



Maratha Vidya Prasarak Samaj's
Karmaveer Shantarambapu Kondaji Wavare
Arts, Science and Commerce College, CIDCO, Nashik
Uttamnagar, Nashik- 422 008 (Maharashtra)

Affiliated to Savitribai Phule Pune University

Id. No. PU/NS/ASC/047/1993

AISHE C-42086

NAAC Re-accredited 'A' Grade (III Cycle 2017-22, CGPA 3.20)

Best College Award of Savitribai Phule Pune University Pune in 2009-10 and 2021-22

**Programme
Outcomes (PO's)**

Internal Quality Assurance Cell



**Programme
Specific Outcomes
(PSO's)**



**Course Outcomes
(CO's)**

Syllabus: 2019 Pattern





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KARMAVEER SHANTARAMBAPU KONDAJI WAVARE
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Uttamnagar, Nashik- 422 008 (Maharashtra)

Principal

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M.Sc., Ph. D.

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Programme Outcome (PO's), Programme Specific Outcome (PSO's), Course Outcome (CO's)

Sr. No.	Name of the Programme	Year of introduction of programme	Duration of introduction of Programme
1	Diploma -Medical Lab Technology	2020	1 Years

Programme Specific Outcome of (Diploma in MLT)

Sr. No.	Programme Specific Outcome (Diploma in MLT)
PSO 1	After successful completion of Diploma in MLT, student will be able to knowledge of different sectors of medical diagnostic field .
PSO 2	skills to perform tests that aid in diagnosis and treatment of disease.
PSO 3	skills necessary for inspecting diagnosis of diseases.
PSO 4	ability to solve various societal problems related to health.
PSO 5	identify blood groups and compatibility for blood transfusion.
PSO 6	operate basic functions in computer.
PSO 7	communicate Skillfully.
PSO 8	diagnose disorders from sections.
PSO 9	grow pathogen from different sample
PSO10	perform primary techniques of pathological laboratory.

Course Outcomes

Class	Subject code	Title	Cos: After successful completion of this course, student will be able to	
D.M.L.T Sem I	DMLTG111	Basics of Anatomy, physiology and laboratory procedures	CO 1 :	describe human anatomy and physiology.
			CO 2 :	Sketch and explain cardiovascular system.
			CO 3 :	draw and describe digestive system.
			CO 4 :	explain structure and function of urinary system.
			CO 5 :	describe and draw reproductive system.
			CO 6 :	illustrate nervous and endocrine system.
	DMLTG112	Haematology and Blood Banking	CO 1 :	list different types of blood cells.
			CO 2 :	draw and describe hematopoietic system.
			CO 3 :	arrange reactions of blood clotting.
			CO 4 :	recognize normal and abnormal blood cells.
			CO 5 :	describe concepts of immunology.
			CO 6 :	explain basic principles of immunohematology.
	DMLTG113	Basics of Computer and Communication skill	CO 1 :	predict SWOT.
			CO 2 :	develop positive attitude.
			CO 3 :	set smart goals.
			CO 4 :	develop leadership qualities.
			CO 5 :	describe concept of Microsoft office.
			CO 6 :	explain use of internet.
	DMLTS111	Basics of Anatomy, physiology and laboratory procedures	CO 1 :	identify skeletal system.
			CO 2 :	read and analyse electrocardiogram.
			CO 3 :	measure heart rate and pulse rate.
			CO 4 :	check blood pressure.
			CO 5 :	sterilize laboratory glassware.
			CO 6 :	standardise glassware.

	DMLTS112	Haematology and Blood Banking	CO 1 :	collect blood sample for analysis.
			CO 2 :	calculate blood indices.
			CO 3 :	determine bleeding and clotting time.
			CO 4 :	identify blood group.
			CO 5 :	analyse compatibility of blood donor and recipient
			CO 6 :	observe and record functioning of blood bank.
	DMLTS113	Basics of Computer and Communication skill	CO 1 :	manage time.
			CO 2 :	develop communication skill.
			CO 3 :	draft CV.
			CO 4 :	deal with problem.
			CO 5 :	Search data on internet.
			CO 6 :	prepare manuscript using word and excel.
D.M.L.T Sem II	DMLTG211	Microbiology	CO 1 :	draw and describe structure of bacteria.
			CO 2 :	explain bacterial cultivation techniques.
			CO 3 :	illustrate different bacterial pathogen.
			CO 4 :	describe different viral pathogen.
			CO 5 :	explain fungal and protozoal pathogen.
			CO 6 :	describe concepts of chemotherapy.
	DMLTG212	Clinical Pathology and biochemistry	CO 1 :	calculate ingredient for standard solutions.
			CO 2 :	explain metabolism of biomolecules.
			CO 3 :	plan for urine analysis.
			CO 4 :	illustrate stool examination.
			CO 5 :	describe semen and CSF analysis.
			CO 6 :	illustrate automation in clinical biochemistry.
	DMLTG213	Histopathology	CO 1 :	define terms in histopathology.
			CO 2 :	plan processes involve in preparation of tissue section.

			CO 3 :	explain staining techniques of tissue sections.
			CO 4 :	describe decalcification of tissues.
			CO 5 :	illustrate methods of waste disposal.
			CO 6 :	outlines the services provided by hospital, histology laboratory.
	DMLTS 211	Microbiology	CO 1 :	prepare laboratory media
			CO 2 :	identify organism by different staining technique.
			CO 3 :	cultivate organism.
			CO 4 :	identify pathogen from clinical sample.
			CO 5 :	perform and interpret serological tests/
			CO 6 :	observe instruments and working microbiological laboratory.
	DMLTS 212	Clinical Pathology and biochemistry	CO 1 :	determine blood sugar level.
			CO 2 :	report kidney function.
			CO 3 :	interpret lipid profile.
			CO 4 :	separate and determine amino acid.
			CO 5 :	determine blood electrolytes..
			CO 6 :	observe and record different techniques in pathology laboratory.
	DMLTS213	Histopathology	CO 1 :	identify the basic structures of cells and tissues.
			CO 2 :	fix the specimen.
			CO 3 :	decalcify the tissue.
			CO 4 :	prepare paraffin blocks.
			CO 5 :	take section from paraffin block
			CO 6 :	adopt skills necessary in pathology laboratory.