PARAMEDICAL SCIENCES								
B.Sc. MLT								
PROGRAMME OUTCOME	C	COURSE NAME	COURSE OUTCOME					
Upon successful completion of the degree in Medical Laboratory Technician, the student should be able to:	1.	General pathology	Demonstrate an understanding of essential basic pathological processes including cell death and injury, inflammation, thrombosis and neoplasia.					
 Perform routine clinical laboratory procedures w acceptable quality control parameters in Hemato Biochemistry, Immunohematology, Cytopatholo Histopathology, Blood transfusion and Microbio under the general supervision of a Clinical Labo Scientist or Pathologist. The student will be able to explain the basic nature 	vithin 2. ology, ology oratory ure of	General Microbiology and Immunology	At the end of the course students should know the prokaryotic cell structure, develop basic skill in aseptic techniques, sterilization technique. Perform various staining techniques, Cultivate bacteria with different cultivation technique. They know the concepts of immune system and they determine various serological parameters and procedures, understand immune responses or to suppress unwanted immune responses such as might be required in humaroancitivity reactions.					
 disease processes from the standpoint of causati epidemiology, natural history, and the structural functional abnormalities that result. Demonstrate technical skills, social behavior, and 	ion, and 3.	General Biochemistry	At the end of the course the student should know the structures and functions of biomolecules, their relations that form the basis of what we understand to be living organisms and know the experiment, research related to them.					
 Demonstrate teennear skins, social behavior, and professional awareness incumbent upon a labora technician. Effect a transition of information and experience 	atory 4.	Anatomy & Physiology	At the end of the course student should know in depth Anatomy and physiology of the nervous, musculoskeletal, respiratory, and cardiovascular, excretory, endocrine and reproductive systems from a regional perspective.					
learned in the MLT program to employment situ and performance on the written examinations co by the Swami Vivekanand Subharti University.	ations 5.	Computational skills & Biostatistics	At the end of the course student should demonstrate computational skills and understanding of the central concepts of modern statistical theory and their probabilistic foundation.					
Apply systematized problem solving techniques identify and correct procedural errors, identify instrument malfunctions and seek proper supervise assistance, and verify the accuracy of laboratory	s to 6. risory results	English and Soft skills	Liaise with native speakers of English in the medical profession, converse confidently with the general public. Produce clearer written documents, able to empathize and/or sympathize with the difficult situations faced by others, communicate well with patients and colleagues is vital.					

	obtained.	7.	Histopathology	Able to explain normal and abnormal human cell, tissue and organ
			and	structure; by using different Cytological & histopathological
*	Operate and maintain laboratory equipment, utilizing		Cytopathology	procedures. Outline safe laboratory practices as well as the
	appropriate quality control and safety			professional and ethical responsibilities associated with working in
	procedures. Recognize and participate in activities which			a clinical histology or cytology laboratory
	will provide current knowledge and upgrading of skills	8.	Bacteriology,	The students should able to identify common pathogenic
	in laboratory medicine.		Virology and	bacterial, Viral and fungal agents and the diseases that they cause,
			Mycology	their general and specific mechanisms by which bacteria causes
			v 80	disease their epidemiology of infectious agents including how
				infectious diseases are transmitted and explain interventions
				employed to prevent Bacterial, viral and fungal diseases including
				infection control measure and vaccines.
		9.	Analytical	At the end of the course student should know the principle,
			Biochemistry	biochemistry and pathophysiology associated with tests performed
			v	in a clinical biochemistry laboratory and analytical instruments.
		10. Molecular Cell		At the end of the course students should explain genome
			Biology	organization in higher organisms, kinetic classes of DNA and Gene
				families, steps involved in recombinant DNA technology.
				Demonstrate practical skills used in molecular biotechnology such
				as PCR and molecular cloning and obtain and evaluate information
				on a current topic in molecular biology and communicate this
				analysis in writing.
		11	. Medical	The student will be able to develop understanding of the patterns
			Biotechnology	of inheritance and clinical manifestations of genetic diseases;
				chromosomes, chromosomal abnormalities, and the clinical
				features of common chromosomal disorders; population genetics;
				inborn errors of metabolism; and inherited cancer syndromes,
				genetic testing and screening.

12. Parasitology and Clinical Microbiology	The students should able to identify common pathogenic parasitic agents and the diseases that they cause, their general and specific mechanisms by which parasite causes disease. able to perform diagnostic skills by using basic and advanced diagnostic exercises using microscopy etc, apply appropriate microbiology laboratory techniques, methodologies, instruments and equipment in accordance with current laboratory safety protocol. And calculate, record, and report clinical microbiology results/reports according to clinical laboratory protocol.
13. Clinical Biochemistry	Professionally apply biochemical tests to health problems and explain their clinical significance in the assessment of lipid, purine and carbohydrate metabolism, in the assessment of kidney, liver, heart function, acid/base balance and know the quality systems and concepts of measurement of uncertainty.
14. Medical and Surgical conditions	To make a diagnosis when symptoms, abnormalities on physical examination, or other evidence suggests, but does not prove, that a disease may be present . To determine the extent of disease progression or severity and the likelihood of recovery or risk of future adverse health outcomes (e.g., cancer relapse). To allow accurate and targeted treatment selection tailored to individual needs.
15. Advance Laboratory Techniques	At the end of the course the students should know a wide range of advanced experimental techniques, laboratory exercises which have significance in industrial, Hospitals and everyday Laboratory applications, scientific method and mathematical analysis have skills in maintaining data & report writing.