, location Physiology of digestion Exocrine glands.

Respiratory System

Organs of respiration – location; function External & Internal Respiration.

Anatomy & physiology (part II)

Excretory system

Structure & function of excretory organs

Nervous system

Structure of PNS, CNS, ANS

Structure of Neuron & physiology

Endocrine system

Site, function of pituitary, thyroid parathyroid, adrenal

Feed back mechanism

Hormones of each glands & their function

Sense Organs

Structure & function of Eye, Ear, Nose & skin

Reproductive system

Male reproductive Organs, Structure & function

Female reproductive Organs, structure function

## **B. Sources of infection**

ingestion

- Inhalation
- Contact
- Mucus membrane
- Congenital Transmission of factors
- Throat, nose, urine wounds, discharges.

Practicals ----- Skeletal System ----- Identification of bones.

The Basic structure of active micro – organism size, reproduction, factor influencing growth pathogenic and non – pathogenic organism common diseases caused by different types of Micro – Organism.

Control and destruction of Micro – organism

Principles and methods of microbial control

Sterilization – dry heat, moist heat and chemicals

Disinfections

Medical / surgical asepsis

Cross – infection

Control of spread of infection

## **Reference Books:**

1. Anatomy & Physiology – Wadiya
2. Human Body skeletal & Muscular system

3. Essentials of Physiology for paramedical students- K Sembulingam
4. Introduction for Paramedical Students- Reena Kaur Rupral
5. B D Chaurasia's Human Anatomy
6. Hand book of Osteology-Ajay Bhagat

### **Practical Paper-1**

1. Study of compound microscope
2. Microscopic study of epithelial, connective, muscular and nervous tissues
3. Determination of bleeding time
4. Determination of clotting time
5. Determination of blood group
6. Determination of heart rate and pulse rate
7. Recording of blood pressure
8. Determination of ESR (erythrocytes sedimentation rate)
9. Qualitative analysis of carbohydrates (glucose, fructose, lactose, maltose, sucrose and starch)
10. Identification test for proteins (albumin and casein)
11. Quantitative analysis of reducing sugars DNS method and biurette method
12. Qualitative analysis of Urine for abnormal constituents
13. Determination of Blood Creatinine
14. Determination of Blood sugar
15. Determination of Serum Cholesterol
16. Preparation of Buffer solution and measurement of pH
17. Determination of enzymatic hydrolysis of starch
18. Determination of salivary amylase activity

19. Identification of Different types of

A. Joints B. Ligaments and Tendons

20. Identify the Age of bone 21. To identify the axial and appendicular skeleton

22. TO recognize cranial and facial bones

23. To identify joints or articulations and movement allowed

24. To observe types of bones Long , Flat ,Sesamoid and Irregular

## **Paper-II**

### **Basics of Pathology**

**Introduction** to Pathology in brief

1. Urine – Analysis – a. Physical Examination – specific gravity PH, reaction, Colour.

b. Chemical Examination – Sugar Albumin, Bile salts, Bile Pigments etc.

c. Microscopic, d. Sediment for RBC, WBC, Epithelial cells, Casts, Crystals,

Parasites. Preparation of Reagents, procedure and principle of tests.

2. Sputum Analysis – Physical Examination, Preparation and staining smear for Microscopic Examination.

3. Semen Analysis – Physical Examination Microscopy – counting, Motility, Staining. Morphology. Abnormal and normal forms.

4. Body Fluids – Differential count of Peritoneal, pericardial, pleural fluids & CSF, charging chamber, Identifying and counting the cells.

### **Reference Books:**

1. Text Book on Pathology – Dr . I Clement

2. Pathology for paramedical students & health sciences -Ramnik sood

3. Text Book of Pathology & genetics – Rimpi Bansal

4. Histopathology – Aruna Singh

5. Text Book of pathology for allied health sciences – Ramadas Nayak

## **Part B : Basic Of Blood Banking**

1. History of blood banking , To study evolution of different blood groups.
2. Blood grouping, typing and complement system , To study basics of different blood groups& complement system
3. Identification of antibodies and antibody screening , To identify various antibodies in blood group systems & methods of screening antibodies
4. Various blood components and their functions , To have knowledge of blood components and their functions and uses
5. Coagulation and hemostasis , To know basics of coagulation pathways and hemostasis
6. Immune hemolytic anaemias and Hemolytic disease of newborn , To know types of hemolytic anaemias along with details of hemolytic disease of newborn
7. Cross matching & compatibility testing , To know major & minor cross matching and compatibility testing
8. Donor selection , To know criteria of selection of donor
9. Pre-transfusion serologic testing , To know different tests used for pre transfusion serologic testing
10. Donor recruitment, phlebotomy and Donor reactions , To know how to perform phlebotomy and different donor reactions
11. Adverse blood transfusion reactions , To have complete knowledge of adverse blood transfusion reactions
12. Investigations of transfusion reactions , To know how to investigate a blood transfusion reaction
13. Apheresis , To know what is apheresis & its importance
14. Preparation and storage of blood components and their uses , To know procedure
15. Record keeping, quality control and blood bank Inspections , To know importance of record keeping & preparation for inspection of blood banks according to the protocol
16. Guidelines for safe blood transfusion , To know the guidelines for safe blood transfusions
17. Safety procedures in blood banking , To know the safety procedures in blood banking to avoid serious hazards



18. Safe storage and transportation of blood and its components , To know how to store components, procedure for transportation of blood components
19. Safe disposal of lab waste in blood bank , To know in detail how to dispose lab waste in blood bank and its importance
20. Medicolegal aspects of blood banking , To know the importance of blood banking from medico-legal point of view
21. Administration of blood bank , To know different ways of administration in a blood bank ,
22. Management of donor reactions in Blood donation camp , To enumerate steps in management of reactions in donor at camp site
23. Component preparation , To observe various steps in procedure for component preparation & enumerate them
24. Investigating a transfusion reaction , To enumerate various steps in investigating a transfusion ,reaction
25. Conduction of blood donation camp , Toper form MOCK conduction of blood donation camp & later attend a blood donation camp
26. Documentation in blood bank , To write down all the steps point wise on various documents required in blood bank and updation of these.

### **Reference Books:**

1. Essentials of blood banking – SR Mehdi
2. Standard operating procedures and regulatory guidelines blood banking Singal
3. Blood banking and transfusion practices – Paula R. Howard
4. Blood banking and transfusion medicine basic principles & Practice – Hillyer
5. Essentials of blood banking and transfusion medicine – Ganga S Pilli

## **Part C : Basics Of Microbiology**

### **Basics of Microbiology**

1. Introduction to Microbiology in brief : Definition, History
2. Microscopy

a) Principle working and maintenance of compound Microscope.

b) Principle of Fluorescent microscope, Electron Microscope, Dark Ground Microscope.

History : Types of Microscope: (a) Light Microscope, (b) DGI, (c) Fluorescent, (d) Phase contrast. (e) Electron Microscope: a). Transmission, b) Scanning, Principles of operational mechanisms of various types of Microscopes.

3. Sterilization and disinfection - classification and Methods of sterilization. Sterilization: Definition, types and principles of sterilization methods: (a) Heat (dry heat, moist heat with special reference to autoclave, (b) Radiation, (c) Filtration, efficiency Antiseptics and Disinfectants: Definition, types and properties, mode of action, uses of various disinfectants, precautions while using the disinfectants, qualities of a good disinfectants, testing efficiency of various disinfectants. 1) Principle and Methods of sterilization by heat

a) By Dry Heat, flaming, Red Heat, Hot air oven, incineration.

b) By Moist Heat-pasteurization, Inspissation, tyndalisation, autoclave.

2) Filtration Methods

3) Ionising Radiation - Disinfection, Mode of action and uses of important chemical disinfectants - Phenol and Phenolic compounds, alcohols, halogens, dyes and acids and alkalies.

4) Gaseous Methods of sterilization.

IV. Cleaning, drying & Sterilization of Glassware disposal of contaminated material i.e. clinical infective material inoculated culture media. Handling and Disposal of Biomedical waste.

V. Biomedical waste management in a Microbiology Laboratory: types of the waste generated, segregation, treatment, disposal.

VI. Morphology and classification of Bacteria Sp. of cell, capsule, flagella, spore, Anaerobic Methods of cultivation of Bacteria.

### **Reference Books :**

1. Text Book Of Microbiology for paramedical students – Auju Dhir

2. Text Book of Microbiology for DMLT Students & Paramedical students – Dr. I Clement

3. Text Book of Microbiology – Dr. Arora

## **Paper II - Practicals :**

1. Urine – Analysis – a. Physical Examination – specific gravity PH, reaction, Colour.
2. Chemical Examination – Sugar Albumin, Bile salts, Bile Pigments etc.
- c. Microscopic,
3. Sediment for RBC, WBC, Epithelial cells, Casts, Crystals, Parasites.
4. Sputum Analysis – Physical Examination, Preparation and staining smear for Microscopic examination
5. Semen Analysis – Physical Examination Microscopy – counting, Motility, Staining. Morphology. Abnormal and normal forms.
6. Body Fluids – Differential count of Peritoneal, pericardial, pleural fluids & CSF, Charging chamber , Identify and counting the cells
7. Blood Grouping and typing
8. Pre-transfusion serologic testing
9. Preparation and storage of blood components and their uses
10. Principles of sterilization methods ( Autoclave, Filtration , Hot air oven , Incineration, flaming & Radiation)
11. Introduction to experimental pharmacology
12. Study of different route of drug administration
13. Effect of drugs on ciliary motility of frog oesophagus
14. Effects of drugs on Rabbit Eye
15. Study of Drugs on locomotor activity using actophotometer
16. Study of stereotype antiepileptic activity of drugs on Rat / Mice

## **Paper-III**

### **A. Hospital Awareness**

A brief idea of hospital as an organization management different units of a hospital effective communication skills, communication channel

Maintenance of records

Effective leadership

General patient care

Medical terminologies

Vital signs

Unit preparation

Transporting & Transferring patients

Sterilization Techniques

Control of infection

Medication-Oral & parenteral

Admission-Discharge procedure

Bandages

**Practicals:** Posted in ward & taught clinically

A. Surgical Department

Familiarization of different tubes

1. Drainage tube

2. Post Operative Exercises

3. Post OP Management of Patient

4. Shock of Management

5. Changing Surgical Dressing.

1. Preoperative preparation of patient

2. Preanesthetic preparation

3. Assisting in operation

4. Anaesthesia

5. CSSD

1. Recovery room

2. Movement of papers
3. Scheduling of theatres
4. Supplying of articles
- 5 Specific area practices

As scrubnurse, As circulating nurse

Communication and Computer Skills, Audio & Visual Aids

## **COMMUNICATION**

Process, Types of communication, Strategies for effective Communication

Barriers of communication

## **SOFT SKILLS**

Presentation with the use of visual aids such as power point Conversation Extempore speech, usage of effective language for communication of health work. Case studies and situational analysis, Survey and Reporting

## **COMPUTER**

INTERNET CONCEPTS: Computer : basic MS-Office MS-Word, MS-Excel, MS-Power

Paint, Browsing, Down-Loading, Use Projector of Slide Projector

## **Reference Books:**

1. Hospital administration and management – joyfeep Das Gupta
2. Hospital administration – DC Joshi
3. A handbook for understanding hospital services – mishra & kaushik
4. Hospital and patient care management – Dr. Vidhta srinivasan
5. Principles of hospital administration & planning

## **Part- C: Patient Related Services**

## **1. Introduction**

1. Information Management in Patient Care.
2. Concept of Patient Care.
3. Information to Support Patient Care.
4. Historical Evolution
5. Society and Influences
6. Professional practice model
7. Techniques of Patient Care.
8. Development & Innovative implementation of patient Care.
9. Types, functions, Uses pr Patients & Hospitals

## **Reference Books:**

1. Principles of hospital practice and patient care – P Srinivasulu Reddy
2. Patient care technician – kimberly townsend little
3. Hospital supporting services and systems- Dr. M. A. George

## **Part D: Basics of central sterilization**

1. Introduction of sterilization
2. Functions of Sterilization
3. Types of Sterilization
4. Classification of Sterilization
5. Advantages & Disadvantages
6. Details of CSSD& its function & activity
7. Activities Reference Books:
  2. Disinfection , sterilization and preservation
  3. Instrumentation and control systems – Y J Reddy

4. Hand book of biomedical instrumentation – R S Khandpur
5. Biomedical waste disposal – jaypee
6. Sterile processing – karen davis

## **Paper-III**

### **1) Bio Medical**

Basic Electricity – Voltage, Current

Power, Ohms law definition Resistance

Capacitance, Inductance, Electronic Emission

Resistors

Capacitors

Inductor, Diode

Transistor

Semi conductor – types

Amplifiers

Fuses – types, selections.

### **B. Physical Examination**

Vital Signs

General Inspection

Eye Examination

ENT Examination

Neck

Cervical Nodes

- External Jugular Vein

- Thyroid
- Axillary Node
- Breast
- Thorax Lungs
- Heart Sound
- Abdomen
- Neurologic Exam

## **F. Cardiac Procedures**

Cardio pulmonary resuscitation – Cardiac pacing

ECG monitoring / Bed side monitor

## **G. Digestive**

Intermittent

Administration of nasogastric tube feeding Total parental nutrition – Hyper Continuous

Alimentat Diabetes – Insulin injection,

Glucometer

## **H. Neurological**

1. Assisting a patient with Paraplegia

Hemiplegia/Positioning Exercises.

2. Assisting a patient with increasing

intracranial pressure/ Observation

## **I. Urinary**

Technique for obtaining clean – catch midstream voided, specimen Male & Female – Catheterization. Intake / Output charting. Recording & Reporting. Specialty

Special areas learning :

1. Hand washing Techniques



2. Gown techniques
3. Sterilization of Operation theater
4. Setting up of OT
5. Supplying of articles

#### Introduction to Immunology

- a. Brief outline of immunity
- b. What are antigens
- c. What are antibodies
- d. Different types of antigen and antibody reaction their application in the diagnosis – agglutination precipitation complement fixation, neutralization,RIA.
- e. Principle and method of ELISA test.

#### **PRACTICALS:**

1. Monitoring of vital signs, Spo2
2. ABG analysis
3. Types of Anesthesia required for different types of surgeries
4. A regular check of cannula and drains
5. Maintain records and reports
6. Transportation of patient to SICU
7. Suctioning of Endotracheal tube / Tracheostomy tube
8. After care of equipment
9. Mechanical ventilation – Settings and modes

#### **Reference Books:**

1. Biomedical Electronics and Instrumentation – G. S. Sawhney
2. Basic Course in Biomedical Research – Tanmay Mehta

3. Introduction to Biomedical Equipment Technology- John M. Brown
4. A Text Book of Biomedical Laboratory Techniques – P. Venkatesham

### **Paper III – Practical:**

1. General patient care and maintainance of records
2. Control of infection
3. Changing surgical dressing
4. Preoperative preparation of patient
5. Preanesthetic preparation
6. Historical evolution in patient services
7. Techniques of patient care
8. Blood pressure measurement using sphygmomanometer
9. Study of Phonocardiogram (PCG)

### **Lab equipment:**

Electro-medical/electrosurgical





**OTLightsCardiacMonitors,**















# RV Institute of Paramedical Sciences College

**Chairman/Director  
Correspondent & Secretary**

**Dr. Sangeetha Pawar  
W/o Dr. Subhash Pawar**

**1-75/5/360A Plot No 8**

**Sai Bhavani Nagar Boduppall**

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2. **Admission Helpline - 040 49534410,8074507008,8008297414,9701270981**

3. **Route Map :-**

