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**Department of Physiotherapy & Paramedical
Sciences**

Malwanchal University, Indore

PROGRAM OUTCOMES OF BMLT	
PO1	Apply knowledge and technical skills associated with medical laboratory technology for delivering quality clinical investigations support.
PO2	Perform routine clinical laboratory procedures within acceptable quality control parameters in haematology, biochemistry, immunohematology and microbiology
PO3	Demonstrate technical skills, social behaviour and professional awareness for functioning effectively as a laboratory technician.
PO4	Apply problem solving techniques in identification and correction of pre analytical, post analytical & analytical variables.
PO5	Operate and maintain laboratory

PROGRAM SPECIFIC OUTCOMES	
PSO 1	Understand normal ranges/values for all common hematology/Biochemical parameters and their clinical significance.
PSO 2	Medical laboratory program is to prepare professionals to demonstrate the highest quality of technical and clinical competencies in serving their patients and the laboratory profession.
PSO 3	Perform routine tissue processing and freeze drying technique in histopathology. Perform various staining techniques to identify premalignant or malignant condition.
PSO 4	Demonstrate technical skills, social behavior and professional awareness for functioning effectively as a laboratory technician.
PSO 5	Explain principle, rationale uses and interpretation of routine biochemical tests for organism identification. Demonstrate proficient use of routine biochemical tests.
PSO 6	Have Knowledge and technical skills associated with medical laboratory technology for delivering quality clinical investigations.



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Department of Physiotherapy & Paramedical Sciences

Malwanchal University, Indore

BMLT 1ST YEAR

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Basic Principle of Biochemistry
Course code	BMT- 101
Course learning outcome –	
CO1	After the completion of this topic, students shall be able to understand the determination of cultural media
CO2	Students shall be able to handling the laboratory animals
CO3	Students shall be capable to determine the medical virology

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Microbiology
Course code	BMT- 102
Course learning outcome –	
CO1	After the completion of this topic, students shall be able to understand the use of different laboratory instrument
CO2	Students shall be able to characteristics of virus
CO3	Students shall be capable to determine the antibody reaction

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Haematology
Course code	BMT- 103
Course learning outcome –	
CO1	After the completion of this topic, students shall be able to understand the use of physiological variations
CO2	Students shall be able to characteristics of haematocytometry
CO3	Students shall be capable to determine the absolute values in haemoglobin

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Microbiology
Course code	BMT- 104
Course learning outcome –	
CO1	Get detailed information about the host, parasite, their life cycle and various diseases caused by them.
CO2	Prepare various culture media, Care & handling of laboratory animals and get their extracts for culture preparation
CO3	Care and handling of glassware, their use and cleaning techniques, sterilization processes



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Department of Physiotherapy & Paramedical Sciences

Malwanchal University, Indore

BMLT 2ND Yr

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Cellular pathology
Course code	BMT- 201
Course learning outcome –	
CO1	After the completion of this topic, students shall be able to understand the determination of different types of body tissues
CO2	Students shall be able to perform the test in cytology screening
CO3	Students shall be capable to determine the function of the respiratory system

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Identification of bacteria
Course code	BMT- 202
Course learning outcome –	
CO1	After the completion of this topic, students shall be able to understand the determination of pathogenesis and virology
CO2	Students shall be able to perform the test in laboratory
CO3	Students shall be capable to determine the anti microbiology testing

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Analytical biochemistry
Course code	BMT- 203
Course learning outcome –	
CO1	After the completion of this topic, students shall be able to understand the different types of glass ware and composition
CO2	Students shall be able to perform the ELISA test
CO3	Students shall be capable to determine the colorimeter

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Haematology
Course code	BMT- 204
Course learning outcome –	
CO1	After the completion of this topic, students shall be able to understand the determination of compatibility test in blood abnormal haemoglobin
CO2	Students shall be able to perform the test in laboratory
CO3	Students shall be capable to determine the tools



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Malwanchal University, Indore

BMLT 3RD Yr

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Applied histology
Course code	BMT- 301
Course learning outcome –	
CO1	After the completion of this topic, students shall be able to understand the determination of different types of histological specimens
CO2	Students shall be able to perform the test in urine to identification of different types of pregnancy test
CO3	Students shall be capable to determine the allergy

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Applied microbiology
Course code	BMT- 302
Course learning outcome –	
CO1	After the completion of this topic, students shall be able to understand the determination of different bacterial examination
CO2	Students shall be able to perform the test in urine to identification of different types of toxin antitoxin assay
CO3	Students shall be capable to determine the serological test

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Applied biochemistry
Course code	BMT- 303
Course learning outcome –	
CO1	After the completion of this topic, students shall be able to understand the different types of
CO2	Students shall be able to perform the test in biochemistry to identification of different types of biological material
CO3	Students shall be capable to determine the glucose tolerance test

Name of the program	Bachelor in Medical Lab Technician
Name of the course	Applied Haematology
Course code	BMT- 304
Course learning outcome –	
CO1	After the completion of this topic, students shall be able to understand the determination of different types of laboratory investigations
CO2	Students shall be able to perform the test in biochemistry to identification of different types of cytogenic studies
CO3	Students shall be capable to determine the safety measures for handling radio isotopes