SARDAR PATEL UNIVERSITY Programme: BSC (MICROBIOLOGY)

Semester: VI

Syllabus with effect from: November 2013

Paper Code: US06CMIC04	Total Credit: 3
Title Of Paper: Medical Microbiology	Total Cleuit. 3

Unit	Description in detail	Weighting (%)
1	Hematology:	
	Components of Blood & their functions, Hematopoiesis, Hemostasis &	
	Anticoagulants.	
	Immuno hematology. ABO & Rh Blood Group System.Coombs Test	
	Principles of Blood Banking, Safety in Blood Transfusion.	
2	Clinical Microbiology:	
	Collection, Handling & Transport of Clinical Specimen,	
	Methods of Diagnosis, Microscopy, Identification of microorganisms from	
	specimen.	
	Bacteriophage Typing, Serotyping, Antibiogram, Rapid Identifying Techniques	
	Techniques in Clinical Immunology:	
	Immunodiffusion, Immunoelectrophoresis, ELISA, Western Blot, RIA	
	Immunofluorescence.	
3	Clinical Biochemistry	
	Kidney function test : Significance of Urea, Creatinine, Uric acid.	
	Liver function test: Significance of Bilirubin, SGPT, SGOT, Alkaline	
	Phosphatase, Total Proteins, Albumin, Globulin	
	Cardiac function test: Phosphokinase, Cholesterol, Triglycerides, Serum	
	Electrolytes, Blood	
	Principles of Epidemiology. Vaccines, Bioterrorism.	
4	Causative Agent, Symptoms, Pathogenesis, Transmission,	
	Laboratory diagnosis, Treatment & prevention of Typhoid, Tuberculosis, AIDS,	
	Malaria	
	Hospital Infections .	

Basic Text & Reference Books:

- > Text Book of Microbiology Ananthnarayan & Paniker
- Microbiology Prescott, Harley & Klein.
- Medical Laboratory Technology K.L.Mukherjee.
- > Text Book of Medical Laboratory Technology P.B.Godkar
- Medical Microbiology Murray and Drew.

