Subject	Microbiology and parasitology		
Syllabus	Threeyear technical college for graduated nurse / technician		
Code:	SM S/T-213		
Study year	Second		
Semester	First		
Total number of	35		
lessons			
Kredits	2		
Kind of subject	Obligatory		
Preconditions	Fulfilled conditions for attending the second study year		
Autor of the	Chair for Microbiology and parasitology		
programme:	Head of the chair: Prof. d-r Elena Trajkovska-Dokic		
Carry out:	Chair of Microbiology and parasitology		
Responsible professor	Prof. d-r Kaca Popovska-Jovanovska, e-mail: <u>kpopovska@medf.ukim.edu.mk</u>		
Address:	Institute for microbiology, Skopje Tel: + 389 2 3109 829		
Key wards	Studies for nurses and technicians, basic subjects, microbiology and parasitology		
Teaching aids	Gaining of knowledge for the normal microflora in the human body		
	Gaining of knowledge for the pathogenic microorganisms and parasites that cause infective diseases		
	Gaining of knowledge for the procedures for control of antimicrobial activity		
Short content	 Teoretical teaching (25 lessons): Morphology and physiology of bacteria Normal microbial flora of the human body Desinfection, Sterilisation, Asepsis and antisepsis Antimikrobial agents:groups, mechanisms of activity and machanisms of resistance Infections and immunity Diagnosis, specific therapy and prophylacsis of infective diseases Patogenic bakteria: kinds, bakterial infections Fungi: structure, multipliing, fungal infections Viruses: multipliing, isolation, identifikation, viral diseases Parasites: kind, parasitic diseases Practical teaching and seminars (5 + 5 lessons): Students learn for the proces of collectio and transportation of samples Students learn for culturing and identifiing different microorganisms microscopicaly Students learn for the principles of antimicrobial therapy 		
Organisation	Teoretical teaching: 25 lessons Seminars: 5 lessons Praktical teaching: 5 lessons		
Learning methods	Interactive theoretical teaching, Exercises, Seminars		
Predicted learning results	Knowledge and understanding: Students will gain knowledge for microorganisms and their impact ubove developing of infective diseases as well as for the different kind of antimicrobial therapy Key skills: Students will be able for correctly collection and transportation of samples to the microbiological laboratory		
Specific recommendations	Student is charged to attend all predicted activies		

for teaching	Scoring of the student's activities:			
	Kind of activity	Points		
	Theoretical teaching	7.5 – 15		
	Prectical teaching	12.5 – 25		
	Colloquium	40 – 60		
	Total:	60 – 100		
	Attendance on theoretical teaching: • 51% - 60% -> 7.5 points • 61% - 70% -> 9.5 points • 71% - 80% -> 12 points • 81% - 90% -> 13 points • 91% - 100% -> 15 points Scoring of practical teaching (10 lessons): any lesson is equal 2.5 points • Presence -> 1 point • Activivity (knowledge) -> 1.5 point			
	Conditional criteria: Student has to gain minimum 20 points from the tand practical teaching for approaching to the final exam. The final exam The final grade can be obtained according to the points shnown in the table has to obtain minimum 60% of the total points from the colloquium. In he/she must approach the complete final exam.			
	Colloquium: Student has to attend regulary the theoretical and practical teaching as a condition for approaching the final exam. The final exam is written.			
Checking of the knowledge	Student has to obtain minimum points (60%) from the colloquium. In opposite he/she must apply to the comlete final exam.			
	Final exam: There is no. If the student pass the colloquium, than he can obtain the final grade. Complete final exam: That is the colloquium which is not passed.			
	Criteria for creating the final grade:			
Scoring	Points	Grade		
	do 59	5 (F)		
	60-68	6 (E)		
	69-76	7 (D)		
	77-84	8 (C)		
	85-92	9 (B)		
	93-100	10 (A)		
Textbooks for learning	Basic: 1. Jawetz, Melnik and Adelberg: "Medical Microbiology" 21th eddition., 2004 2. Grinvud D. And coworkers, "Medical microbiology", 17th eddition 2006			
	 Milena Petrovska and coworkers: "Practical textbook for medical microbiology and parasitology"; fifth eddition 2010 Kaca Popovska-Jovanovska: "Nosocomial infections"; 2003 			