Semester 9001	Main Topics	Theoratical (60 hrs)	Practical (90 hrs)
General	Cell Structure	3	
	Classification of medically important bacteria	2	
	Normal flora	2	
	Physiology	2	
	Sterilization	3	6
	Bacterial identification: • Traditional method: smear ,culture, BRetc	2	15
	ABIVitecBCBACTEC	1 1 1.5 1.5	15
	anaerobic culture	2	15
	 Chemotherapy: Antibiotic classification. Action and resistance. Different AB sensitivity tests (disc diffusion - MIC) E test – automated tests. Detection of MRSA and MBL Antibiotic policy 	2 2 3 2 2 2	15
	Genetics: Mutation & Gene transfer Sequencing Gene therapy Plasmid Transposone Genetic engeneering Different typing methods	2 4 2 2 2 2 3	8 (nucleic acid extraction) 6 (plasmid isolation)
	Molecular: PCR Real time PCR Hybridization Pulsed field gel electrophoresis	2 2 2 2	10 (PCR)