Subject	Microbiology and parasitology		
Syllabus	Threeyear technical college for graduated physiotherapist		
Code:	SSF-214		
Study year	Second		
Semester	Third		
Total number of lessons	30		
Kredits	1.5		
Kind of subject	Obligatory		
Preconditions	Fulfilled conditions for attending the second study year		
Carry out:	Chair for Microbiology and parasitology Head of the chair: Prof. d-r Elena Trajkovska-Dokic		
Responsible professor	Prof. dr Kaca Popovska-Jovanovska		
Address:	Institut za mikrobiologija, 50 Divizija br.6, 1000, Skopje Tel. +389 2 3109 829, e-mail: kpopovska@medf.ukim.edu.mk		
Key wards	Studies for phisiotherapists, basic sciencies, microbiology and parasitology		
*	Gaining of knowledge for the normal microflora in the human body		
Teaching aids	• Gaining of knowledge for the pathogenic microorganisms and parasites that cause		
	infective diseases		
	Gaining of knowledge for the procedures for control of antimicrobial activity		
	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		
Short content	Patogenic bakteria: kinds, bakterial infections		
	Fungi: structure, multipliing, fungal infections		
Short content	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		
	Seminars (5 lessons):		
	• Students learn the principles for accquiring the aseptic conditions during health care as		
	well as the principles for the antimicrobial therapy		
Organisation	Theoretical teaching: 15 lessons		
_	Seminars: 5 lessons		
Learning methods	Interactive theoretical teaching, Seminars		
	Knowledge and understanding:		
Dradiated learning	Students will gain knowledge for microorganisms and their impact ubove developing of infective diseases as well as for the different kind of antimicrobial therapy		
Predicted learning results	Key skills:		
results	Students will be able for correctly collection and transportation of samples to the		
	microbiological laboratory		
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	Student is charged to attend all predicted activies		
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	Scoring of the student's activities:		
	Kind of activity	Points	
	Theoretical teaching	7.5 – 15	
Specific	Seminars	12.5 - 25	
recommendations	Colloquium	40-60	
for teaching	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 Presence on the seminars: 51%-60% -> 1 point 61% - 70% -> 2 points 71% - 80% -> 3 points 81% - 90% -> 4 points 91% - 100% -> 5 points		
Chacking of the knowledge	Colloquium:         Student has to attend regulary the theoretical and practical teaching as a condition for approaching the final exam. The final exam is written.         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.		
Scoring	Criteria for creating the final grade:		
	Points	Grade	
	do 59	5 (F)	
	60-68	6 (E)	
	69-76	7 (D)	
	77-84	8 (C)	
	<u>85-92</u> 93-100	<u>9 ( B)</u> 10 (A)	
Textbooks for learning	<ul> <li>Basic: <ol> <li>Jawetz, Melnik and Adelberg: "Medical Microbiology" 21th eddition., 2004</li> <li>Grinvud D. And coworkers, "Medical microbiology", 17th eddition 2006</li> <li>Milena Petrovska and coworkers: "Practical textbook for medical microbiology and parasitology"; fifth eddition 2010</li> <li>Kaca Popovska-Jovanovska: "Nosocomial infections "; 2003</li> </ol> </li> </ul>		