



YENEPOYA

(DEEMED TO BE UNIVERSITY)

Recognized under Sec 3(A) of the UGC Act 1956

Accredited by NAAC with 'A' Grade

**YENEPOYA INSTITUTE OF ALLIED
HEALTH SCIENCES**

**PROGRAM AND COURSE OUTCOMES
POSTGRADUATES PROGRAM
MASTER OF SCIENCE
MEDICAL LABORATORY TECHNOLOGY**

ATTESTED 

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PROGRAM OUTCOMES
POSTGRADUATE PROGRAM
MASTER OF SCIENCE
MEDICAL LABORATORY TECHNOLOGY

(K=Knowledge, S=Skill, A=Attitude)

- PO 1 Supervise/Perform routine Haematological and Immuno-haematological laboratory testing (K.S.A)
- PO 2 Make specimen oriented decision on predetermined criteria including working knowledge of critical values. (K)
- PO 3 Communicate with other members of healthcare team, customers and patients in an effective manner. (K.S.A)
- PO 4 Process information and ensure quality control as appropriate to routine laboratory. (K.S.A)
- PO 5 Train students in routine/special laboratory procedure. (K.S.A)
- PO 6 Upgrade knowledge and skills in a changing healthcare scenario.(K.S.A)
- PO 7 Should know the logical interpretation of clinical lab investigations. (K.S.A)
- PO 8 Should be capable to extrapolate data acquired (K.S)
- PO 9 Should be capable of supervise / guide the staff working on automated machine(K.S.A)
- PO 10 Should be capable of teaching, proposing/executing research project (K.S.A)

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COURSE OUTCOMES
POSTGRADUATE PROGRAM
MASTER OF SCIENCE
MEDICAL LABORATORY TECHNOLOGY

1ST SEMESTER

	CO	Course Description
Haematology 1	CO 1	Understanding of haematopoiesis and various cellular elements of bone marrow.
	CO 2	Understanding physiology of coagulation and discuss haemostatic disorders.
Blood Banking 1	CO 1	Ability to recognize and understand basis blood bank procedure, blood collection, donor selection, storage and processing of blood, including recent advances.
	CO 2	Understanding of transfusion reactions and describe the Immunopathology of same.
Clinical Pathology	CO 1	Understanding of appropriate methods of sample collection, transportation, preservation, and processing of various body fluids
	CO 2	Ability to lists and understand renal function tests.
Biomedical Research And biostatics	CO 1	To Understand Statistical Terms.
	CO 2	To Possess Knowledge and Skill in the use of Basic Statistical and Research Methodology.

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2nd SEMESTER

	CO	Course Description
Haematology II	CO 1	Understanding of normal and abnormal forms of RBC and WBC
	CO 2	Understanding pathophysiology, management and treatment of Nutritional Anaemia, aplastic anaemia and haemolytic anaemia.
	CO 3	Understanding pathophysiology, management and treatment of Leukaemia's, myeloproliferative disorders and lymphomas.
	CO 4	Discuss approach to plasma cell dyscrasia
Biochemistry, immunology Microbiology, Cytology and Histopathology	CO 1	Understanding of various histopathological techniques to prepare sections for microscopy
	CO 2	Understanding special biochemical investigations; LFT and RFT
	CO 3	Impact knowledge about sterilization and different tests required to diagnose transmission of transmissible diseases and also covers the basics aspects of immunity and autoimmune diseases

3RD SEMESTER

	CO	Course Description
Blood banking II	CO 1	Understanding of blood grouping, cross matching and coomb's tests under following, procedure, principles and indications.
	CO 2	Ability to recognize and understanding of indication, preparation of blood components and indications of blood transfusion
	CO 3	Understanding of Rh incompatibility, hemolytic disease of newborn, exchange transfusion and transfusion transmitted diseases
Cytogenetic, HIV/AIDS, Immunopathology,	CO 1	Knowledge of chromosomal abnormalities and different technique to find out chromosomal abnormalities

Automation in Haematology	CO 2	Understanding of the various immune diseases their etiology ,causes ,diagnosis and prognosis
	CO 3	Knowledge of the various automated instruments in haematology
Health care Management	CO 1	Concepts of Hospitals – Students will gain Knowledge about hospital administration &planning.
	CO 2	Workflow in hospitals - Enumerate and identify various Clinical Services like OPD, IPD, ward Management, OT, Emergency, disaster Management and ICU.
	CO 3	Organizational Structures – To Learn to meet special challenges posed by human behavior in workplace of 21stcentury
	CO 4	Quality management – To create an awareness about the process of applying for and implementing various accreditation process in healthcare facilities

4TH SEMESTER

	CO	Course Description
Haematology III	CO 1	Knowledge of different coagulation disorders and platelet disorders.
	CO 2	Knowledge of anticoagulants and their applied aspect.
Blood Banking III	CO 1	Understanding of hemapherisis and GVHD. .
	CO 2	Knowledge of the medico-legal aspects of blood banking, stem cell banking and biomedical waste management in blood bank

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