**COURSE OUTCOMES**

**B. Voc. Medical Lab Technology IInd year**

**Semester- III**

**Subject: Biochemistry III (Theory & Practical)**

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| **Co1** | Describe the principles and working of several instruments used in analytical biochemistry |
| **Co2**. | Understand the application of PCR, RIA in analytical biochemistry |
| **Co3** | Understand the application ELISA and coulter counter in analytical biochemistry |

**Subject: Microbiology1II (Theory & Practical)**

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| **CO1**. | Familiarize with the identification of bacteria and fungi |
| **CO2.** | Define and life cycle of virus |
| **CO3**. | Describe the concept of staining methods of microorganisms |

**Subject: Pathology1II (Theory & Practical)**

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| **Co1** | Describe the general properties of cells |
| **Co2** | Understand the concept of gametogenesis and tissues |
| **Co3** | preparation of several types of strains |

**Subject: Hematology III (Theory & Practical)**

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| **Co**1. | Understand the concept of ESR and iis determination |
| **Co2**. | Familiarize with several types of blood systems and synthesis of haemoglobin |
| **Co3**. | Understand the concept of immunology and role of several body cells in the prevention of diseases |

**CREDITS- 3 THEORY PERIODS OF EACH PAPER OF 45 MINUTES EACH PER WEEK OVER A SEMESTER**

**6 PRACTICAL PERIODS OF 45 MINUTES EACH PER WEEK OVER A SEMESTER**

**B. Voc. Medical Lab Technology 2nd year**

**Semester- IV**

**Subject: Biochemistry 1V (Theory & Practical)**

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| **Co1** | Acquaint with the metabolism of several nutrients and practical knowledge of various assay procedures for the identification of these nutrients. |
| **Co2**. | Knowledge of acid base test |
| **Co3** | Collection and preservation of biological fluids |

**Subject: Microbiology1V(Theory & Practical)**

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| **Co1** | Practical knowledge of procedures used in the isolation of microorganisms |
| **Co2**. | Understand the concept of preservation of microbes |
| **Co3** | Different staining and cultivation methods used in virology |

**Subject: Pathology1V(Theory & Practical)**

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| **Co1** | Familiarize with the role of cytochemistry |
| **Co2** | Familiarize with the role of cytopathology |
| **Co3** | Familiarize with the role of cytology |

**Subject: Hematology IV(Theory & Practical)**

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| **Co**1. | Understand the theory of blood coagulation |
| **Co2**. | Assesment of blood coagulation |
| **Co3**. | Knowledge of thrombocytopenia, platelet function test |

**CREDITS- 3 THEORY PERIODS OF EACH PAPER OF 45 MINUTES EACH PER WEEK OVER A SEMESTER**

**6 PRACTICAL PERIODS OF 45 MINUTES EACH PER WEEK OVER A SEMESTER**