**Sri Manakula Vinayagar Medical College & Hospital**

**Department of Biochemistry**

**MD Biochemistry**

**PG – Schedule (August 21 to May 2022)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Month** | **Thesis**  | **Theory Discussion** | **Practical Discussion** |
| **1.** | August – I week | Proposal write-up | Chromatography | Chromatography |
| **2.** | August – II week | Proposal write-up | Electrophoresis | Electrophoresis |
| **3.** | August – III week | Proposal write-up | Colorimetry | Estimation of glucose |
| **4.** | August – IV week | Proposal write-up | Centrifugation | Estimation of Urea |
| **5.** | September – I week | Proposal Submission to Research Committee | Ion Selective Electrodes | Estimation of Creatinine |
| **6.** | September – II week |  | Mass Spectrometry | Estimation of Total protein |
| **7.** | September – III week |  | Spectrophotometry | Estimation of Albumin |
| **8.** | September – IV week | Proposal Submission to Ethical Committee | Nephelometry | Estimation of Cholesterol |
| **9.** | October - I week |  | Turbidimetry | Estimation of HDL |
| **10.** | October - II week |  | Chemiluminescence | Estimation of AST & ALT |
| **11.** | October - III week |  | Radio Immuno Assay | Estimation of Amylase |
| **12.** | October - IV week |  | ELISA | Estimation of Calcium |
| **13.** | November - I week |  | Monoclonal Antibody production | Estimation of Phosphorous |
| **14.** | November - II week |  | Recombinant DNA Technology | Estimation of Total & Direct Bilirubin |
| **15.** | November - III week |  | Polymerase Chain Reaction | Electrophoresis |
| **16.** | November - IV week |  | RFLP, Biosensors | Chromatography |
| **17.** | December – I week | Sample Collection | Blotting Techniques | Reactions of Carbohydrates |
| **18.** | December – II week |  | **Term Exam** | **Term Exam** |
| **19.** | December – III week |  | Biomolecules, Cell Biology | Electrophoresis |
| **20.** | December – IV week |  | Biostatistics | Chromatography |
| **21.** | January – I week |  | Enzymes, Nutrition | Reactions of Proteins |
| **22.** | January – II week |  | Vitamins | Analysis of Normal Urine |
| **23.** | January – III week |  | Minerals | Electrophoresis |
| **24.** | January – IV week |  | Xenobiotics, Free Radicals | Chromatography |
| **25.** | February – I week | Sample Processing | Carbohydrate Metabolsim | Analysis of Abnormal Urine |
| **26.** | February – II week |  | Lipid Metabolism | Estimation of glucose |
| **27.** | February – III week |  | Protein Metabolism | Electrophoresis |
| **28.** | February – IV week |  | NA Metabolism | Chromatography |
| **29.** | March – I week |  | Immunology | Estimation of Urea |
| **30.** | March – II week |  | Basics of Bioinformatics | Estimation of Creatinine |
| **31.** | March – III week |  | CVS, RS, GIT | Electrophoresis |
| **32.** | March – IV week |  | Liver, Bones | Chromatography |
| **33.** | April – I week |  | Molecular Biology | Estimation of Total protein |
| **34.** | April – II week |  | Molecular Biology | Estimation of Albumin |
| **35.** | April – III week |  | Molecular Biology | Electrophoresis |
| **36.** | April – IV week |  | Hematopoietic Disorders,  | Chromatography |
| **37.** | May – I week |  | Basic Principles & Practice of Clinical Biochemistry | Estimation of Cholesterol |
| **38.** | May – II week |  | Basic Principles & Practice of Clinical Biochemistry | Estimation of HDL |
| **39.** | May – III week |  | Endocrinology | Electrophoresis |

 **Professor & Head**

**Department of Biochemistry**