Study Program: MEDICAL NURSES / MEDICAL TECHNICIANS

	FIRST YEAR – 1 st SEMESTER				
Code	COURSE	Credits	Hours	Overall workload	
3MF100212	Anatomy	7	3+3+1	210	
31411 100212	Introduction to human genetics	5	2+2+1	150	
	Histology and Embryology	6	2+3+1	180	
	Communication skills	6	2+3+1	180	
	Clinical psychology	2	1+1+1	60	
UGD100112	1 Foreign Language – English 1 Foreign Language - Italian 1 Foreign Language - German 1 Foreign Language - French 1 Foreign Language - Spanish 1 Foreign Language - Russian	4	0+0+4	120	
UGD102712	Sports and Recreation	0	0+0+2	0	

	FIRST YEAR –2 nd SEMESTER				
Code	COURSE	Credits	Hours	Overall workload	
	Physiology	4	2+1+1	120	
	Biochemistry	4	2+1+1	120	
	Microbiology with parasitology	6	2+3+1	180	
	Nursing care	6	2+3+1	120	
	Ecology and Hygiene	2	2+0+1	60	
	Epidemiology	4	2+1+1	120	
	Computer Science	4	2+1+1	120	

	SECOND YEAR - 3 rd SEMESTER				
Code	COURSE	Credits	Hours	Overall workload	
Code				WOIKIOAU	
	Pathophysiology	7	3+3+1	210	
	Pathology	7	3+3+1	270	
	Pharmacology	4	2+1+1	120	
	Contemporary diagnostic methods in medicine	4	2+1+1	120	
	Medical ethics	4	2+1+1	120	
	Health care organization	4	2+1+1	120	

	SECOND YEAR - 4th SEMESTER				
Code	COURSE	Credits	Hours	Overall workload	
	Internal medicine with care	8	3+4+1	240	
	Infective diseases with care	4	2+1+1	120	
	Oncology with care	4	2+1+1	120	
	Ophthalmology with care	4	2+1+1	120	
	Neurology and psychiatry with care	4	2+1+1	120	
	Family medicine	4	2+1+1	120	
	Facultative course	2	2+0+1	60	

	THIRD YEAR - 5 th SEMESTER			
Code	COURSE	Credits	Hours	Overall workload
	Surgery with Care	8	3+4+1	240
	Gynecology and obstetrics with care	5	2+2+1	150
	Orthopedics and Traumatology with care	5	2+2+1	150
	Anaesthesiology and resuscitation with care	4	2+1+1	120
	Dermatovenerology with care	2	2+0+1	60
	Geriatric with care	4	2+1+1	120
	Facultative course	2	2+0+1	60

	THIRD YEAR – 6 th SEMESTER				
	COURSE	Credits	Hours	Overall	
Code				workload	
	Pediatrics with care	6	3+2+1	180	
	Otorhinolaryngology with care	5	2+2+1	150	
	Physical medicine with rehabilitation	4	2+1+1	120	
	Emergency medicine with care	5	2+2+1	150	
	Facultative course	2	2+0+1	120	
	Final exam	8	3+4+1	240	

SUPPLEMENTARY COURSES

	SECOND YEAR - 4th SEMES	SECOND YEAR - 4th SEMESTER					
	COURSE	Overall					
Code				workload			
	Nutrition and Dietetics	2	2+0+1	60			
	Sociology of health and disease	2	2+0+1	60			
	Intrahospital infections	2	2+0+1	60			

	THIRD YEAR – 5 th SEMESTER	THIRD YEAR – 5 th SEMESTER				
	COURSE Credits Hours Overall					
Code				workload		
	Healthcare management	2	2+0+1	60		
	Nursing healthcare	2	2+0+1	60		

THIRD YEAR – 6 th SEMESTER				
	COURSE	Credits	Hours	Overall
Code				workload
	First Medical Aid	2	2+0+1	60
	Sexually transmitted diseases	2	2+0+1	60

Anr	nex No.3	Course Programme -	first cycle studies	S		
1.	Course	itle	Anatomy			
2.	Code					
3.	Study P	rogramme	Medical nurses / Medical Technicians			
4.	Level of third cyc	studies (first, second, cle)	First cycle			
5.	Organizer of the study programme (faculty/ institute, department)					
6.	Academ	ic year / semester	First semester	7.	Number of credits	7
8.	Lecturer	/Instructor	Asst. Prof. Svetl	ana	Jovevska	•
9.	Require	d prerequisite courses				
10	Course	phiectives (competence	e).			

course objectives (competences):

Introduction to anatomy as morphological science, master the professional terminology, complete study of the locomotion system. Introduction to the anatomy of the thorax, abdomen and pelvis, skeletotopical and holotopical relations of these organs in the body cavities

11. Course content:

Theoretical content:

- 1. Introduction to anatomy and osteology, types of bones, bone components, technical terminology, bones of fixed and movable parts of the upper limb, bones of fixed and movable parts of the lower limb, bones of the thorax and
- 2. Introduction to Syndesmology, joint, joint components, types of joints, syndesmology of the upper extremities, syndesmology of the body and the lower extremities.
- 3. Myology, angiology and neurology of the upper and the lower extremities
- 4. Bone fracture, scapula, upper arm, forearm bones (radius and ulna) and parts of the thorax, breast structure, the breathing organs, circulation organs. Abdominal wall - muscle, vasculature, innervation, ratios
- 5. Organs in the abdominal cavity-peritoneum, esophagus, stomach, organs in the abdominal cavity-small and large intestine, liver, gall tract, pancreas.
- 6. Spleen, kidney, adrenal gland, urinary tract, pelvic cavity-limits and structure; urinary organs, female reproductive organs, male reproductive organs
- 7. Head and neck arteries, veins and lymph vessels
- 8. Cranial nerves
- 9. Head and neck organs -topography relations, endocrine glands
- 10. Organs of the digestive system in the head and the neck, organs of the respiratory system in the head and the neck
- 11. Sensory organs, eye and ear, nervous system, structure, types of nerve fibers, division of the nerve system, ventricular system
- 12. Spinal cord, medulla oblongata, cerebellum, midbrain, cerebrum, brain membranes

Practical content:

1.Bones orientation: clavicle, scapula, humerus, forearm bones (the radius and the ulna); Hand skeleton: carpals, metacarpals and phalanges; chest and vertebral column; Skeleton of the pelvic girdle - coxae, sacrum and coccyx; Skeleton of the femur, tibia, fibula and patella.

- 2. Foot skeleton tarsals, metatarsals and phalanges; Joints of the upper extremities, chest and vertebral column; Joints of the lower extremities
- 3. Bones of the head (skull and face); Joints of the head (skull and face)
- 4. Muscles and blood vessels of the upper extremities; Muscles and blood vessels of the lower extremities; Innervation of the upper and lower extremities
- 5. Chest wall structure, division of the mediastinum, boundaries, composition, topography; Mediastinal organs relations; structure and topography of the respiratory system
- 6. Structure of the bloodstream system and major blood vessels, topography and relations; Abdominal wall structure, muscles, relations of the muscles and the organs, vascularization and innervation; Orientation in the abdominal cavity peritoneum, esophagus, stomach, topography and relations
- 7. Topography of organs in the abdominal cavity- structure and orientation of the small and the large intestine; Orientation patterns of liver, bile tract, pancreas; Orientation patterns of spleen, kidney, adrenal gland, urinary tract anatomy
- 8. Pelvic wall structure, topographic relations of organs, pelvic organs; Pelvic cavity urinary tract organs, relation to other organs, vascularization and innervation; Female genital organs -orientation, relation to other organs; Male genital organs orientation, relation to other organs
- 9. Head and neck vascularization; Venous, lymphatic system of the head and neck; Cranial and spinal nerves
- 10. Mouth cavity, Nasal cavity anatomical parts, structure, function; Organs of the digestive system located in the head and neck; Organs of the respiratory system located in the head and neck
- 11. Eye anatomy, proportion, orbit anatomy; Ear anatomy, relation to other organs; Sense organs of taste, smell, touch and balance
- 12. Endocrine glands-topography, relations; Autonomic nervous system anatomical division, function

	12.	Course methodology:								
		Interactive teaching, individual consultations with students								
ĺ	13.	Total available time		210						
ĺ	14.	Distribution of available time		3+3+1						
ĺ	15.	Forms of instruction	15.1	Lectures / theoretical -	45 hours					
ı										

14.	Distribution of available time		3+3+1	
15.	Forms of instruction	15.1	Lectures / theoretical - contact teaching, e-teaching	45 hours
		15.2 theo practices the control of t		45 hours
16.	Other activities	16.1	Project tasks	15 hours
		16.2	Individual tasks	15 hours
		16.3	Home learning	90 hours

				16.3	Home learning		90 hours
1	7.	Cours	se methodology		•		•
		17.1.	Tests / oral exams			70	points
		17.2.	Seminar (paper/project and/or oral)	t - pre	sentation: written	10	points
		17.3.	Activity and participati	on		20	points

up to 50 points

5 (five) (F)

18. Grading system

		51 to 60 points	6 (six) (E)
		61 to 70 points	7 (seven) (D)
		71 to 80 points	8 (eight) (C)
		81 to 90 points	9 (nine) (B)
		91 to 100 points	10 (ten) (A)
19.	Signature and final exam prerequisites	60% achievement o	n all pre-exam activities
20.	Language of instruction	Macedonian	
21.	Course evaluation	Self evaluation	

22.	Literature								
		Requ	ired literature						
	22.1.	No.	Author	Title	Publisher	Year			
		1.	Shumano G. and co.	Anatomy of human- script	Prosvetno delo				
		2.	Kargovska K.A., Gorgevik N., Lazarova D	Anatomy of human- Osteologija	Prosvetno delo				
		3.	Kargovska K.A.,	Anatomy of human- hand and chest					
		4.	Kargovska K.A.,	Anatomy of human- lower limb					
		5.	Kargovska K.A.,	Anatomy of human- Abdomen					
		6.	Dzidrova D., Strateska Z.A., Hristova G.N., Kargovska K.A	Anatomy of human - Pelvis					
		Supp	lementary literature	9		-			
	22.2.	No.	Author	Title	Publisher	Year			
	££.£.	1.	Sinelnikov	AnatomicalAtlas ofman(I, II, IIIpart)	Springer	2008			
		2.	F.N. Netter	Atlas of human anatomy	Springer	2011			

Ann	ex No.3	Course Programme	fire	et/socond/thir	d cv	olo stud	diae	
		Course Programme	- 1113	si/secona/inii	и су	cie stud	ules	
1.	Course t	title	In	troduction to	hum	an gen	etics	
2.	Code							
3.		rogramme		edical nurse/ ı				
4.		er of the study		Faculty of Medical Sciences				
	departm			University "Goce Delchev" 'Stip				
5.	Level of third cyc	studies (first, secon cle)	d, Fi	rst cycle				
6.	Academ	ic year / semester	Fi	First semester 7. Number of credits 5				
8.	Lecturer	/Instructor(s)	Pł	nD Darko Bos	nako	vski		•
9.	Require	d prerequisite	No	one				
	courses							
10.		Course objectives (competences):						
	Introduction to basic scientific knowledge of cell biology and genetics.							
11.								
	1. Morphology and physiology of cells. 2. DNA, iRNK, rRNK, tRNA,							
		cription, translation,	roplic	estion of DNA				
		tance of properties-				ion: Ge	nas- etru	icture
		ction genome, genot	-	_				otare
	express		ypo, g	0110110 0000, 0		o, and	90110	
	•	ture and function of	the ch	romosome. M	itosi	is and r	neiosis.	
		somal, recessive inh						iate
		ominant inheritance		•		,		
	7. Nume	rical chromosomal a	berra	tions: aneuplo	oidy,	hetero	ploidy,	
	monoso	my, nullisomy, triso	my.	•	-			
	8. Struct	tural aberration: dele	etions,	duplications,	trar	islocati	ons,	
	inversio							
		ions. Mutagenic fact						
		osomal and X-linked	_					
		etic basis of maligna	ncy (c	ancer).				
40		etic engineering.						
12.		methodology:	rocco	roh and proct	ical	20tiv:141	00	
12		s,exercises,Seminar ailable time	reseal		ıcaı	activitie		
13. 14.		anable time tion of available time	<u> </u>	150 2+2+1				
15.		f instruction) 15.1.	lectures / the	oro	tical -	30 hours	2
13.	1 011115 0	า เมอน นับแบบ	13.1.	contact teac			Ju Hours	3
				e-teaching	9	,		
			15.2.	theoretical a	nd		30 hours	
				practical exe		es.	30	-
				e-exams, ind		-		
				seminar proj	-			
16.	Other ac	ctivities	16.1.	Project tasks			15 hours	5
			16.2.	Individual ta	sks		15 hours	S
			16.3.	Home learnii	ng		60 hours	s

17.	Cours	se methodology			
	17.1.	Tests / oral exams		70 points	
	17.2.	Seminar (paper / project - presentation: written and/or oral)			oints
	17.3.	Activity and participation	20 pc	oints	
18.	Gradi	ng system	up 50 points	5 (F)	(five)
			51 to 60 points	6 (E)	(six)
			61 to 70 points	7 (D)	(seven)
			71 to 80 points	8 (C)	(eight)
			81 to 90 points	9 (B)	(nine)
			91 to 100 points	10 (A)	(ten)
19.	_	ture and final exam quisites	60% achievement or activities	n all pr	e-exam
20.	Langu	uage of instruction	Macedonian		
21.	Cours	se evaluation	Electronic self-evalu	uation	

22.	Litera	ature								
		Required literature								
		No.	Author	Title	Publisher	Year				
	22.1.	1.	Nada Miteva	General biology (cytology, genetics, embryology)	UKIM	2000				
		2.	Marija Kaeva Pejkovska	Medical genetics	UGD	2008				
		3.								
		Supp	lementary literature		1					
		No.	Author	Title	Publisher	Year				
	22.2.	1.	Essentials of Genetics	Klug, Cummings and Spencer	Benjamin Cumming s	2012				

Ann	ex No.3 Course Programme	- firs	t cycle studies	}				
1.	Course title	Hi	istology and E	mbr	voloav			
2.	Code	<u> </u>			, 3			
3.	Study Programme	М	edical nurses <i>l</i>	/ Me	dical Techr	nicians	<u> </u>	
4.	Level of studies (first, second		aculty of Medic					
	third cycle)		niversity "Goc)		
5.	Organizer of the study programme (faculty/ institute department)	Fi	rst cycle					
6.	Academic year / semester	Fi	rst semester	7.	Number of credits	of	6	
8.	Lecturer/Instructor	A:	sst. Prof. Neve	nka	Velickova			
9.	Required prerequisite course	s No	one					
10. 11.	Introducing the histological structure, structure and function of all types of tissues, organs and organ systems							
	<u>Theoretical lectures</u> Epithelial tissues							
	Connective tissue							
	Muscle tissue							
	Nervous tissue							
	Gastrointestinal system							
	RES							
	Respiratory system. urogenital system							
	Nervous system. Endocrine system							
	Spermatogenesis and oogenesis							
	Embryonic development							
	Organogenesis							
	Placentation							
	Practical activities							
	Making permanent histologic	al prep	parations					
	Epithelial tissues							
	Conective tissue							
	Muscle tissue							
	Nervous tissue							
	Gastrointestinal system	المديم ا						
	Glands in the gastrointestinal system							
	RES Pospiratory system urogoni	tal eve	tom					
	Respiratory system. urogeni Nervous system. Endocrine	-						
	Spermatogenesis and oogen		l i					
	Placenta, embryonic leaves	10313						
12.	Course methodology:							
14.	Lectures, tutorials, research	naner	and practical a	ctiv	ities			
13.	Total available time	paper	180					
14.	Distribution of available time		2+3+1					
15.	Forms of instruction	15.1	Lectures / the	eore	tical - 30	hours	<u> </u>	
. • .			contact teach e-teaching				•	

		15.2	theoretical and practical exercises e-exams, independ seminar project	•	45 hours	
16.	Other activities	16.1	Project tasks		15 hours	
		16.2	Individual tasks		20 hours	
	16.3		Home learning		70 hours	
17.	7. Course methodology					
	17.1. Tests / oral exams			70 points		
	17.2. Seminar (paper/project and/or oral)	t - pre	sentation: written	10 p	oints	
	17.3. Activity and participati	ion		20 p	oints	
18.	Grading system	ι	up to 50 points 5 (fix		/e) (F)	
			51 to 60 points		x) (E)	
			61 to 70 points		even) (D)	
			71 to 80 points		ght) (C)	
			31 to 90 points	•	ne) (B)	
			1 to 100 points		en) (A)	
19.	Signature and final exam prerequisites		60% achievement on	all pr	e-exam activities	
20.	Language of instruction	N	Macedonian			
21.	Course evaluation	5	Self evaluation			
22.	Literature					
	Required literature					

22.	Litera	ture								
		Required literature								
	22.1.	No.	Author	Title	Publisher	Year				
		1.	Luis Carlos Zhunkveira Jose Karneiro	Basic histology						
		2.	Nada Mitewa	Histology and Embryology						
		3.	Nevena Kostovska Ljiljana Milenkova	Histology and Embryology						
		Supp	Supplementary literature							
	22.2.	No.	Author	Title	Publisher	Year				
		1.								

	nex No.3 Course Programm	e - firs	t cycle studies				
1.	Course title		ommunication		ls		
2.	Code			<u> </u>			
3.	Study Programme	М	Medical nurses / Medical Technicians				
4.	Level of studies (first, secon		Faculty of Medical Sciences				
	third cycle)		niversity "Goc				
5.	Organizer of the study		rst cycle			<u> </u>	
.	programme (faculty/ institut department)		. or oyolo				
6.	Academic year / semester	Fi	First semester 7. Number of credits 6				6
8.	Lecturer/Instructor	A	sst. prof. Gord	ana	Panova	1	
9.	Required prerequisite cours	ses	•				
10.	To become familiar with the communication. To learn co exercises	Course objectives (competences): To become familiar with the nature, structure, characteristics, principles of communication. To learn communication skills through training and exercises					
12. 13. 14. 15.	Course content: 1. Introduction to communic 2. Skills of asking questions 3. Listening skills 4. Nonverbal behavior 5. Answering skills 6. Information sharing: mod 7. Medical worker-patient re 8. Counseling skills 9. Persuasion skills 10. Dealing with people with 11. Communication with par 12. Communication of progree methodology: Total available time Distribution of available tim Forms of instruction	els and lationsh Genera ents nosis, h	methods nip alized Anxiety	eore	tical -	30 hou	ırs
				Il and exercises, independent			
		15.2	theoretical ar practical exer e-exams, inde seminar proje	rcise eper		45 hou	irs
16.	Other activities	16.1	theoretical ar practical exer e-exams, inde seminar proje Project tasks	rcise eper ect		15 hou	ırs
16.	Other activities	16.1	theoretical ar practical exer e-exams, inde seminar proje Project tasks Individual tas	rcise eper ect		15 hou 20 hou	irs
		16.1	theoretical ar practical exer e-exams, inde seminar proje Project tasks	rcise eper ect		15 hou	irs
	Course methodology	16.1	theoretical ar practical exer e-exams, inde seminar proje Project tasks Individual tas	rcise eper ect	ndent	15 hou 20 hou 70 hou	irs
		16.1	theoretical ar practical exer e-exams, inde seminar proje Project tasks Individual tas	rcise eper ect	ndent	15 hou 20 hou	irs
16. 17.	Course methodology	16.1 16.2 16.3	theoretical ar practical exer e-exams, inde seminar proje Project tasks Individual tas Home learnin	rcise eper ect ks	70 p	15 hou 20 hou 70 hou	irs

18.	Grading system	up to 50 points	5 (five) (F)
		51 to 60 points	6 (six) (E)
		61 to 70 points	7 (seven) (D)
		71 to 80 points	8 (eight) (C)
		81 to 90 points	9 (nine) (B)
		91 to 100 points	10 (ten) (A)
19.	Signature and final exam prerequisites	60% achievement of	on all pre-exam activities
20.	Language of instruction	Macedonian	
21.	Course evaluation	Self evaluation	

22.	Litera	Literature									
		Required literature									
		No.	Author	Title	Publisher	Year					
	22.1.	1.	KR Seturaman Communication skill in clinical practice		Tabernakul	2010					
		2.	Mandiħ, T	Communicology: Communication Psychology	Klio, Beograd	2003					
		3.									
		Supplementary literature									
		No.	Author	Title	Publisher	Year					
	22.2.	1.	Rosenberg, M.	Language compassion	Institute for textbooks and teaching aids	2002					
		2.	Goleman D.,	emotional Intelligence	Geopoetika , Beograd	1997					

Anr	nex No.3	Course Progra	ımme - first cycle s	tudies		
1.	Course t	itle	CLINICAL PSYCHO	LOGY		
2.	Code					
3.	Study Programme		Medical nurses / M	edical Te	chnicians	
4.	Program	er of the study me(unit or , Faculty, ent)	Faculty of Medical Sciences University Goce Delcev Stip			
5.		studies (first, third cycle)	First cycle			
6.	Academ semeste	_	First semester	7.	Number of credits	2
8.	Lecturer	/Instructor(s)	Asst. Prof. Lence	/ Illoseva		
9.	Required courses	d prerequisite				

10. Course objectives (competences)

To become familiar with basic concepts, tasks and aplication of clinical and health psychology.

To gain knowledge and understand the concepts, structure, psychological processes and personality changes through different developmental periods. Introduction to basic principles of psychological approach, preparation and implementation of psychological interventions with patients and/or inpatients; Human behavior in medical conditions, person's reactions to illness. To become familiar with biopsychosocial model of health, psychological aspects of somatic diseases and some of the most common mental disorders; To develop communication skills (doctor/patient).

11. Course content:

General part

Introduction to Medical Psychology.Biopsychosocial model of health and illness.

Human development. Child and adolescent psychology. Psychology of adulthood and aging.

Patients Psychology (Psychological aspects of hospitalization. Child as a patient. Adult as a patient. Geriatric patients.

Pain Psychology

Communication

Special part

Stress and coping with stress.

Mental health and mental disorders.

Psychoneuroimmunology, AIDS and cancer; Psycho-oncology; Psychological aspects of chronic and terminal illness.

Psychosomatic illness; Psychological aspects of cardiovascular disease; brain injury; Appoplexy;

Psychological aspects of pregnancy.

Death and dying.

Positive health psychology.

Health promotion. Family, health and illness.

12. Course methodology:

Seminar project, interactive method: group work, reports, homework, discussion, debate, cooperative studying techniques, individual tasks,

			tudying		1				
13.			ble time		60				
14.	Distribution of available time)	1+1	+1			
15.	Forms	s of in	struction	15.1.	lect	ures - theoretical tea	ching	15 h	ours
		1				xercises(laboratory,theoretical), eminar project, teamwork			ours
16.	Other forms of activities		16.1.	Pro	ject tasks		15 h	ours	
	activit	ues		16.2.	Indi	ividual tasks		5 ho	urs
				16.3.	Hor	ne learning		10 h	ours
17.			hodology		•		T		
	17.1.						70 poin	nts	
	17.2.	17.2. Seminar (paper/proje and/or oral)				esentation: written	10 poin	nts	
	17.3.	Activ	ity and parti	icipati	on		20 poin	nts	
18.	Gradi	ng sys	stem	up	to 50	points	5 (five)	(F)	
) points	6 (six)	(E)	
) points	7 (seve	n) (D)	
						points	8 (eigh		
						points	9 (nine		
	0.					0 points	10 (ten)	<u>, , , </u>	
19.			nd final	60%	60% achievement on all pre-exam activities				
20.			quisites of instruction) Ma	Macedonian				
			luation		acedonian elf-evaluation				
21.	Cours	se eva	luation	Sei	ir-eva	lluation			
22	Litera	ture							
•	22.1.	Requ	uired literatu	ire					
		No.	Author			Title	Publisher	•	Year
		1.	Milosheva,	, L.		Clinical	Faculty o	f	2013
						psychology -	Medical		
						course e-learning	Sciences		
		2.	Berger, J,	& Miti	C	Introduction to	UGD, Beograd:		2002
		۷.	M.	G IVIILI	- ,	Clinical	Primenje		2002
						Psychology	psihologi		
		3.	Milosheva,	, L.		Developmental	Stip,UGD	•	2013
				•		Psychology			
		4.	Havelka, M	1.		Health psychology	Jastrebar Naklada S		2002

	4.	Havelka, M.	Health psychology	Jastrebarsko: Naklada Slap	2002
22.2.	Sup	plementary literature			
	No.	Author	Title	Publisher	Year
	1.	Nietzel,M.T., Bernstein, D.A. & Milich, R.	Introduction to Clinical Psychology	Jastrebarsko: Naklada Slap	2002
	2.	Michie S. Abraham C.	Health Psychology in Practice	Oxford: BPS Blackwell	2004

		Publishing	

Ann	ex No.3	Course Progr	amme	- first cycle studi	ies			
1.	Course ti	itle	Fore	eign Language1 (E	nglish	1)		
2.	Code							
3.		ogramme		Medical nurses / Medical Technicians				
4.		er of the study	l l	ulty of Medical Sci				
	_	me(unit or	Univ	ersity Goce Delce	ev.			
	institute,							
_	departme	•	F-1	First such				
5.		studies (first,	First	t cycle				
6		third cycle)	firet		7	M		1.4
6.	Academi semester	•	first	semester	7.	Number of credits	PΤ	4
8.		/Instructor(s)	DhD	Dusko Aleksovs	 	Credits		
0.	Lecturer	ilistructor(s)		Biljana Ivanovska				
				Tole Belčev	a			
				Snezana Kirova				
9.	Required	I prerequisite	1017	<u> </u>				
	courses	12. 0. 0 danoiro						
10.	Course o	bjectives:						
		ication skills						
	Expressing opinion							
	Hearing s	skills						
		g and skimmin	g					
	Writing s							
		ary enhance						
	Gramma							
	Receptio	n and product	ion of	English in spoken	and w	ritten cont	ext	
11.	Course c	ontent:						
			esent 1	tenses, word-form	ation -	adjectives	indire	ct
	speech, a		COCIII (iciiscs, word form	ation	aajeonves	, man c	
		•	comm	nunication, expres	sing fe	elings and	emotic	ns, job
		•		ces, furniture, des	_	•		
	•	acter, lifestyle		-	•		• •	
	- Reading	g: multiple cho	ice qu	estions, gapped s	entenc	es		
	- Listenir	•						
	-	• • •		on, making sugge		•	_	ions,
	•	• •	•	ing wishes, regret	ts, mak	ing sugge	stions;	
40		: letters, report	s, ess	ays.				
12.		nethodology:		la atuma a di como	l		!	da la = 4 c
				lectures, homewo	, .	•	•	•
13.		iver earning te ilable time	cimiqu	ıes, individual tas 120	ns, IIIa	ependent i	ear ming) •
14.				0+0+4				
	4. Distribution of available 0+0+4 time							
15.		instruction	15.1.	lectures - theore	tical te	aching		
						3		
			15.2.	Seminar project,	teamw	ork/		
16.	Other for	ms of	16.1.	Project tasks			60 hou	urs
							1	

	activi	ties	16.2.	Individual tasks		15 hours	
			16.3.	Home learning		45 hours	
17.	Cours	se methodology				1	
	17.1. Tests				70 poir	nts	
	17.2. Seminar (paper/pr and/or oral)			oject - presentation: written 10 poir		nts	
	17.3.	Activity and part	icipati	pation		nts	
18.	Grading system			to 50 points	5 (five)	(F)	
		_	51	to 60 points	6 (six) (E)		
			61	to 70 points	7 (seven) (D)		
			71	to 80 points	8 (eight) (C)		
			81	to 90 points	9 (nine) (B)		
				to 100 points	10 (ten	, , ,	
19.	Signature and final exam prerequisites			60% achievement on all pre-exam activities			
20.	Language of instruction			English			
21.	Course evaluation			Self-evaluation			

22.	Litera	ture								
		Requ	uired literature							
		No.	Author	Title	Publisher	Year				
	22.1.	1.	Virginia Evans and Jenny Dooley	Upstream - Intermediate	Express Publishin g	2002				
		2.								
		3.								
		Supplementary literature								
		No.	Author	Title	Publisher	Year				
	22.2.	1.	Oxford Practice Grammar	John Eastwood	OUP	2009				
		2.	Practical English Usage	Michael Swan	OUP	2005				

Ann	ex No.3		ramme	- first cycle studi	es				
1.	Course	e title	Fore	eign Language1 (It	alian la	nguage 1)			
2.	Code		1 010	<u> </u>		gg,			
3.	Study	Programme	Med	ical nurses / Medic	cal Tec	hnicians			
4.		izer of the study	Faci	ulty of Medical Sci	ences				
	_	amme(unit or	Univ	ersity Goce Delce	v Stip				
		te, Faculty,							
_	depart								
5.		of studies (first,	Firs	t cycle					
6.		d, third cycle) mic year /	firet	semester	7.	Number o	ıf	4	
0.	semes	_	11130	Schlester	٠.	credits	'	•	
8.		er/Instructor(s)	PhD	Dusko Aleksovsk	 ;i	Ol Gallo			
		(-)		. Biljana Ivanovsk					
			PhD Tole Belčev						
	MA Snezana Kirova								
9.	Required prerequisite								
40	courses								
10.	Course objectives (competencies): Introduction to basic, everyday vocabulary, basic grammar rules and tenses								
11.									
			ocabulary, practicing reading skills, listening, speaking						
	and w		, command, practically reasoning crime, meterining, epecianing						
			reading	eading and writing					
	Basic grammatical categories (nouns, adjectives, personal pronouns, present								
			definite	articles, prepositi	ions).				
12.		e methodology:	4.	41 1					
				nethod: group wor	•	•	•		
13.		ssion, debate, co available time	operati	ive learning techni │120	iques, i	naividuai i	asks		
14.		oution of availabl	<u> </u>	0+0+4					
17.	time	dion of available		07074					
15.		of instruction	15.1.	lectures - theoret	tical tea	aching			
			15.2.	Exercises					
				(laboratory,theor	etical),	Seminar			
				project, teamwor	k				
16.	Other activiti	forms of	16.1.	Project tasks			60 hou	ırs	
	dottviti		16.2.	Individual tasks			15 hou		
	16.3			Home learning		45 hoւ	ırs		
17.	Interac coope	rative learning to		rk, lectures, home	work, d			€,	
	17.1. Tests 70 hours								
	1			ect - presentation: written 10 hours			rs		
l l		and/or oral) Activity and par							

18.	Grading system	up to 50 points	5 (five) (F)			
		51 to 60 points	6 (six) (E)			
		61 to 70 points	7 (seven) (D)			
		71 to 80 points	8 (eight) (C)			
		81 to 90 points	9 (nine) (B)			
		91 to 100 points	10 (ten) (A)			
19.	Signature and final exam prerequisites	60% of the written examination success				
20.	Language of instruction	Italian and Macedonian				
21.	Course evaluation	Self-evaluation and evaluation	Self-evaluation and evaluation by students			

22	Literature									
-		Required literature								
		No.	Author	Title	Publisher	Year				
	22.1.	1.	MARIN,T. & MAGNELLI,S.	Progetto italiano 1, nuovo (Libro dello studente)	Edilingua					
		2.	MARIN,T. & MAGNELLI,S.	Progetto italiano 1, nuovo (Quaderno degli esercizi)	Edilingua					
		Supp	olementary literature)	•					
	22.2.	No.	Author	Title	Publisher	Year				
		1.								

Ann	ex No.	_	e Progra	amme	- first cycle studi	es				
1.	Cours	e title		Fore	eign language 1 (G	erman	language 1	1)		
2.	Code									
3.	Study	Programi	me	Med	ical nurses / Medic	cal Tec	hnicians			
4.		izer of the		Faci	ulty of Medical Sci	ences				
		amme(uni		Univ	ersity Goce Delce	V				
	institu	ıte, Facult	y,		•					
		tment)								
5.		of studies		Firs	First cycle					
		d, third cy								
6.		emic year	<i>l</i>	first	semester	7.	Number o	f	4	
	seme	ster					credits			
8.	Lectu	rer/Instruc	ctor(s)	PhD Dusko Aleksovski						
					Biljana Ivanovska	1				
					Tole Belčev					
•					MA Snezana Kirova					
9.	cours	Required prerequisite Enrolled first year courses								
10.		Course objectives (competences): To obtain basic knowledge of everyday vocabulary								
11.		e content			,					
	Introd	uction to	basic vo	cabul	ary, practicing rea	ding s	kills, listeni	ing, spe	aking	
		riting.				•	·	•		
12.	Course methodology:									
					ethod: group work				apers,	
				perati	ve learning techni	iques, i	individual t	asks,		
		endent lea			T					
13.		available t			120					
14.	time	oution of a)	0+0+4					
15.	Forms	s of instru	ction	15.1.	lectures - theoret	eoretical teaching				
				15.2.	Exercises(laboratory,theoretical), Seminar, teamwork					
16.	Other	forms of		16.1.	Project tasks			60 hou	urs	
	dotivi			16.2.	Individual tasks			15 hou	urs	
				16.3.	Home learning			45 ho	urs	
17.	Intera debat	e, coopera	nod, gro	•	rk, lectures, home techniques, individ			cussior	١,	
	17.1.	Tests					70 poir	nts		
	17.2.	Seminar and/or or		projec	t - presentation: w	ritten	10 poir	nts		
	17.3.	Activity a		icipati	on		20 poir	nts		
18.	Gradi	ng system	-		to 50 points		5 (five)			
· •		5 5,5tem								
				51	to 60 points		6 (six)	(E)		

		61 to 70 points	7 (seven) (D)			
		71 to 80 points	8 (eight) (C)			
		81 to 90 points	9 (nine) (B)			
		91 to 100 points	10 (ten) (A)			
19.	Signature and final exam prerequisites	60% achievement on all pre-exam activities				
20.	Language of instruction	German and Macedonian				
21.	Course evaluation	Self-evaluation				

2.	Literature										
		Requ	ired literature								
		No.	Author	Title	Publisher	Year					
	22.1.	1.	Elke Günzel,	Ankommen in Deutschland, Lehrwerk für Deutsch als Fremdsprache	Verlag für Deutsch	1997					
		2.	Klett Verlag	Grammatik mit Sinn und Verstand	Klett Verlag, Мьпсhen	2000					
		3.	Engel, U	Deutsche Grammatik	Heidelberg: Gross.	1996					
		Supplementary literature									
		No.	Author	Title	Publisher	Year					
	22.2.	1.	DUDEN	Grammatik der deutschen Sprache	Mannheim/ Wien/Zürich : Dudenverla g (=Der Duden in 12 Bänden Bd. 4).	1995					
		2.	Grčeva, R./Rau, P.	Golem makedonsko- germanski/germans ko-makedonski rečnik	Skopje, Magor	2006					

Ann	ex No.3	ourse Progra	amme	- first cycle studi	es			
1.	Course title		Fore	sign language 1 (Fi	ronch	anguago 1	1	
2.	Code	5	Fore	eign language 1 (F	encn	anguage i	,	
			Mod	ical nurses / Medic	aal Taa	hnisiana		
3. 4.	Study Prog					nnicians		
4.				ulty of Medical Sci versity Goce Delce				
5.	Level of stu	udies (first, ird cycle)	First	cycle				
6.	Academic semester		first	semester	7.	Number o	f	4
8.	Lecturer/In	structor(s)						
9.	Required prerequisite courses							
10.	Course objectives (competences): Acquiring skills for oral and written comprehension and expression in given situations.							
	Course content: Basic rules of pronunciation Verb groups and their variations Nouns (gender and number) Personal pronouns Adjectives Formation of negation Ordinal numbers Basic vocabulary							
12.	Seminar pr	•		nethod: group wor ve learning techni		•		apers,
13.	Total availa	able time		120				
14.	time	n of available	e	0+0+4				
15.	Forms of in	nstruction	15.1.	lectures - theoret	ical te	aching		
			15.2.	Exercises (labor theoretical), Sem		eamwork		
16.	Other form activities	s of	16.1.	Project tasks			60 hou	ırs
	35071000		16.2.	Individual tasks			15 hou	
			16.3.	Home learning			45 hou	urs
17.		thodology: method, gro	up wo	rk, lectures, home	work, _l	papers, dis	cussio	n,

	debat	e, cooperative learn	ing techniques, individual tas	ks	
	17.1.	Tests		70 points	
	17.2.	Seminar (paper/pr and/or oral)	10 points		
	17.3.	Activity and partic	ipation	20 points	
18.	. Grading system		up to 50 points	5 (five) (F)	
			51 to 60 points	6 (six) (E)	
			61 to 70 points	7 (seven) (D)	
			71 to 80 points	8 (eight) (C)	
			81 to 90 points	9 (nine) (B)	
			91 to 100 points	10 (ten) (A)	
19.	_	ture and final prerequisites	60% achievement on all pre-exam activities		
20.	Langi	uage of instruction	French and Macedonian		
21.	Cours	se evaluation	Self-evaluation		

22.	Literature										
		Required literature									
		No.	Author	Title	Publisher	Year					
	22.1.	1.	Guy Capelle, Robert Menand	Taxi! 1 Méthode de français	Hachette	2002					
		2.	Guy Capelle, Robert Menand	Taxi! 1 Méthode de français. Cahier d'exercices	Hachette	2002					
		3.									
		Supplementary literature									
		No.	Author	Title	Publisher	Year					
	22.2.	1. ATANASOV, POPOSKI, KALAJLIEVSKA		Francusko - makedonski rečnik	Prosvetno delo	1992					
		2.	POPOSKI, ATANASOV	Makedonsko - francuski rečnik	Prosvetno delo	1992					

Ann	Annex No.3 Course Programme - first cycle studies								
4	0		!dl -	F	·!···· 1-······ 4 /0·	! . !		4\	
1. 2.	Code	se t	itie	Fore	eign language 1 (S _l	panisn	Language	1)	
3.		Dr	oarommo	Mod	ical nurses / Medic	al Taal	nioiono		
3. 4.			ogramme				inicians		
4.	Organizer of the study Programme(unit or institute, Faculty, department)				Faculty of Medical Sciences University Goce Delcev				
5.			studies (first, third cycle)	Firs	t cycle				
6.			ic year /	first	semester	7.	Number o	f	4
	semes						credits		
8.	Lectu	rer	/Instructor	PhD PhD	PhD Dusko Aleksovski PhD Biljana Ivanovska PhD Tole Belčev MA Snezana Kirova				
9.	Required prerequisite none courses								
10.	Course objectives (competences) Basic everyday vocabulary								
11.	Course content: Reading and writing rules Basic grammatical structures Nouns Adjectives Present tense Past tense								
12.	Cours Semir	se r	nethodology: project, intera		nethod: group wor ive learning techni				papers,
13.			ailable time	орстат	120	ques, ii	idividuai t	asks	
14.			ion of available	le	0+0+4				
15.	Forms	s o	finstruction	15.1.	lectures - theoret	ical tea	ching		
				15.2.	Exercises(labora Seminar, teamwo	s(laboratory,theoretical), teamwork			
16.	Other activit		rms of	16.1.	Project tasks			60 ho	urs
				16.2.	Individual tasks			15 hou	
				16.3.	Home learning			45 ho	urs
17.	Intera debat	ctive, c	cooperative lea	•	rk, lectures, home techniques, individ	, ,	ks		n,
	17.1. Tests 70 point				ıts				
	17.2.		eminar (paper nd/or oral)	/projec	ect - presentation: written 10 points		its		
	17.3.		ctivity and par	ticipati	on		20 poir	its	

18.	Grading system	up to 50 points	5 (five) (F)		
		51 to 60 points	6 (six) (E)		
		61 to 70 points	7 (seven) (D)		
		71 to 80 points	8 (eight) (C)		
		81 to 90 points	9 (nine) (B)		
		91 to 100 points	10 (ten) (A)		
19.	Signature and final exam prerequisites	60% achievement on all pre-exam activities			
20.	Language of instruction	Spanish and Macedonian			
21.	Course evaluation	Self-evaluation			

22.	Literature											
		Requ	Required literature									
		No. Author		Title	Publisher	Year						
	22.1.	1.	Ramon Sarmiento	"Gramatica progresiva de español para extranjeros"	"Colibri", Софија	1998						
		2.	A. Jarvis, R. Lebredo, F. Mena- Ayllón	"Basic Spanish Grammar"	Houghton Mifflin Company -USA	2000						
		3.										
		Supplementary literature										
		No.	Author	Title	Publisher	Year						
	22.2.	1. A. Gonzales Hermoso, J. R. Cuenot, M. Sanchez Alfaro		"Gramatica de español lengua extranjera"	Madrid. Spanija							
		2.	Cristina Karpacheva	"Manual de español"	Sofija	1998						

Ann	ex No.3	Course Progr	amme	- first cycle studi	es			
1.	Course t	itle	Fore	eign language 1 (R	ueeian	language	1)	
2.	Code	iiiie	1 010	ign language i (iv	ussiaii	laliguage	<u>')</u>	
3.		rogramme	Mod	ical nurses / Medic	cal Toc	hniciane		
<u>3.</u> 4.		er of the study		ulty of Medical Sci		IIIICialis		
4.		me(unit or		rersity Goce Delce				
	_	, Faculty,	Oniv	ersity Goce Deice	V			
5.		studies (first, third cycle)	First	t cycle				
6.	Academ semeste	ic year /	First	semester	7.	Number o	f	4
8.	Lecturer	/Instructor(s)	PhD	Dusko Aleksovsk	i			
		. ,	PhD	Biljana Ivanovska	1			
	PhD Tole Belčev							
	MA Snezana Kirova							
9.	Required prerequisite none courses							
10.	Course objectives (competences)							
				age at basic level o	of profi	ciencv		
				day vocabulary		,		
	To develop reading and writing habits							
11.	Course							
	The alph							
	_	ammatical cate	egoris					
	Nouns							
		l pronouns						
		ve pronouns						
	Greeting							
	Asking v	vuestions						
	Kinshi te	erms						
12.		methodology:				_		
	discussi	on, debate, co		nethod: group wor ve learning techni	•	•	, ,	apers,
13.	Total ava	ailable time		120				
14.	Distribut time	tion of available	е	0+0+4				
15.	Forms o	f instruction	15.1.	lectures - theoret	ical tea	aching		
			15.2.	Exercises(labora Seminar, teamwo		eoretical),		
16.	Other fo		16.1.	Project tasks			60 hou	ırs
	aonvines	•	16.2.	Individual tasks			15 hoւ	
			16.3.	Home learning			45 hoւ	ırs
17.	Course methodology:							

		Interactive method, group work, lectures, homework, papers, discussion, debate, cooperative learning techniques, individual tasks							
	17.1.	Tests		70 points					
	17.2. Seminar (paper/pr		oject - presentation: written	10 points					
	17.3.	Activity and partic	ipation	20 points					
18.	Gradi	ng system	up to 50 points	5 (five) (F)					
			51 to 60 points	6 (six) (E)					
			61 to 70 points	7 (seven) (D)					
			71 to 80 points	8 (eight) (C)					
			81 to 90 points	9 (nine) (B)					
			91 to 100 points	10 (ten) (A)					
19.	_	ture and final prerequisites	60% achievement on all pre-exam activities						
20.	Langu	lage of instruction	Macedonian and Russian						
21.	Cours	e evaluation	evaluation Self-evaluation						

22.	Literature										
		Required literature									
		No.	Author	Title	Publisher	Year					
	22.1.	1.	L.V. Moskovkin	Russkiy yazyk – Uchebnik dlya inostrannykh studentov podgotovitel'nykh fakul'tetov	SMIO PRESS, St.Petersbur g	2006					
	22.2	Supp	lementary literature								
	22.2.	No.	Author	Title	Publisher	Year					

Ann	ex No.3	Course Progra	mme	- first cycle stud	ies		
1.	Course ti	tle	S	Sport and recreation			
2.	Code			JGD102712			
3.	Study Programme			Seneral Medicine			
4.	_	r of the study		University Goce [•	
		ne (faculty/	F	aculty of Medica	Scier	nces	
		department)	<u>_</u>				
5.		studies (first,	F	irst cycle			
_		hird cycle)		:	NI	h a n a f	•
6.	Academi	c year / semester		irst 7.	credi	ber of	0
0	Locturor	Inctructor(c)		emester Associate Prof. Bi			
8. 9.		Instructor(s) prerequisite	A	issuciale Fiul. Bi	ijana i	-upeska	
3.	courses	prerequisite					
10.		objectives (compe	atenco	<i>ie)</i> .			
10.		nent of students i					
11.	Course c			abilitioo			
		ysical preparation	า				
		, martial arts and		astics			
		activities - hiking					
	Basketba	_					
	Table ten	nis and badminto	on				
	Volleybal	I					
		notor abilities, mo					
12.		nethodology: prac	ctical e	· -	aining		
13.		ilable time		30 hours			
14.		on of available ti		0+0+2/ per week			
15.	Forms of	instruction	15.1	lectures / theoretical		0	
				- contact teach	ıng,		
			45.0	e-teaching		00 1	_
			15.2	theoretical and practical exerc		20 hour	S
				•	ses,		
				e-exams, independent			
				seminar projec	+		
16.	Other for	ms of activities	16.1	Project tasks	•	5 hours	
10.		iiis oi activities				o nours	
			16.2	Individual tasks	5	5 hours	
			46.2	Home learning			
			16.3	Home learning			
17.	Course m	nethodology	•	•		1	
	17.1.	Tests / oral exam	ıs		0		
	17.2.	Seminar (paper	/ proie	ct - presentation	: 0		
		written and/or or		1			
	17.3.	Activity and part		on	0		
18.	Grading			up 50 points	5.0	(five) (F)	
10.	J. adilig	-,	_	51 to 60 points		(six) (E)	
				61 to 70 points		seven) (D)
<u> </u>					1 - 1	/ (5	1

		71 to 80 points	8 (eight) (C)		
		81 to 90 points	9 (nine) (B)		
		91 to 100 points	10 (ten) (A)		
19.	Signature and final exam prerequisites	60% presence on the practical activities			
20.	Language of instruction	Macedonian			
21.	Course evaluation				

		Required literature							
		No	Author	Title	Publisher	Year			
2	22.1	1	Kukolj.M	Antropomotorika	Faculty of sport and physical education, Belgrade	2006			
		2	Wilmore, J. & Costill, D.	Physiology of sport and exercise, (Third edition),	Champaign: Human Kinetic, Illinois.	2002			
		3	Malacko,J.	Bases of sports training (Osnove sportskog treninga)	Sports academy, Belgrade	2000			
		Supplementary literature							
		No	Author	Title	Publisher	Year			
2	22.2	1	Haywood, K., & Getchell, N.	Life span motor development	Champaign: IL. Human Kinetics.	2004			
		2	Magill, R. & Rouge.B	Motor Learning	Broun Publishers, Louisiana	1989			
		3	Malina, R., Bouchard, C. & Bar – Or, O	. Growth, Maturation and Physical Activity (Second Edition).	Champaign: IL. Human Kinetics.	Malina, R., Boucha			

٩nr	nex No.3	Carrage Dragge	ware first such stud	l!						
		Course Progra	nmme - first cycle stud	lies						
1.	Course	title	Physiology							
2.	Code									
3.	Study P	rogramme	Medical nurses / Med	ical Ted	chnicians					
4.	Organiz	er of the study	Faculty of Medical Sc	iences						
	Program	me(unit or	University Goce Delce	ev						
	institute	, Faculty,	-							
	departm	ent)								
5.		studies (first,	First cycle							
		third cycle)								
6.	Academ		Second semester	7.	Number of	4				
	semeste				credits					
8.		/Instructor	Asst. Prof. Darko Boshnakovski							
9.	-	d prerequisite								
	courses		<u> </u>							
10.			pjectives (competences):							
	Principals of normal functioning of the human body and basic mechanisms of									
	normal t	normal functioning of individual organ systems.								
11.	Course	nontont:								
١١.		Course content: Theoretical instruction								
			ology-functional organi	ization	and general ho	dy cell				
	organiza			Zation	and general bo	ay cen				
	_	fluids and elect	rolytes, blood							
		ovascular syste								
		us system								
		e system								
		•								
		ratory system								
	7. Diges	•								
	7. Diges 8. Urina	ratory system tive system								
	7. Diges 8. Urina 9. Repro	ratory system tive system ry system								
	7. Diges 8. Urina 9. Repro 10. Endo	ratory system tive system ry system oductive system								
	7. Diges 8. Urina 9. Repro 10. Endo 11. Ther	ratory system tive system ry system ductive system ocrine system								
	7. Diges 8. Urina 9. Repro 10. Endo 11. Ther 12. Sens	ratory system tive system ry system ductive system ocrine system moregulation a								
	7. Diges 8. Urina 9. Repro 10. Endo 11. Ther 12. Sens Practica	ratory system tive system y system ductive system ocrine system moregulation ar sory system I instruction		ood pla	asma					
	7. Diges 8. Urinar 9. Repro 10. Endo 11. Ther 12. Sens Practica 1. Basic	ratory system tive system y system ductive system ocrine system moregulation ar sory system I instruction elements and fo	nd metabolism	•	asma					
	7. Diges 8. Urinal 9. Repro 10. Endo 11. Ther 12. Sens Practica 1. Basic 2. Neuro	ratory system tive system y system ductive system ocrine system moregulation ar sory system I instruction elements and fo	nd metabolism unction of blood and bl	•	asma					
	7. Diges 8. Urinar 9. Repro 10. Endo 11. Ther 12. Sens Practica 1. Basic 2. Neuro 3. Endo	ratory system tive system ry system ductive system ocrine system moregulation ar sory system I instruction elements and formuscular system crine glands	nd metabolism unction of blood and bl	ion		on				
	7. Diges 8. Urinar 9. Repro 10. Endo 11. Ther 12. Sens Practica 1. Basic 2. Neuro 3. Endo 4. Heart	ratory system tive system by system ductive system ocrine system moregulation ar sory system I instruction elements and formuscular system crine glands and heartbeat, formuse,	nd metabolism unction of blood and bl em, mioneural connect	ion		on				
	7. Diges 8. Urinar 9. Repro 10. Endo 11. Ther 12. Sens Practica 1. Basic 2. Neuro 3. Endo 4. Heart 5. Syste	ratory system tive system by system buctive system buctive system buction are sory system linstruction elements and formuscular system and heartbeat, for respiration are spiration are spiration are spiration are system of the	nd metabolism unction of blood and blem, mioneural connect	ion		on				

- 7. Saliva, gastric juice, gall 8. Urinary system
- 9. Female reproductive system
- 10. Male reproductive system
- 11. Determination of calorific value of nutrients
- 12. Thermometers, thermoregulation and hypothermia
- 12. Course methodology:

Theoretical inst	ruction
------------------	---------

Interactive teaching: lectures in large groups, discussions and engaging students.

Multimedia teaching.

E-learning.

On-line contact with students.

Individual consultations with students and consultation groups.

Practical instruction

Practical laboratory exercises in small groups.

Auditorium exercises.

Final exercises.

13.	Total available time		120			
14.	Distribution of available time	е	2+1+1			
15.	Forms of instruction	15.1.	1. lectures - theoretical teaching		30 hours	
		15.2.	Exercises(laboratory,theo Seminar project, teamwor		15 hours	
16.	Other forms of activities	16.1.	Project tasks		15 hours	
	activities	16.2.	Individual tasks		15 hours	
		16.3.	Home learning		45 hours	
17.	Course methodology					
	17.1. Tests		70 poir roject - presentation: written 10 poir ipation 20 poir		its	
	17.2. Seminar (paper and/or oral)	/projec				
	17.3. Activity and par	ticipati				
18.	Grading system	up	to 50 points	5 (five) (F)		
		51	to 60 points	6 (six)	(E)	
		61	to 70 points	7 (seve	n) (D)	
			to 80 points	8 (eigh		
			to 90 points	9 (nine)		
			to 100 points	10 (ten)		
19.	Signature and final exam prerequisites		% achievement on all pre-ex	xam activ	/ities	
20.	Language of instruction	n Ma	cedonian			
21.	Course evaluation	Sel	f-evaluation			

22	Literature							
		Required literature						
		No.	Author	Title	Publisher	Year		
	22.1.	1.	Gayton C.A Medical naklada, Zagreb.	Physiology of man and disease mechanisms.	Medicinska naklada, Zagreb	1995		
		2.	Trajkovski V.	Physiology with Functional Anatomy	of Philosophy, Institute of Defectology,	2007		

				Skopje.	
	3.	Icko Gorgoski, and Mitko I. Mladenov	Physiological practicum	Faculty of natural sciences and mathematics , Skopje	2006
	Supp	olementary literature			
	No.	Author	Title	Publisher	Year
22.2.	1.	Trajkovski V, Rasic O	Practicum on physiology with functional anatomy	Faculty of Philosophy, Institute of Defectology, Skopje.	2008
	2.	Physiology	Linda Costanzo	Saunders	2006
	3.	Human Physiology: The Mechanisms of Body Function - 8th Edition	Arthur Vander and James Sherman and Dorothy Luciano	McGraw-Hill Education	2006

Anr	nex No.3	Course Progra	ımme - first cycle stu	udies		
1.	Course ti	tle	Biochemistry			
2.	Code					
3.	Study Programme		Medical nurses / Me	dical Te	echnicians	
4.			Faculty of Medical Sciences University Goce Delcev			
5.		studies (first, hird cycle)	First cycle			
6.	Academic semester	•	Second semester	7.	Number of credits	4
8.	Lecturer/	Instructor(s)	Asst. Prof.Tatjana R	uskovs	ka	•
9.	Required courses	prerequisite	No requirements			

10. | Course objectives (competences)

To obtain knowledge about chemical composition of the human body and basic biochemical reactions within it.

To gain knowledge about the diagnostic significance of some of the most common clinical-biochemistry parameters.

During the practical education, students will learn the basic principles of the work in biochemical laboratories and learn how to perform some of the qualitative and quantitative biochemical analyses.

11. Course content:

Definition of biochemistry

Water and minerals: Sodium, potassium, chlorides, bicarbonates. Acid-based balance

Proteins1: Amino acids. Peptides. Proteins. Basics of metabolism of proteins.

Proteins 2: Proteins in blood plasma. Hemoglobin: role, chemical structure and catabolism. Bilirubin

Enzymes 1: Enzymes properties. Nomenclature and classification. Active center. Kinetics of the enzyme reactions

Enzymes 2: Basics of clinical enzymology. Diagnostic significance of certain enzymes

Lipids 1: Properties and classification of lipids

Lipids 2: Basics of lipids metabolism. Lipoproteins in blood plasma

Carbohydrates 1: Monosaccharides. Oligosaccharides. Polysaccharides.

Carbohydrates 2: Basics of carbohydrates metabolism. GTT and alycosylated *haemoglobin*

Nucleic acids

Vitamins: Properties and classification

Basic protection principles in biochemistry laboratories

Collecting venous and capillary blood sample. Prevention of errors in preanalytic phase.

Pipetting technique. Photometry technique.

Proteins 1: Precipitation and denaturation of proteins.

Proteins 2: Qualitative and quantitative determination of proteins with biuret reaction. Albumins.

Enzymes: Influence of activators and inhibitors on the activity of the amylaze in the saliva.

Lipids 1: Solubility of the lipids. Determination of cholesterol according to the Salkowski method.

Lipids 2: Determination of cholesterol concentration in serum (enzyme quantitative method).

Lipids 3: Determination of triacylglycerols concentration in serum (enzyme quantitative method).

Carbohydrates 1: Fehling reaction. Determination of glucose concentration in serum (GOD-PAP method).

Carbohydrates 2: Determination of glucose concentration (hexokinase).

Carbohydrates 3: Glucose meter. Determination of glucose concentration and ketone bodies in urine.

12. Course methodology:

Theoretical tuition

Interactive teaching: Lectures in large groups

Multimedia teaching.

E-teaching.

Consultation in groups and individually.

Practical tuition

Laboratory experiments in small groups.

Final experiments.

13.	Total available time		120		
14.	Distribution of available time		2+1+1		
15.	Forms of instruction	15.1.	lectures - theoretical teaching	30 hours	
		15.2.	Exercises(laboratory, theoretical), Seminar project, teamwork	15 hours	
16.	Other forms of activities	16.1.	Project tasks	15 hours	
		16.2.	Individual tasks	15 hours	
		16.3.	Home learning	45 hours	
17.	Course methodology: Interactive method, gr		rk, lectures, homework, papers, d	iscussion,	

debate, cooperative learning techniques, individual tasks

	17.1.	Tests		70 points		
	17.2.	Seminar (paper/prand/or oral)	10 points			
	17.3.	Activity and partic	20 points			
18.	Gradi	ng system	up to 50 points	5 (five) (F)		
			51 to 60 points	6 (six) (E)		
			61 to 70 points	7 (seven) (D)		
			71 to 80 points	8 (eight) (C)		
			81 to 90 points	9 (nine) (B)		
			91 to 100 points	10 (ten) (A)		
19.	_	ture and final prerequisites	60% achievement on all pre-e	exam activities		
20.	Langi	uage of instruction	Macedonian			

21.	Course evaluation	Self-evaluation

22.	Literat	ure							
		Requ	ired literature						
		No.	Author	Title	Publisher	Year			
		1.	Tatjana Ruskovska	Basics of Biochemistry - lectures	UGD Stip, Faculty of Medical Sciences	2012			
		2.	Tatjana Ruskovska	Basics of Biochemistry - practicum	UGD Stip, Faculty of Medical Sciences	2012			
		3.	S. Dzekova Stojkova et al.	Biochemistry	Medical Faculty, UKIM, Skopje	1999			
	22.1.	4.	Dave Nelson and Nike Cox	Lehninger, Principles of Biochemistry, 5 th edition	"Mikena" Bitola, Translated book – Project of the Governmen t - Republic of Macedonia				
	22.11	5.	Кетрин Џ. Денистон, Џозеф Џ. Топинг, Роберт Л. Карет	General, organic and biochemistry	Translated book – Project of the Governmen t - Republic of Macedonia				
		6.	Маргарет, М. Гингрич, Пени Овербај и Мери Џин Ричи	Fluids, electrolytes and acid-base balance	Translated book – Project of the Governmen t - Republic of Macedonia				
		7.	Мајкл Л. Бишоп, Едвард П. Фоди, Лари Е. Шоеф	Clinical chemistry (principles, procedures and correlations) – Fifth edition	Prosvetno delo, Skopje Translated book – Project of the Governmen	2009			

	8.	Александар К. Брауни, Џон К. Керноан	Medical biochemistry	t - Republic of Macedonia Translated book – Project of the Governmen t - Republic of Macedonia				
	Supplementary literature							
	No.	Author	Title	Publisher	Year			
22.2.	1.	J. Koolman and K.H. Roehm	Color Atlas of Biochemistry, Second edition, revised and enlarged	Thieme, Stuttgart – New York	2005			
	2.	Peter Karlson	BIOKEMIJA, za studente kemije i medicine	Školska knjiga, Zagreb	1993			

Anr	Annex No.3 Course Programme - first cycle studies						
1.	Course title	Micr	obiology with para	asitolog	<u>IY</u>		
2.	Code	Mad	Medical nurses / Medical Technicians				
3.	Study Programme				nnicians		
4.	Organizer of the study Programme(unit or institute, Faculty, department)	Univ	Faculty of Medical Sciences University Goce Delcev				
5.	Level of studies (first, second, third cycle)	First	t cycle				
6.	Academic year / semester	Sec	ond semester	7.	Number o	f	6
8.	Lecturer/Instructor(s)	DhD	Vaso Taleski		Credits		
9.	Required prerequisite	FIID	Vaso Taleski				
	courses						
10.	O. Course objectives (competences) To learn and acquire solid theoretical and practical knowledge in the field of microbiology.						
	11. Course content: History and development of microbiology, important breakthroughs, importance of microorganisms, bacteria classification, construction, distribution, chemical composition, growth and reproduction, metabolism, genetics, pathogenicity, virulence, immune reactions, Immune and immunotherapy, sterilization, disinfection, resistance, important antimicrobial drugs The most important bacteria, viruses, fungi and parasites. Behavior in microbiological laboratory, microscopes and microscopic studies of microorganisms, sampling, packaging and dispatch of material for microbiological examination; Microbiological diagnosis of respiratory infections, urinary and sexually transmitted infections, bacterial enteropathogens; virological diagnostic methods (Hepatitis, HIV infection),						
12.	mycological and paras Course methodology:	itic dis	cases.				
13.	•		180				
14.	Distribution of availabl time	e	2+3+1				
15.	Forms of instruction	15.1.	lectures - theoret	ical tea	ching	30 hou	ırs
		15.2.	Exercises(labora Seminar, teamwo		eoretical),	45 hoւ	ırs
16.	Other forms of activities	16.1.	Project tasks			15 hoւ	ırs
	GOUVIUGO	16.2.	Individual tasks			15 hoւ	ırs
		16.3.	Home learning			75 hou	ırs
17.	Course methodology						
	17.1. Tests				70 poin	its	
	17.2. Seminar (paper	projec	t - presentation: w	ritten	10 poin	its	

		and/or oral)		
	17.3.	Activity and partic	ipation	20 points
18.	Grading system		up to 50 points	5 (five) (F)
			51 to 60 points	6 (six) (E)
			61 to 70 points	7 (seven) (D)
			71 to 80 points	8 (eight) (C)
			81 to 90 points	9 (nine) (B)
			91 to 100 points	10 (ten) (A)
19.		ture and final prerequisites	60% achievement on all	pre-exam activities
20.	Langi	uage of instruction	Macedonian	
21.	Cours	se evaluation	Self-evaluation	

22	Litera	ture						
-		Requ	uired literature					
		No.	Author	Title	Publisher	Year		
	22.1.	1.	D. Greenwood. and co.	Medical Microbiology	Project of the Governm ent of the R.Maced onia	17th edition, 2006 translation of books 2011		
		2.	Panovski Nichola and co., Guest author: Vaso Taleski	Medical Microbiology- general part	Departme nt of Microbiol ogy and parasitol ogy, FM, Skopje	2011		
		3.	Panovski Nichola and co., Guest author: Vaso Taleski	Medical Microbiology- special part	Departme nt of Microbiol ogy and parasitol ogy, FM, Skopje	2011		
		Supplementary literature						
	22.2.	No.	Author	Title	Publisher	Year		
		1.	Vaso Taleski	Microbiology	Authorized lectures	2008		
		2.	Milena Petrovska and co.	"Practicum in Medical Microbiology and Parasitology "	Departmen t of Microbiolo gy and Parasitolo gy, FM, Skopje fifth edition	2010		

Ann	ex No.3	ourse Progr	amme	- first cycle studi	ies			
1.	Course title	.	Nurs	sing care				
2.	Code							
3.	Study Prog	ramme	Med	Medical nurses / Medical Technicians				
4.		of the study		ulty of Medical Sci				
	Programme institute, Fa	e(unit or		ersity Goce Delce				
	department	• •						
5.	Level of stu		First	cycle				
	second, thi			•				
6.	Academic y		Sec	ond semester	7.	Number o	f	7
	semester	•				credits		
8.	Lecturer/Ins	structor(s)	Ass	ociate Prof. Gorda	na Pan	ova		l
9.	Required p							
	courses	•						
10.	Course obj	ectives (con	npeten	ces)				
	Nurse`s rol	e `	-	•				
	Nurse-patie	ent relations	hip					
	Emergency	cases	-					
	Taking tem	perature						
	Taking bloc	od pressure						
			ollapse	apse and coma				
	Post surgica	al care etc						
11.	Course cor	ntent:						
	Introductio	n;						
				I hospital service;				
	Hospital ro	om, hospita	I bed a	nd hospital beddi	ngs;			
	Emergency	•						
		iet; Mental h		are				
	_	ng ital signs						
		tests on par						
			urinatio	on and vomiting;				
	Medication	•						
	Injection sh	•						
				m infection;				
		echnical ope						_
			actic si	hock, collapse, co	ma and	a acute res	piratory	1
	insufficiend	• • • • • • • • • • • • • • • • • • • •						
10	Post surgio		otor-st	ivo tooohina in laa	4	and 4::4a==	0 0700	tical
12.	exercises.		nteract	ive teaching in led	cures a	and tutorial	s, pract	แเสเ
13.	Total availa			120				
14.	Distribution time	n of availabl	е	2+3+1				
15.	Forms of in	struction	15.1.	lectures - theoret	tical tea	aching	30 hou	ırs
			15.2.	Exercises(labora Seminar project,	•	•	45 hou	ırs

16.	6. Other forms of activities		16.1.	Project tasks		15 hours	
	activi	ues	16.2.	Individual tasks		15 hours	
			16.3.	Home learning		75 hours	
17.	Cours	se methodology					
	17.1. Tests 17.2. Seminar (paper/p and/or oral)				70 poi	nts	
				t - presentation: written	10 poi	nts	
	17.3.	Activity and part	icipati	on	20 poi	nts	
18.	Gradi	ng system	up	to 50 points	5 (five) (F)	
		_	51	to 60 points	6 (six)	(E)	
			61	to 70 points	7 (seven) (D)		
			71	to 80 points	8 (eigh	nt) (C)	
			81	to 90 points	9 (nine	e) (B)	
			91	to 100 points	10 (ter	n) (A)	
19.	_	ture and final prerequisites	609	60% achievement on all pre-exam activities			
20.	Language of instruction			Macedonian			
21.	Cours	se evaluation	Sel	f evaluation			

	Requ	uired literature				
	No.	Author	Title	Publisher	Year	
22.1.	1.	G.Panova	Medical ethics deontology	UGD	2010	
	2.	Likar Dusan	General and special care of sick	Tabernakul Skopje	2000	
	3.	Barham. P.A.	Care of sick and medical equipment	Tabernakul Skopje	2010	
	Supplementary literature					
	No.	Author	Title	Publisher	Year	
22.2.	1.	Fuchkar G.	Process of health care	Zagreb Medical School	2007	
	2.	Krstic A.	New contents of nursing work	Medical Faculty, Belgrade	2005	
	3.		Preventive health care	Tabernakul Skopje	2011	

Ann	ex No.3 Course Programm	e - firs	st cycle studies				
4	Course title	F-					
1.	Course title Code	EC	ology and Hygie	ne			
2.							
3.	Study Programme		Medical nurses/Medical technicians				
4.	Organizer of the study		University "Goce Delcev" - Stip Faculty of medical science				
	programme (faculty/ institudepartment)			science			
5.	Level of studies (first, second, third cycle)	Fir	st cycle				
6.	Academic year / semester	80	cond 7.	Numb	or of	2	
		se	mester	credit	:S		
8.	Lecturer/Instructor(s)	As	st, Prof. Nevenk	a Velick	ova PhD		
9.	Required prerequisite						
	courses						
10.	Course objectives (competer To gain basic knowledge in and hygiene.			ology, ei	nviroment	protection	
11. 12. 13. 14. 15.	Course content: Introduction to ecology Air pollution Water pollution Waste materials Chemical components of th Climate and Microclimate Radiation, Noise Introduction to hygiene Hygiene in public and commeducation facilities hygiene Health facilities hygiene Personal hygiene Course methodology: Lectures, exercises, seminal Total available time Distribution of available time Forms of instruction	munal f	ch and practica 60 2+0+1 lectures / theor	etical -	es 30 hours	5	
	15		e-teaching theoretical and practical exerci e-exams, indep seminar project	endent		0hours	
16.	Other forms of activities	16.1.	Project tasks		15 hours	6	
		16.2.	Individual tasks	3	5 hours		
		16.3.	Home learning		10 hours	5	
17.	Course methodology	ı	<u>l</u>		1		
-	17.1. Tests / oral exams			70	points		
	17.2. Seminar (paper / pro	niect - n	resentation:		points		
	written and/or oral)	, , σ οι - μ	i cociitativii.	10	pomis		

	17.3.	Activity and participation	20 points			
18.	Gradi	ng system	up 50 points	5 (five) (F)		
			51 to 60 points	6 (six) (E)		
			61 to 70 points	7 (seven)(D)		
			71 to 80 points	8(eight) (C)		
			81 to 90 points	9 (nine)(B)		
			91 to 100 points	10 (ten) (A)		
19.	_	ture and final exam quisites	60% achievement on	all pre-exam activities		
20.	Langi	uage of instruction	Macedonian			
21.	Cours	se evaluation	Self-evaluation			

22.	Literature											
		Requ	ired literature									
	22.1.	No.	Author	Title	Publisher	Year						
		1.	Michail Kocubovski	Hygiene whit medical ecology	University of Goce Delcev - Stip	2011						
		2.	R. Čosic	Udzbenik Higiene	•	1983						
		3.	Milto Mulev	Protection of the environment		1997						
		Supp	lementary literature									
		No.	Author	Title	Publisher	Year						
	22.2.	1.	Kocijancic Radojka	Higiena	Zavod za udzbenike I nastavna sredstva, Beograd	2002						

Ann	ex No.3	Course Progra	ımme - first cycle stud	ies			
1.	Course t	itle	Epidemiology				
2.	Code						
3.	Study Pr	ogramme	Medical nurses / Medi	cal Te	chnicians		
4.	Program	er of the study me(unit or , Faculty, ent)	Faculty of Medical Sciences University Goce Delcev				
5.		studies (first, third cycle)	First cycle				
6.	Academi semeste	-	Second semester	7.	Number of credits	4	
8.	Lecturer	/Instructor(s)	Prof. Dr. Gorgi Shumanov, PhD				
9.	Required courses	d prerequisite					
10.	Course of	bjectives (com	petences)				

Acquiring of basic knowledge of epidemiology and public health. Introduction to measures of prevention, combat diseases and health deterioration. To gain knowledge of epidemiological characteristics of infectious and uninfectious diseases.

11. Course content:

Theoretical instruction

- 1. Epidemic process
- 2. Epidemiological methods
- 3. Outbreak types
- 4. Forms of epidemic process
- 5. Infection. Contagious deseases
- 6. Prevention of disease and health disorder
- 7. Preventive medical care in military and emergency conditions
- 8. Epidemiological features of intestinal infectious diseases
- 9. Epidemiological characteristics of infectious respiratory diseases
- 10. Epidemiological characteristics of infectious disease transmission
- 11. Epidemiological features of zoonoses
- 12. Epidemiological characteristics of non contagious diseases and health disorder

Practical teaching units:

- 1. Epidemiological methods and design studies
- 2. Methods of collecting information, epidemiological survey, samples
- 3. Epidemic process, forms of epidemic process, epidemiological models of disease occurrence
- 4. Epidemiological characteristics and examples of alimentary, aerogenic, contact and transmissible outbreaks
- 5. Immunization: compulsory vaccination and vaccination after epidemiological indications
- 6. Prevention of occupational exposure
- 7. Epidemiological features of intestinal infectious diseases
- 8. Epidemiological characteristics of infectious respiratory diseases
- 9. Epidemiological features of contact diseases
- 10. Epidemiological features of transmissible infectious diseases

	11. Epidemiological features of chronic, non contagious diseases 12. Epidemiological features of malignant neoplasm, diabetes, addictions.					
12.	Course methodology:lindividual assignments	_ecture	es, exercises, methods of grant papers, presentation of	roup disc	cussions,	
13.	Total available time		120			
14.	Distribution of availab	le	2+1+1			
15.	Forms of instruction	15.1.	lectures - theoretical teac	hing	30 hours	
			Exercises(laboratory,theo Seminar project, teamwor	, ,	15 hours	
16.	Other forms of activities	16.1.	Project tasks		15 hours	
			Individual tasks		15 hours	
			Home learning	Home learning		
17.	3					
	17.1. Tests		70 poir		its	
	17.2. Seminar (paper and/or oral)	/projec	ct - presentation: written 10 poin		its	
	17.3. Activity and par	ticipati	on	20 poin	its	
18.	Grading system		up to 50 points	5 (five)	(F)	
			51 to 60 points	6 (six)	(E)	
			61 to 70 points	7 (seve	n) (D)	
			71 to 80 points	8 (eigh		
			81 to 90 points	9 (nine)		
			91 to 100 points	10 (ten)		
19.	Signature and final exa prerequisites		60% achievement on all p	re-exam	activities	
20.	Language of instruction	n	Macedonian			
21.	Course evaluation		Self evaluation			

22	Literature								
-		Requ	ired literature						
		No.	Author	Title	Publisher	Year			
	22.1.	1.	Gorgi Shumanov, Blaze Nikolovski	Epidemiology and Public Health	"Progress", Tetovo	2009			
		2.	Theodor H.Tulchinski Elena A.Varavikova	New Public Health	Student word "Skopje	2003			
		3.	Lence Mircevska, Doncho Donev, Ilija Gligorov	Health education	Bitola	2006			
		Supp	lementary literature						
	22.2.	No.	Author	Title	Publisher	Year			
		1.	Blaze Nikolovski	Epidemiology	"Progress", Tetovo	2003			

App No.	endix	Course Programme -	first o	cycle studies				
1.	Course t	itle	<u> </u>	omputer Science	:e			
2.	Code	itic		FI110112	, C			
3.		ogramme		edical nurses /	Mec	lical Tec	hnicians	
4.		er of the study		niversity "Goce			IIIIICIAIIS	
٦.		me (unit orinstitute,		aculty of Compi			s	
		department)	' '	acany or comp		00.000		
5.		st, second, or third	Fi	rst cycle				
6.		c year / semester		econd emester	7.	Numbe credits	_	2
8.	Lecturer	/Instructor(s)	A:	ss. Lecturer/Ins	truc	tor Zora	n Zdravev	, PhD
9.	Required	I prerequisite courses	5					
10		bjectives (competend				<u> </u>		
-		the basic concepts o			usin	g compi	uters for	
		ication, research and		work				
11		of the course Progra						
•		tion to informtics: alg					1	
		er hardware: introduct	tion, ty	pes, architectu	re o	f compu	ter systen	ıs,
	Murau la		ala Ca		1:	امادا اماد	4!6!4!	
		er hardware: Peripher						
		er software: applicativ er software: system so						
		er software: web servi						
	systems		ces, o	illille document	. 310	rage and	a c ultilig	
		er networks: LAN, MA	N WA	N topologies a	nnli	ications	that run o	n
	•	components, connec	•	it, topologics, a	.pp	oations	tilat rail o	••
		er networks: Internet,		et. extranet. Inte	erne	t service	es:	
		er security: concept, s						zed
	-	cryptography;		, . ,		,		
		ion systems: introduc	tion, t	ypes, ERP, CRN	/I, H	R, SCM;		
	Content	Management Systems	S CMS	DMS, DAMS, V	VCN	I, ECP, E	RS;	
		es: fundamentals, type						
12		nethodology:Lectures	s, Labo	ratory exercise	s, e	-learning	g, individu	al and
-		jects,consultations.						
13	Total ava	illable time		4 ECTS x 30 h	= 1	20 hours	3	
14	Distribut	ion of available time		30+15+15+10	+50	= 120 hc	ours	
15	Forms of	instruction	15.1	lectures / thec	reti	cal -	30 hours	
				contact teachi	ing,	e-		
				teaching	_			
			15.2	theoretical and	d pr	actical	15 hours	
	•		1	exercises,				i
				*				i
				e-exams, inde	•	dent		i
				e-exams, inde seminar proje	•	dent		
16	Other for	rms of studying	16.1	e-exams, inde seminar proje Project tasks	ct	dent	15 hours	
16		, ,	16.1 16.2 16.3	e-exams, inde seminar proje	ct	dent	15 hours 10 hours 50 hours	

17	Cour	se methodology			
	17.1	Tests / oral exams		70 points	
	17.2	Seminar (paper/project - pro and/or oral)	esentation: written	10 points	
	17.3	Activity and participation		20 points	
18	Grad	ing system	Up to 50 points	5 (five) (F)	
			51 to 60 points	6 (six) (E)	
			61 to 70 points	7 (seven) (D)	
			71 to 80 points	8 (eight) (C)	
			81 to 90 points	9 (nine) (B)	
			91 to 100 points	10 (ten) (A)	
19	_	ature and final exam equisites	60% achievement on all pre-exam activities		
20	Lang	uage of instruction	Macedonian		
21	Cour	se evaluation	Self-evaluation		

22.	Literature										
		Requ	uired literature								
		No.	Author	Title	Publisher	Year					
		1.	Zoran Zdravev etc	Informatics - script	UGD	2012					
	22.1.	2.	Zoran Zdravev etc Practicum in Informatics UGD 2012	Practicum in Informatics	UGD	2012					
		3.									
		Supplementary literature									
		No.	Author	Title	Publisher	Year					
	22.2.	1.	Glenn Brookshear	"Computer Science – an overview"	Pearson Internatio nal edition	2009					
		2.	Carl Reynolds and Paul Tymann	"Principles of Computer Science"	McGraw Hill	2008					
		3.	James O'Brien	"Introduction to Information Systems "	McGraw Hill	2008					

Ann	ex No.3	Course Progr	amme	- first cycle studi	ies			
1	Course t	itla	Doth	anhyciology				
1. 2.	Code	itte	Patr	ophysiology				
3.		rogramma	Mod	ical nurses / Medic	aal Taa	hnioione		
4.		ogramme er of the study				IIIICians		
4.	_	me(unit or		ulty of Medical Sci versity Goce Delce				
	_	, Faculty,	Oniv	ersity doce beice	v			
	departm							
5.		studies (first,	First	t cycle				
		third cycle)		,				
6.	Academ		Thir	d semester	7.	Number o	f	7
	semeste	•				credits		
8.	Lecturer	/Instructor(s)	Ass	ociate Prof. Dr. Mil	ka Klir	ncheva,PhD)	•
9.	Required	d prerequisite						
	courses							
10.		objectives (con						
	To introduce the general malfunctions and pathophysiological processes of							
	the body							
11.	Course		_					
		cal study units		nd function of mad	romol	ooulos		
				nite structures		ecules		
				lism and metaboli	sm of a	esential nu	ıtriants	
				pecific metabolic				
				y and electrolytes.		arido		
		pased balance		•				
	7. Biolog	gically active e	ndogei	nous compounds i	in the p	oathophysi	ologic	
	process	es	_	-	_			
				physiological pain				
			sorder	. Imunopathophys	iology			
	10. Inflar		•					
				iousness disorder		f 1 !		4 -
		lopment and g I teaching unit		disorders. Maligna	ant trar	istormation	n and gi	rowtn.
				of inheritance of dis	603606	and syndr	omas	
	2. Cell de		Jasis U	a amendance of un	JEASES	and Syndi	OHICS	
		rate hipoenerg	ozi - si	arvation				
		ders of protein						
				ply, phosphate an	d mage	enzium		
	7. Gastro	ointestinal hori	mones	and neuropeptide				
		ions of tissues		olantation				
		physiology of <i>i</i>						
12.	Course rexercise		nteract	ive teaching in lec	tures a	and tutorial	s, pract	tical
13.								
14.		tion of availabl	<u>е</u>	3+3+1				
	time							
15.	Forms o	f instruction	15.1.	lectures - theoret	tical tea	aching	45 hou	ırs
			15.2.	Everciese/labora	tory th	eoretical\	45 hou	ıre
			13.4.	Exercises(labora	tory,th	eorencar),	43 1100	JI 3

				Seminar project, teamwo	rk			
16.		Other forms of activities 1		Project tasks		15 hours		
	activi			Individual tasks		15 hours		
	1		16.3.	Home learning		90 hours		
17.	Course methodology							
	17.1.	7.1. Tests				70 points		
-	17.2.	Seminar (paper/ and/or oral)	orojec	t - presentation: written	10 points			
	17.3.	Activity and parti	cipati	on	20 poir	nts		
18.	Gradi	ng system	up	to 50 points	5 (five) (F)			
		_	51	to 60 points	6 (six) (E)			
			61	to 70 points	7 (seven) (D)			
			71	to 80 points	8 (eigh	t) (C)		
				to 90 points	9 (nine) (B)		
			91	to 100 points	10 (ten) (A)		
19.	_	ture and final prerequisites	609	60% achievement on all pre-exam activities				
20.	Langu	uage of instruction	Ma	cedonian				
21.	Course evaluation Self evaluation							

22	Litera	ture				
		Requ	uired literature			
		No.	Author	Title	Publisher	Year
		1.	Gamulin S., M Marushich., Z. Kovacs.and co.	Pathophysiology	Sixth Edition - Medicnska naklada, Zagreb	2005
	22.1.	2.	Stephen DZH.Mek Fi and William Genong	Pathophysiology of Disease Introduction to Clinical Medicine	Project of the Government of Macedonia translation of technical and scientific books	4th Edition, Septemb er 2002, translate d 2011
		3.	Vaskova O., Miceva S. Ristevska, Pop Gjorcheva D., D Miladinovska., S. Loparska., Ivanovska J.E.	Practicum in general and special pathological physiology	Skopje	
		Supp	plementary literature)		
		No.	Author	Title	Publisher	Year
	22.2.	1.	Isak Tadzher and co	General pathologic physiology,	Book, Belgrade	

Ann	ex No.3 Course Pro	gramme	- first cycle studio	es				
4	Course title	Deth	- alamı					
1. 2.	Code	Pati	nology					
3.	Study Programme	Mod	Medical nurses / Medical Technicians					
4.	Organizer of the stud		ulty of Medical Scie		IIIICIAIIS			
7.	Programme(unit or institute, Faculty, department)		versity Goce Delce					
5.	Level of studies (first second, third cycle)	, Firs	t cycle					
6.	Academic year / semester	Thir	d semester	7.	Number o	f	7	
8.	Lecturer/Instructor(s) Prof	f. Dr. Gordana Petri	ushevs			l	
9.	Required prerequisite courses	/						
10.	Course objectives (competences) Introduction to etiology, pathogenesis and morphological changes in cells and tissues of the body under the influence of pathological agents and their diagnostics							
11.	Course content: Cell Pathology; Inflammation; Regeneration and repair; Disruption of circulation; Pathology of the immune system; Neoplasms;							
12.	Systemic Pathology; Course methodology works	:Theore	tical instruction, pr	actical	exercises	, semin	ar	
13.	Total available time		210					
14.	Distribution of availa time	ble	3+3+1					
15.	Forms of instruction	15.1.	lectures - theoret	ical tea	ching	45 hou	ırs	
		15.2.	Exercises(laborat Seminar project,			45 hou	ırs	
16.	Other forms of activities	16.1.	Project tasks			15 hou	ırs	
		16.2.	Individual tasks			15 hou		
		16.3.	.3. Home learning			90 hou	ırs	
17.	U)							
	17.1. Tests			70 poin				
	and/or oral)		ct - presentation: w	ritten	10 poin	nts		
	17.3. Activity and page	ion 20 poi			nts			
18.	Grading system		to 50 points		5 (five)			
	51 to 60 points 6 (six) (E)							

		61 to 70 points	7 (seven) (D)			
		71 to 80 points	8 (eight) (C)			
		81 to 90 points	9 (nine) (B)			
		91 to 100 points	10 (ten) (A)			
19.	Signature and final exam prerequisites	60% achievement on all pre-ex	am activities			
20.	Language of instruction	Macedonian				
21.	Course evaluation	Self-evaluation, tests, oral and written examination				

22.	Literature								
		Requ	uired literature						
		No.	Author	Title	Publisher	Year			
	22.1.	1.	Kumar, Abbas, Fausto, Mitchell	Principles of pathology according to Robbins	Tabernakul	2012			
		2.	Edward K.Klat	Robbins and Kotran Pathologic Atlas	Academic Press	2012			
		3.	Authorized lectures						
		Supp	olementary literature	e	•	•			
	22.2.	No.	Author	Title	Publisher	Year			
		1.							

Ann	Annex No.3 Course Programme - first cycle studies								
1.	Course t	itle	Pha	rmacology					
2.	Code								
3.	Study Pr	ogramme	Med	Medical nurses / Medical Technicians					
4.		er of the study	Faci	ulty of Medical Sci	ences				
	Program	me(unit or	Univ	ersity Goce Delce	V				
		, Faculty,							
	departm								
5.		studies (first,	Firs	t cycle					
		third cycle)			1			1	
6.	Academi	•	Thir	d semester	7.	Number o	f	4	
	semeste		4_		L	credits			
8.		/Instructor(s)		. Lecturer/Instruct	orTraja	n Balkanov	, PhD		
9.	•	d prerequisite	Non	е					
40	courses	ala la attena e de		1					
10.	 Course objectives (competences) To introduce basic pharmacokinetic (absorption, distribution, metabolism and 								
		<u> </u>		armacodinamic pro		•			
		• ,		actors that determ					
				osing, interactions				aosing	
	medicati		. ago a	oomg, moraonom	o ana o	0.10010	U .		
11.	Course								
	1. Basic	pharmacology	, Phari	macodinamic (dru	gs effe	ct on the h	uman		
	organisn		•	•					
	2. The m	echanism of d	rugs a	ction; Character o	f actior	n, specificit	y and		
	selectivi								
	3. Types effects	of therapy, et	iology,	symptomatic; Qua	antitati	ve aspects	of the	drugs	
		ation among c	lruae e	tructure and phari	macolo	aical resna	nea: el	ronath	
		ctiveness of d	_	and phan	ilacolo	gicai respo	ліэ с , эі	uengui	
			_	d tolerance; mutua	al effect	t between d	druas: S	Side	
		f drugs. Drug		•	000		a. a.g.o, k	J. 40	
				peripheral nervou	s syste	em,			
				at act through the			ystem,		
			_	ar disease, Haemo			-		
	that are	used in treatm	ents of	f anemia,					
		nent of respira	•						
			_	e tract diseases,					
				ones in daily thera	apy pra	ctice			
4.0		infective drug	8						
12.		nethodology:			mue -4!	ما سمساد !	. 	do na t	
				roups, homework,		iai work, in	uepen	rit	
13.		ailable time	ion, ue	ebate, individual ta 120	272				
14.		ion of availab	A	2+1+1					
1-4.	time	ion of available	C	<u> </u>					
15.	Forms o	f instruction	15.1.	lectures - theore	tical tea	aching	30 hou	urs	
			4= -	P 1 '' 1			45:		
			15.2.	Exercises(labora			15 ho	urs	
				Seminar project,	teamw	ork			

16.	Other		16.1.	Project tasks		15 hours		
	activi		16.2.	. Individual tasks		15 hours		
	1		16.3.	Home learning		45 hours		
17. Course methodology								
	17.1. Tests 17.2. Seminar (paper/p and/or oral)				70 poir	nts		
				t - presentation: written	oints			
	17.3.	Activity and partic	cipati	ipation		nts		
18.	Gradi	ng system	up	to 50 points	5 (five)	(F)		
			51	to 60 points	6 (six)	(E)		
			61	to 70 points	7 (seve	en) (D)		
			71 1	to 80 points	8 (eigh	t) (C)		
			81 1	to 90 points	9 (nine) (B)		
			91 1	to 100 points	10 (ten) (A)		
19.	_	ture and final prerequisites	60%	60% achievement on all pre-exam activities				
20.	Language of instruction			Macedonian				
21.	Cours	se evaluation	Sel	Self evaluation				

22	Literature										
		Required literature									
		No.	Author	Title	Publisher	Year					
	22.1.	1.	Balkanov T., Pesic S.	Pharmacology for dentists - general part	Authorized lectures, script	2013					
		2.	Balkanov T ., Pesic S.	Pharmacology for dentists - a special part	Authorized lectures, script	2013					
		3.			-						
		Supp	lementary literature								
	22.2.	No.	Author	Title	Publisher	Year					
		1.									

Ann	ex No.			first such studi				
		Course Prog	ramme	- first cycle studi	es			
1.	Cours	se title	Con	temporary diagnos	stic met	hods in m	edicine	•
2.	Code							
3.	Study	Programme	Med	ical nurses / Medic	cal Tech	nnicians		
4.	Orgar	nizer of the study	Faci	ulty of Medical Scie	ences			
	Progr	amme(unit or	Univ	ersity Goce Delce	V			
	institu	ute, Faculty,						
	depar	tment)						
5.	Level	of studies (first,	Firs	t cycle				
	secor	nd, third cycle)						
6.	Acade	emic year /	Thir	d semester	7.	Number o	f	4
	seme	ster				credits		
8.	Lectu	rer/Instructor(s)	Prof	. Dr. Tane Markovs	ski			
9.	Requi	red prerequisite						
	cours	es						
10.	Cours	se objectives (co	npeten	ices)				
	Introd disea		n diagn	ostic methods and	d proce	dures in di	iagnosi	is of
11.	Cours	se content:						
	Class	ic and digital dia	gnostic	methods.				
	Getting analog and digital recording.							
	Basic digital methods of investigation.							
	Basic principle of ultrasonic diagnosis							
Basic principles of CT diagnosis								
	_	lagnetic resonance imaging and its application in diagnosis of diseases						
				respiratory tract				
				cardiovascular sys				
				gastrointestinal tra				
				ethods of the urog		ract.		
				ethods in gynecol	ogy.			
	_	nostic methods						
12.			ectures	s, exercises, semin	ar proj	ect		
13.		available time		120				
14.		bution of availab	le	2+1+1				
15.	time Forms	s of instruction	15.1.	lectures - theoret	ical tea	ching	30 ho	urs
			15.2.	Exercises(laborate			15 hoւ	urs
				Seminar project,	teamwo	ork		
16.		forms of	16.1.	Project tasks			15 hou	urs
	activi	ties	400	المحادة			4E l	
			16.2.	Individual tasks			15 ho	urs
			16.3.	Home learning			45 hou	urs
17.		se methodology	I	ı			<u> </u>	
	17.1.	Tests		70 points				
	17.2.	Seminar (paper and/or oral)	/projec	t - presentation: w	-			
İ	17.3.	Activity and par	ticinati	on		20 poin	ıts	
		i ioiiiiiy aiia pai		· - #		PO!!!		

18.	Grading system	up to 50 points	5 (five) (F)
		51 to 60 points	6 (six) (E)
		61 to 70 points	7 (seven) (D)
		71 to 80 points	8 (eight) (C)
		81 to 90 points	9 (nine) (B)
		91 to 100 points	10 (ten) (A)
19.	Signature and final exam prerequisites	60% achievement on all pre-ex	cam activities
20.	Language of instruction	Macedonian	
21.	Course evaluation	Self-evaluation	

22.	Literature							
	22.1.	Required literature						
		No.	Author	Title	Publisher	Year		
		1.	Authorized lectures by the teacher					
		Supp	lementary literature					
	22.2.	No.	Author	Title	Publisher	Year		
		1.	1					

Ann	ex No.	=	ramme	- first cycle studi	ies			
4								
1.	Cours	e title	Med	lical ethics				
2.	Code	_	3.5					
3.		Programme		lical nurses / Medic		nnicians		
4.		izer of the study		ulty of Medical Sci				
		amme(unit or	Univ	ersity Goce Delce	·V			
		ite, Faculty, tment)						
5.		of studies (first,	Firs	t cycle				
		d, third cycle)						
6.		emic year /	Thir	d semester	7.	Number o	f	4
	semes	ster				credits		
8.	Lectu	rer/Instructor(s)	Ass	. Lecturer/Instruct	orDark	o Boshnak	ovski, l	PhD
9.	Requi	red prerequisite						
	cours							
10.		e objectives (cor						
				and sociological k				
		•		/ technicians, obs	ervatio	n, treatme	nt and	care of
4.4	patients as complex bio unit.							
11.		Course content: Conceptual and historical overview of medicine. Clinical Medicine and ethical						
			work. History of Medical Ethics: Hippocratic Oath and its ions, Geneva revision of the Hippocratic oath and ethical					
				varevision of the r ctice: specificities				
				t, euthanasia, mora		•		• • • • • • • • • • • • • • • • • • • •
				rch ethic, medical				Jility Oi
	proble	-	icscai	on cumo, mealoar	iaw. ba	olo dopeot	5 and	
12.			_ecture	es, exercises, meth	ods of	aroup disc	cussion	ns.
				inar papers, prese				
13.	Total	available time		120				
14.		oution of available		2+1+1				
	time							
15.	Forms	of instruction	15.1.	lectures - theore	tical tea	aching	30 ho	urs
						3		
			15.2.	Exercises(labora		eoretical),	15 ho	urs
				Seminar, teamwo	ork			
16.		forms of	16.1.	Project tasks			15 ho	urs
	activit	ies	16.2.	Individual tasks			15 ho	urs
			16.3.	Home learning			45 ho	urs
17.	Cours	e methodology	<u> </u>	1			<u>I</u>	
	17.1.	Tests				70 poir	nts	
	17.2. Seminar (paper/project - presentation: w				ritten	10 poin	nts	
		and/or oral)	-	-		•		
	17.3.	Activity and par	ticipati	on		20 poir	nts	
18.	Gradii	ng system	up	to 50 points		5 (five)	(F)	
				to 60 points		6 (six)		
	1			<u>i</u>		- (2)	. ,	

		61 to 70 points	7 (seven) (D)
		71 to 80 points	8 (eight) (C)
		81 to 90 points	9 (nine) (B)
		91 to 100 points	10 (ten) (A)
19.	Signature and final exam prerequisites	60% achievement on all pre-ex	cam activities
20.	Language of instruction	Macedonian	
21.	Course evaluation	Written and oral presentation	of learning content

2	Litera	1						
		Requ	uired literature					
		No.	Author	Title	Publisher	Year		
	22.1.	1.	Panova G.	Medical ethics deontology	UGD-Stip	2010		
		2.	Seturman K.R.	Communication skills in clinical practice	Tabernakul			
		3.	Pop-Jordanova N.	Medical Ethics	Medical Faculty, Skopje	2006		
		Supplementary literature						
		No.	Author	Title	Publisher	Year		
	22.2.	1.	Marcia Lewis Carroll Tamparo	Medical Law, Ethics and Bioethics	Academic Press- Skopje	2010		
		2.	Marich J.	Medical Ethics	Faculty of Medicine, Belgrade,	2005		
		3.	Otashevich C, Pejakovich S.	Medical Ethics and deontology	Faculty of Medicine, Nis	2005		

Ann	ex No.3 Course Progr	amme	- first cycle studi	es			
1.	Course title	Hool	Ith care organization	<u> </u>			
2.	Code	Heal	itii cale organizatio	JII			
3.	Study Programme	Mod	Medical nurses / Medical Technicians				
4.	Organizer of the study		Faculty of Medical Sciences				
4.	Programme(unit or institute, Faculty, department)		iversity Goce Delcev				
5.	Level of studies (first, second, third cycle)	First	t cycle				
6.	Academic year / semester	Thir	d semester	7.	Number o credits	f	4
8.	Lecturer/Instructor	Prof	. Dr. Gorgi Shuma	nov			•
9.	Required prerequisite courses						
10.	Course objectives (con Introduction to the bas adoption, development	ic prin	ciples of health pla			olans,	
11.	Course content: 1.Planning and develop 2. Basic principles of p 3. Types of care plans 4. Defining priorities, d 5. Evaluation of achiev 6. Evaluation of achiev 7. Organization of healt 8. Levels in health care 9. Levels in health care 10. Health and social can 11. Health and social can 12. Human resources in	evelopement ement th care esyste are of o	g in the health seconement and adoption of health care plar of health care plar and health services—12 elderly, disabled a workers, agricultures————————————————————————————————————	n of pla n n e e	sically cha	llenged	l people
12.	Course methodology:li and engaging to stude Individual consultation	nts. Mu	ıltimedia teaching.	E-lear	ning.	, ,	
13.	Total available time	2 202001	120		9	,	
14.	Distribution of availabl time	е	2+1+1				
15.	Forms of instruction	15.1.	lectures - theoret	ical tea	ching	30 hou	urs
		15.2.	Exercises(labora Seminar project,		, .	15 hou	urs
16.	Other forms of activities	16.1.	Project tasks			15 hou	urs
	431111100	16.2.	.2. Individual tasks 15 hours				
4-		16.3.	Home learning			45 hou	urs
17.	Course methodology						
	17.1. Tests				70 poin		
	17.2. Seminar (paper	/projec	t - presentation: w	ritten	10 poin	its	

		and/or oral)		
	17.3.	Activity and partic	ipation	20 points
18.	8. Grading system		up to 50 points	5 (five) (F)
			51 to 60 points	6 (six) (E)
			61 to 70 points	7 (seven) (D)
			71 to 80 points	8 (eight) (C)
			81 to 90 points	9 (nine) (B)
			91 to 100 points	10 (ten) (A)
19.		ture and final prerequisites	60% achievement on all	I pre-exam activities
20.	Langi	uage of instruction	Macedonian	
21.	Cours	se evaluation	Self evaluation	

22	Litera	Literature								
•		Required literature								
		No.	Author	Title	Publisher	Year				
	22.1.	1.	Shumanov, George et al. 2003	"Authoritative teaching"	UGD,Shtip	2012				
		2.	Tulchinski, TH, Varavikova, E.A	New Public Health	NIP "Student word" Skopje,	2003				
		3.								
		Supplementary literature								
	22.2.	No.	Author	Title	Publisher	Year				
		1.								

Ann	ex No.3	Course Progr	amme	- first cycle studie	es			
1.	Course t	itla	Into	rnal medicine with (noro			
2.	Code	itte	inter	mai medicine with t	care			
3.		ogramme	Med	ical nurses / Medic	al Techr	nicians		
4.		er of the study		ulty of Medical Scie				
		me(unit or		ersity Goce Delcev				
		, Faculty,		•				
	departm	ent)						
5.		studies (first,	First	t cycle				
		third cycle)					_	
6.	Academi		Fou	rth semester		lumber o	t	8
8.	semeste		٨٥٥	Lecturer/Instructo	_	redits	ric DhF	`
9.		/Instructor(s)	A55.	Lecturer/mstructo	i Di .iviai i	ja vaivur	(15, FIIL	,
Э.	courses	a prerequisite						
10.		objectives (cor	npeten	ces)				
	To acqui	re basic know	ledge a	about basic interna	l disease	es		
				application of theor)	
11.	Course	content:				_		
			s of ca	rdiovascular syster	m and he	ealth care	Э	
	characte				_			
				e respiratory syster				
	specifica	_	mmato	ry and degenerativ	e diseas	ses and n	eaith ca	are
	•		s of uri	inary system and h	ealth ca	re snecifi	ication	
				system and health of				
				aracteristics of hea			-	
	Endocrir	nological disor	ders a	nd health care spec	cification	า		
12.	Course r	nethodology:F	Researc	ch paper, group wo	rk, hom	ework, pi	ractice,	
		on, debate, inc			·	•		
13.		ailable time		240				
14.		ion of availabl	е	3+4+1				
	time		4= -				4= -	
15.	Forms o	f instruction	15.1.	lectures - theoreti			45 hoւ	
			15.2.	Exercises(laborate			60 hou	ırs
				Seminar project, t	eamwor	K		
16.	Other for	rme of	16.1.	Project tacks			15 hoւ	ıre
10.	activities		10.1.	Project tasks			าอ กอเ	11.2
	aonvilles	•	16.2.	Individual tasks			15 hoւ	ırs
			16.3.	Home learning			105 ha	nire
	16.3. Home learning 105 hours							
17.		nethodology				T = -		
	17.1. Tests 70 points							
	17.2. Seminar (paper/project - presentation: written 10 points							
	and/or oral)							
		ctivity and part				20 poin		
18.	Grading	system	up	to 50 points		5 (five)	(F)	

		51 to 60 points	6 (six) (E)
		61 to 70 points	7 (seven) (D)
		71 to 80 points	8 (eight) (C)
		81 to 90 points	9 (nine) (B)
		91 to 100 points	10 (ten) (A)
19.	Signature and final exam prerequisites	60% achievement on all pre-e	exam activities
20.	Language of instruction	Macedonian	
21.	Course evaluation	Self evaluation	

22	Literature								
		Required literature							
		No.	Author	Title	Publisher	Year			
	22.1.	1.	Serafimovski V. and co.	INTERNAL MEDICINE (selected chapters)	Macedonian treasury, Kumanovo	2003			
		2.	Forbes Ch., William J.	Clinical Medicine (Color Atlas and texts), Third Edition	Magor, Skopje	2012			
		3.							
		Supp	lementary literature	1	-1	1			
		No.	Author	Title	Publisher	Year			
	22.2.	1.		Authorized lectures by teachers					

Ann	nex No.3 Course P	rogramm	e - first cycle stud	ies				
4	Course title	Inf	ativa diaggas with	h aara				
1.	Course title	Inte	ective diseases wit	n care				
2.	Code	84-	-1:1 / Ma-:	I T	L!			
3.	Study Programme		Medical nurses / Medical Technicians					
4.	Organizer of the st	-	Faculty of Medical Sciences					
	Programme(unit or	Un	iversity Goce Delce	¥V				
	institute, Faculty,							
5.	department)	ot Eir	ot ovolo					
5.	Level of studies (fine second, third cycle		st cycle					
6.			urth semester	7.	Number o	. .	4	
Ο.	Academic year / semester	FO	artin semester	/.	credits)	4	
0	Lecturer/Instructor	(c) Ac	s. Lecturer/Instruct	orDr Va		cki Dhl	<u> </u>	
8. 9.		` /	s. Lecturer/mstruct	OIDI.VE	elo iviarkov	SKI, PIII	U	
9.	Required prerequisite							
10.	Course objectives	/oomnoto	noocl					
10.	Course objectives To learn the basic			ny and	prophylay	ic of the	^	
	infective diseases	elelllellis	oi diagnosis, inera	ру апи	propriyiax	15 01 111	E	
11.								
• • • •	Theoretical instruc	tion:						
	Infection, an infective disease (basic features), temperature, types and							
	regulation	iro diocu	(154515 1541411 55),		, ., p	,		
	Principles of diagn	osis. trea	tment and preventi	on of th	ne infective	e diseas	ses	
	Fundamentals of in		<u>-</u>					
	Fundamentals of g							
	Epidemiological an							
	Rash Viral Disease							
	Mumps epidemic. I							
	Respiratory infection	ons						
	Characteristics of t							
	Characteristics of a	zoonoses						
	Infectious diseases	of CNS						
	HIV infection							
	Practical instruction							
	Appropriate protec	tion of th	e medical personne	el and r	emoval of	the infe	ectious	
	waste							
	Sampling of biolog							
	Diagnostic and the		•	ve dise	ases			
	Login and registrat		ective nerbaceous					
	Application of oral							
	Application of pare							
	Anti tetanus and ar	iti radies	propnylaxis					
	Lumbar puncture Treatment for viral	fovers or	d raches Museus	momh=	ano			
	Hygiene dietary reg							
12.				_				
13.	Total available time		120	เกอน นับ	LIUII			
14.	Distribution of available		2+1+1					
	time			-		1		
15.	Forms of instruction	n 15.1	lectures - theore	tical tea	aching	30 ho	urs	

			15.2.	Exercises(laboratory,theoseminar project, teamwood	•	15 hours
16.		Other forms of 1 activities		Project tasks		15 hours
	activi	ties	16.2.	Individual tasks		15 hours
	1		16.3.	Home learning		45 hours
17.	Cours	se methodology				
	17.1.	Tests		70 points		
	17.2.	Seminar (paper/ and/or oral)	projec	t - presentation: written	10 poin	ts
	17.3.		on	20 poin	its	
18.	Gradi	ng system	up	up to 50 points 5 (five		(F)
			51	to 60 points	6 (six) (E)	
			61	to 70 points	7 (seve	n) (D)
			71	to 80 points	8 (eight	t) (C)
			81	to 90 points	9 (nine)	(B)
			91	to 100 points	10 (ten)) (A)
19.	_	Signature and final exam prerequisites		60% achievement on all pre-exam activities		
20.	Language of instruction Macedonian		cedonian			
21.	Cours	se evaluation	Sel	Self evaluation		

22	Literature									
•		Required literature								
		No.	Author	Title	Publisher	Year				
	22.1.	1.		Authorized lectures	UGD, Shtip					
		2.		Infectious diseases (selected chapters)	Faculty of Medicine Skopje					
		3.								
		Supplementary literature								
	22.2.	No.	Author	Title	Publisher	Year				
		1.								

Ann	ex No.		amme	- first cycle studi	es				
_	0	- 4:11-	01.	(l. alma al a m					
1.		se title	Opn	thalmology with c	are				
2.	Code	D	NA	:!	al Taala	.!.!			
3.	_	Programme		Medical nurses / Medical Technicians					
4.	•	nizer of the study		Faculty of Medical Sciences					
		amme(unit or	Univ	ersity Goce Delce	V				
		ite, Faculty,							
5.		tment) of studies (first,	Eiro	st cycle					
J.		id, third cycle)	Firs	i ii st cycle					
6.		emic year /	,						
0.	seme	_	1 ou	tii SeilleStei		redits	f 4		
8.		rer/Instructor(s)	Prof	. Dr.Karolina Blaze			<u> </u>		
9.		red prerequisite	1.70	. Dintaronna Diaze		0 10110	•		
-	cours	•							
10.		se objectives (cor	npeten	ces)					
		•	•	res for detection of	of eye dis	seases ai	nd their		
	treatn	-			•				
11.	Course content:								
	Diagnosis and treatment of eye diseases								
	Inflammation of the anterior segment of the eye								
	Degenerative processes and tumors of the anterior segment								
	Glaucoma								
	Cataracts								
	Vascular diseases of the retina								
	Diabetic retinopathy								
	Eye tu	ımor on of retina							
		on or retina ses of the optic n	orvo						
		ses of the optic f njuries	iei ve						
12.		•	ecture	s, exercises, semi	nar nane	rs with o	ral		
12.		ntation	Lootaro	o, exercises, seim	nai pape	, s with o	ıuı		
13.	_	available time		120					
14.		bution of availabl	е	2+1+1					
	time								
15.	Forms	s of instruction	15.1.	lectures - theoret	ical teac	hing	30 hours		
			15.2.	Exercises(labora	tory,theo	oretical),	15 hours		
				Seminar project,	teamwo	rk			
16.		forms of	16.1.	Project tasks			5 hours		
	activi	ties	16.2.	Individual tasks			5 hours		
			10.2.	iliulviuuai lasks			Jilouis		
	1			Home learning			5 hours		
47	C	a math a dal a							
17.	17.1.	se methodology Tests				70 noi-	<u> </u>		
					•44	70 poin			
	17.2.		/projec	t - presentation: w	ritten	10 poin	its		
		and/or oral)							

	17.3.	Activity and partic	ipation	20 points		
18.	Gradi	ng system	up to 50 points	5 (five) (F)		
			51 to 60 points	6 (six) (E)		
			61 to 70 points	7 (seven) (D)		
			71 to 80 points	8 (eight) (C)		
			81 to 90 points	9 (nine) (B)		
			91 to 100 points	10 (ten) (A)		
19.	_	ture and final prerequisites	60% achievement on all pre-exam activities			
20.	Langi	uage of instruction	Macedonian			
21.	Course evaluation		Self-evaluation			

22.	Literature									
		Requ	Required literature							
		No.	Author	Title	Publisher	Year				
	22.1.	1.	Kanski J.K.	Clinical ophthalmology		2012				
		2.	Brathfort S.	Fundamentals of Ophthalmology		2010				
		3.	Spalton S.	Ophthalmic Atlas		2010				
		Supp	lementary literatu	ıre	1	<u>'</u>				
	22.2.	No.	Author	Title	Publisher	Year				
	22.2.	1.	Janev K,	General Ophthalmology		2012				

Ann	ex No.3	Course Progra	mme - first cycle	studies				
1.	Course	itle	Neurology and ps	vchiatry v	vith care			
2.	Code							
3.		rogramme	Medical nurses / Medical Technicians					
4.		er of the study	Faculty of Medical Sciences					
	_	nme(unit or	University Goce I					
	_	, Faculty,	•					
	departm							
5.	Level of	studies (first,	First cycle					
	second,	third cycle)	• /					
6.	Academ	ic year /	Fourth semester	7.	Number of	4		
	semeste	r			credits			
8.	Lecturer/Instructor(s) Prof Dr.Liljana Ilievska							
9.	Require	d prerequisite	Verified third sem	ester				
	courses							
10.	Course objectives (competences) To obtain basic knowledge of diagnosis, therapy and prophylaxis of							
				nerapy and	d prophylaxis of			
		gical and psychi	atric patients.					
11.	Course content:							
	Theoretical instruction: Classification of mental disorders, Social Psychiatry							
	Classification of mental disorders, Social Psychiatry Addiction diseases							
	Neurodegenerative diseases Affective diseases							
	Affective disorders							
	Psychotic disorders							
	Neurotic and psychosomatic disorders Personality Disorders							
		nity mental heal	h stiama					
		nerve deseases	iii, siigiiia					
			e, extrapyramidal d	ieordare				
			e, extrapyramidal d					
		vascular Diseas		isoracis				
		I instruction:						
		tric anamnesis a	nd interview					
	_	sis-schizophreni						
	_		diction-pharmacot	herapy, ps	sychotherapy			
		a-Alzheimer's d	-	13/1	, ,,			
	Epilepsy	and status, epi	lepticus therapy					
	Neurolo	gical history and	d status-motion, re	flexes, sei	nsibility			
	Cranial i	•		*	-			
	Cerebro	vascular diseas	es-stroke					
		on's disease						
		puncture						
	Diagnostic methods. CT, MRI-preparation of patients							
12.								
13.	Total available time 120							
14.	Distribut time	tion of available	2+1+1					
15.		f instruction	15.1. lectures - th	oorotical t	acabina 20	hours		

		1	5.2.	Exercises(laboratory,theo Seminar project, teamwork)		15 hours	
16.		Other forms of 1		Project tasks		15 hours	
			6.2.	Individual tasks		15 hours	
			6.3.	Home learning		45 hours	
17.	Cours	se methodology:		1		1	
	17.1. Tests				70 points		
	17.2.	Seminar (paper/pi and/or oral)	10 points				
	17.3.	Activity and partic	on	20 poin	nts		
18.	Gradi	ng system	up	up to 50 points		5 (five) (F)	
				to 60 points	6 (six) (E)		
			61	to 70 points	7 (seven) (D)		
			71	to 80 points	8 (eigh	t) (C)	
			81	to 90 points	9 (nine		
			91) (A)	
19.	Signature and final exam prerequisites		60% achievement on all pre-exam activities			vities	
20.		age of instruction	Ma	cedonian			
21.	Cours	se evaluation	Sel	f evaluation			

22	Literature									
•		Required literature								
		No.	Author	Title	Publisher	Year				
	22.1.	1.	Rihter K, Ortakov V, Belevska D.	Community mental health		2006				
		2.	Chadlovski	Psychiatry	Prosvetno delo	2004				
		3.	Group of authors	Neurology	Prosvetno delo	2008				
		Supp	olementary literature			•				
	22.2.	No.	Author	Title	Publisher	Year				
	<i>LL.L.</i>	1.	Ilievska L. Petrova V.	Evoked potentials in clinical practice	Prosvetno delo	2007				

Anr	nex No.3						
		Course Progra	ımme - first cycle st	udies			
1.	Course t	itle	Family medicine				
2.	Code						
3.	Study Pr	ogramme	Medical nurses / Me	edical Te	chnicians		
4.	Program	er of the study me(unit or , Faculty, ent)	Faculty of Medical S University Goce De		S		
5.	Level of studies (first, second, third cycle)		First cycle				
6.	Academ semeste	•	Fourth semester	7.	Number of credits	4	
8.	Lecturer	/Instructor(s)	Ass. Lecturer/InstructorBiljana Ilievska Popovska, PhD				
9.	Required courses	d prerequisite					
10.	554.555						

11. Course content:

Theoretical instruction:

- 1. Introduction, medical documentation
- 2. History and physical examination in all age groups.
- 3. Diseases of respiratory system symptoms, diagnosis, differential diagnosis, therapy.
- 4. Diseases of cardiovascular system-symptomatology, diagnosis, differential diagnosis, therapy.
- 5. Diseases of gastrointestinal system-symptomatology, diagnosis, differential diagnosis, therapy.
- 6. Musculoskeletal diseases and injuries.
- 7. Urinary symptoms
- 8. Headache
- 9. The most common conditions in the pediatric population.
- 10. Reproductive health family planning and contraception.
- 11. Reproductive health prenatal and postpartum care.
- 12. Preventive measures, counseling, genetic counseling.

Practical instruction:

- 13. Physical examination.
- 14. Upper respiratory disease symptoms and treatment.
- 15. Assessment of patients with COPD.
- 16. Assessment and treatment of patients with arterial hypertension.
- 17. Assessment and treatment of patients with cardiac arrhythmias.
- 18. Assessment and treatment of patients with coronary artery disease.
- 19. Assessment and treatment of patients with diarrhea and vomiting. Analysis of abdominal symptoms.
- 20. Treatment of muscle tension and distortions. Osteoporosis risk assessment and counseling.
- 21. Assessment of urinary symptoms urinary incontinence versus anuria. Dysuria.

						1		
				es during pregnancy.				
		eadache - differer		•				
		nenorrhea. Metro						
12.			heoret	ical and practical instruction	on			
		available time		120				
14.		bution of availab	le	2+1+1				
4.5	time		1454					
15.	Form	s of instruction	15.1.	lectures - theoretical teac	hing	30 hours		
			15.2.	Exercises(laboratory,theoretical), Seminar project, teamwork		15 hours		
16.	Other	forms of	16.1.	Project tasks		15 hours		
	activi	1		Individual tasks		15 hours		
				Home learning		45 hours		
17.	Cours	se methodology	1					
	17.1.	Tests		70 poir		its		
	17.2.	Seminar (paper and/or oral)	/projec	t - presentation: written	10 points			
	17.3.	Activity and par	ticipati	on	20 poin	its		
18.		ng system		to 50 points	5 (five)	(F)		
				to 60 points	6 (six)	. ,		
				to 70 points	7 (seve	. ,		
				to 80 points	8 (eigh			
				to 90 points	9 (nine)	, , ,		
				to 100 points	10 (ten			
19.	Signa	ture and final		% achievement on all pre-ex				
		prerequisites		as a same remainder an an pro anam dentino				
20.		age of instruction	n Ma	Macedonian				
21.	Cours	se evaluation	Sel	f evaluation				

22.	Literature									
		Required literature								
	22.1.	No.	Author	Title	Publisher	Year				
		1.	Mengel M. et al.	Family Medicine: Ambulatory Care and Prevention	Fifth Edition (LANGE Clinical Medicine)					
		Supplementary literature								
	22.2.	No.	Author	Title	Publisher	Year				
		1.								

Ann	ex No.3 Course Prog	ramme	- first cycle studi	es			
1.	Course title	Surge	ry with Care				
2.	Code	Julge	Surgery with Care				
3.	Study Programme	Modic	al nurses / Medic	al Toch	niciane		
4.	Organizer of the study				Ilicialis		
4.	Programme(unit or institute, Faculty, department)		ty of Medical Sciences ersity Goce Delcev				
5.	Level of studies (first, second, third cycle)	First	cycle				
6.	Academic year / semester	Fifth s	semester 7. Number of credits				
8.	Lecturer/Instructor(s)	Prof.A	Andreja Arsovski			<u>.</u>	
9.	Required prerequisite courses		-				
10.	Course objectives (co	mpetenc	es)				
	Learning of general su	•	•	en and t	horax.		
11.	 Introduction and background in surgery. Asepsis and anti-sepsis. Infections in surgery Injuries - General, Injuries - mechanical injuries - heat Shock and reanimation Anesthesia Bleeding and hemostasis. transfusion Contemporary diagnosis in surgery Acute abdomen. Ileus. hernia Stomach. Small and large intestine. Hepatic pancreatic tract. Breast Surgery Thyroid surgery Pleura surgery. Echinococcus lung Chest surgery. Injuries to the thorax and abdomen 						
40	Theoretical lectures, g	roup wo		cises, p	roject work		
13.	Total available time	la 4!	240				
14.	Distribution of availab		3+4+1				
15.	Forms of instruction	15.1.	.1. lectures - theoretical teaching		acning	45 hours	
	15.:		Exercises(laboratory,theoretical), Seminar project, teamwork		60 hours		
16.	5. Other forms of activities		Project tasks		15 hours		
	donvinos	16.2.	Individual tasks			15 hours	
		16.3.	Home learning			90 hours	
17.	Course methodology						
	17.1. Tests			70 points			
	17.2. Seminar (paper and/or oral)	/project	- presentation: w	ritten	10 point	ts	
•	17.3. Activity and par	ticipatio	on 20 points			ts	

18.	Grading system	up to 50 points	5 (five) (F)
		51 to 60 points	6 (six) (E)
		61 to 70 points	7 (seven) (D)
		71 to 80 points	8 (eight) (C)
		81 to 90 points	9 (nine) (B)
		91 to 100 points	10 (ten) (A)
19.	Signature and final exam prerequisites	60% achievement on all pre-exa	m activities
20.	Language of instruction	Macedonian	
21.	Course evaluation	Self evaluation	

	Literature							
		Required literature						
	22.1.	No.	Author	Title	Publisher	Year		
		1. J.Panovski	General Surgery					
		2.	J.Panovski	Special Surgery				
		3.						
		Supplementary literature						
	22.2.	No.	Author	Title	Publisher	Year		
		1.						

Anr	nex No.3	Course Progra	mme - first cycle st	udies			
1.	Course title		Gynecology and Obstetrics with care				
2.	Code						
3.	Study Programme		Medical nurses / Medical Technicians				
4.	Organizer of the study Programme(unit or institute, Faculty, department)		Faculty of Medical Sciences University Goce Delcev				
5.	Level of studies (first, second, third cycle)		First cycle				
6.	Academi semester	•	Fifth semester	7.	Number of credits	5	
8.	Lecturer	Instructor(s)	Prof. Dr.Gligor Dimitrov				
9.	Required courses	I prerequisite					

10. Course objectives (competences)

The theoretical instruction:

To gain knowledge in the field of gynecology and obstetrics. To understand working principles of the nurses and their responsibilities.

Practical instruction:

To acquire practical skills and knowledge in gynecology - basic diagnostic and therapeutic procedures, preoperative preparation and postoperative care.

11. Course content:

Theoretical instruction:

- 1. Anatomy of the external genital organs, anatomy of the internal genital organs
- 2. Physiology of external and internal genitalia. Physiology of menstrual cycle
- 3. Conception, embryogenesis, growth and development of fetus, placenta and membranes
- 4. Fundamentals of correctly family planning, contraception, unwanted pregnancy, termination of pregnancy
- 5. Early and late gestosi, illness during pregnancy, chronic disease and infections during pregnancy, bleeding during pregnancy
- 6. Before conceptual counseling, sequence and frequency of antepartum controls
- 7. Mechanism of normal childbirth, beginning, maternity time, pelvis childbirth mechanism, first care and reanimation of the newborn.
- Birth complications, breastfeeding-physiological complications in nursing, postpartum depression
- 8. Vulva-vaginitis, cervicitis, parametritis, Salpingo-ooforitis, the most common sexually-transmitted diseases
- 9. Benign neoplastic and non-neoplastic diseases: vagina, cervix body of uterus, adnexa
- 10. Definition of infertility, diagnosis and modern treatment of infertility, amenorrhoea-diagnosis and therapeutic procedures
- 11. Bleeding types associated with menstrual cycle, metroragia, basic principles of diagnosis and treatment of bleeding, dysmenorrhea
- 12. Diagnosis and therapy of cancers: vulva, vagina, cervix Body of uterus, tubes and Ovary

12.	gynecological and obs supervision, resolving	tetric p gynec	of group discussions, prace bhantoms, clinical exercises ological-obstetric cases-clinar paper presentations.	s with pa	tients under	
13.	Total available time		150			
14.	Distribution of available 2+2+1 time					
15.	Forms of instruction	15.1.	lectures - theoretical teacl	30 hours		
		15.2.	Exercises(laboratory,theoretical), Seminar project, teamwork		30 hours	
16.	Other forms of activities	16.1.	Project tasks	15 hours		
	activities	16.2.	Individual tasks		15 hours	
		16.3.	Home learning		60 hours	
17.	Course methodology					
	17.1. Tests		70 hou		rs	
	17.2. Seminar (paper and/or oral)	/projec	t - presentation: written 10 hou		rs	
	17.3. Activity and par	ticipati	on 20 hou		rs	
18.	Grading system	up	up to 50 points		(F)	
			51 to 60 points		6 (six) (E)	
			61 to 70 points		7 (seven) (D)	
			to 80 points	8 (eight) (C)		
			to 90 points 9 (nine			
40	O'am atama an I Caral		to 100 points 10 (ten) (A)			
19.	- 3					
20.	exam prerequisites Language of instruction Macedonian					
21.	Course evaluation		f-evaluation			
۷۱.	Course evaluation Sell-evaluation					

22.	Literature							
		Required literature						
		No.	Author	Title	Publisher	Year		
	22.1.	1.	Dimitrov G., Shterjovska-A. A.	Authorized lectures	UGD. Shtip	2013		
		2.	Mladenovik and co.	Gynecology and Obstetrics	Zavod za udzbenike, Beograd	2008		
		3.	Fraser, Cooper	Myles Textbook for Midwives, 15 th ed.	Churchill- Livingstone, Elsevier, Oxford-London- New York	2009		
		Supplementary literature						
	22.2.	No.	Author	Title	Publisher	Year		
		1.	Ristik	Practical	Freemental,	2006		

		gynecology	Белград	
2.	Ristik	Practical childbirth	Freemental, Белград	2001
3.	Shirimbal	practical obstetric	Medicinska kniga, Beograd- Zagreb	1985
4.	Henderson C., Macdonald S.	Mayes' Midwifery: A Textbook for Midwifes 13ed.	Bailliere- Tindall, Oxford- London-New York	2004

Ann	ex No.	~		first such studi				
		Course Progr	amme	- first cycle studi	es			
1.	Cours	e title	Orth	opedics and Trau	matolog	y with car	e	
2.	Code			•				
3.	Study	Programme	Med	Medical nurses / Medical Technicians				
4.		nizer of the study	Facu	ulty of Medical Sci	ences			
		amme(unit or		ersity Goce Delce	V			
	institu	ıte, Faculty,		-				
	depar	tment)						
5.	Level	of studies (first,	First	cycle				
	secor	nd, third cycle)						
6.	Acade	emic year /	Fifth	semester	7.	Number o	f	5
	seme	ster				credits		
8.	Lectu	rer/Instructor(s)	Prof	. George Zafiroski				
9.	Requi	red prerequisite						
	cours							
10.		se objectives (cor						
				orthopedics and tr	aumato	logy of Me	edical n	urses /
		al technicians fro	om ger	eral practice				
11.		se content:						
		ngenital underde						
				other congenital d			ماء	
		_		ther congenital an	iomaile	s of the ne	CK	
		perculosis of OAS	•					
		eomyelitis bliosis and kypho	cic					
		generative diseas		ha iointe				
		sculoskeletal tum						
				otor system and p	seudoa	rtrozi		
		venile osteonecr		otor oyotom ana p	Journal			
				rthopedic problem	s			
		thoses and pros			. •			
12.		se methodology:						
		0,	roup w	ork, practical exer	cises, p	roject wo	rk, e-lea	arning
13.	Total	available time		150	-	-		
14.	Distri	bution of availabl	е	2+2+1				
	time							
15.	Form	s of instruction	15.1.	lectures - theoret	ical tea	ching	30 hou	ırs
			15.2.	Exercises(labora			30 hou	ırs
				Seminar roject, to	eamwor	'k		
				_				
16.		forms of	16.1.	Project tasks			15 hoւ	ırs
	activities			Individual tasks			15 hoւ	ıre
	16.2. Individual tasks						13 1100	<u>.</u>
			16.3.	Home learning 60 hours			ırs	
17. Course methodology								
	17.1.	Tests				70 poin	ıts	
	17.2.	Seminar (paper	/projec	t - presentation: w	ritten	10 poin	its	
	and/or oral)							

	17.3.	Activity and partic	20 points		
18.	Grading system		up to 50 points	5 (five) (F)	
			51 to 60 points	6 (six) (E)	
			61 to 70 points	7 (seven) (D)	
			71 to 80 points	8 (eight) (C)	
			81 to 90 points	9 (nine) (B)	
			91 to 100 points	10 (ten) (A)	
19.	Signature and final exam prerequisites		60% achievement on all	I pre-exam activities	
20.	Langi	uage of instruction	Macedonian		
21.	Cours	se evaluation	Self evaluation		

	Required literature						
	No.	Author	Title	Publisher	Year		
22.1.	1.	Zafirovski, G. et al.	Pediatric Orthopedics	Culture	2003		
	2.	Greenslan, A.	Orthopedic report	Tabernakul	2011		
	3.						
	Sup	olementary literature	1	1			
22.2.	No.	Author	Title	Publisher	Year		
22.2.	1.	Tadzhdijan, M.	Clinical pediatric orthopedics	Apleton Lange	1997		

Anr	ex No.3	Course Progra	mme - first cycle s	tudies			
1.	Course t	title	Anaesthesiology and Resuscitation with care				
2.	Code						
3.		rogramme	Medical nurses / M				
4.	Organizer of the study Programme(unit or institute, Faculty, department)		Faculty of Medical Sciences University Goce Delcev				
5.		studies (first, third cycle)	First cycle				
6.	Academ semeste	•	Fifth semester	7.	Number of credits	4	
8.	Lecturer	/Instructor(s)	Prof. Dr.Jordan No	jkov			
9.	Required courses	d prerequisite					
10.		objectives (com					
			to basic and mode			logy	
			rinciples and proce	dures of	reanimation.		
11.	Course						
		cal study units	(() '-				
		uction. Types of					
			esia and their influe				
			ination and prepara	non for a	nestnesia		
	-	perative monitor	•	ne			
		mestnetic recov nal anesthesia	ery and complication	112			
	_	t and local anes	thesia				
	8. Reanimation, basic life support						

- 9. Reanimation, advanced life support
- or realimation, advanced inc support
- 10. Intensive treatment of comatose sick
- 11. Intensive treatment of sick with respiratory insufficiency
- 12. Intensive treatment of sick with electrolyte disbalance and shock

Practical teaching units

- 1. Anesthesiology Review Classification by ASA
- 2. Anesthesia machines, components, methods of functioning
- 3. Local anesthesia
- 4. Regional anesthesia spinal anesthesia
- 5. Artificial respiration and heart massage
- 6. Providing airway AMBU, airway
- 7. Providing airway endotracheal intubation, laryngeal massage
- 8. Defibrillation indications and procedure
- 9. Application of drugs
- 10. Therapy with crystalloid and colloid in shock
- 11. Transfusion therapy
- 12. Tracheostomy

12. Course methodology:

Theoretical instruction

Interactive teaching: lectures in large group, discussions, engaging students.

Multimedia teaching.

E-learning.

	Indivi	dual consultation	ns with	students and consultation	s in grou	ps.
		cal instruction			3	•
	Practi	cal laboratory ex	ercises	s in small groups.		
		practice.				
		available time		120		
14.	Distribution of available time			2+1+1		
15.	Forms	Forms of instruction 1		lectures - theoretical teac	hing	30 hours
	1		15.2.	Exercises(laboratory,theoretical), Seminar project, teamwork		15 hours
16.	• • • • • • • • • • • • • • • • • • • •	Other forms of 1 activities		Project tasks		15 hours
	activities		16.2.	Individual tasks		15 hours
			16.3.	Home learning		45 hours
17.	Cours	e methodology	1			l
	17.1.	Tests			70 points	
	17.2.	Seminar (paper and/or oral)	/projec	t - presentation: written	10 points	
	17.3.	Activity and par	ticipati	on	20 points	
18.	Gradi	ng system	up	to 50 points	5 (five)	(F)
		0 ,		to 60 points	6 (six) (E)	
			61	to 70 points	7 (seve	n) (D)
			71	to 80 points	8 (eight	t) (C)
			81	to 90 points	9 (nine)	
	[91 to 100 points 10 (ten		, , ,
19.	Signature and final 60° exam prerequisites			% achievement on all pre-e	xam activ	vities
20.	Langu	iage of instruction	n Ma	cedonian		
21.	Cours	e evaluation	Sel	f-evaluation		

22.	Litera	ture						
		Requ	iired literature					
		No.	Author	Title	Publisher	Year		
	22.1.	1.	Lalevich P.	Anaesthesiology	Zavod za udzebnike, Beograd	1999		
		2.	Vuchkovik D.	Intensive therapy	Zavod za udzebnike I nastavne sredstva	1998		
		3.						
		Supplementary literature						
		No.	Author	Title	Publisher	Year		
	22.2.	1.	Robert K. Stoelting Ronald D. Miller	Basics of Anesthesia: with Evolve Website, 5e	Churchill livingstone, Elsevier	2007		

Ann	Annex No.3 Course Programme - first cycle studies							
1.	Course t	itla	Dorr	matayanaralagy wi	th care			
2.	Code	ille	Den	natovenerology wi	un care			
3.		ogramme	Med	ical nurses / Medic	al Teck	nicians		
4.		er of the study	_	ulty of Medical Scie		IIIIOIAIIO		
••		me(unit or		ersity Goce Delce				
	_	Faculty,		,				
	departm	• •						
5.	Level of	studies (first,	Firs	First cycle				
		third cycle)						1
6.	Academi	•	Fifth	semester	7.	Number o	f	2
	semeste					credits		
8.		/Instructor(s)		. Dr.Vesna Grivche	eva Pan	ova		
9.	•	d prerequisite	none	е				
40	Courses	ahiaatiyaa (aam						
10.	7. Course objectives (competences) To learn the theoretical foundations of skin and Venereal diseases as well their							
	diagnosis and treatment in clinical practice.							
11.								
	1. Fundamentals and principles of dermatological diagnosis							
	2. Viral, bacterial and rickettsial diseases of the skin and mucous membrane							
	3. Sexually transmitted diseases of the skin and mucous membrane							
		-		ases of the skin an				
	5. Diseas	ses caused by	arthro	pods and worms w	ith skir	n changes		
				anaphylaxis. Skin				
	-		quamo	us diseases. Bullo	us deri	natoses. F	Pustulai	r
	diseases			·				
	•			isorders of connec		sue.		
				o-psychiatric disor enign and maligna		ors of the	ekin	
		ders of hair ar			ant tunn	ors or tire	SKIII.	
				e and female sexua	ıl organ	ıs.		
12.		nethodology:						
			oup w	ork, practical exer	cises, p	roject ass	ignmer	nts
13.		ailable time	-	60				
14.	Distribut	ion of availabl	е	2+0+1				
	time							
15.	Forms of	f instruction	15.1.	lectures - theoret	ical tea	ching	30 hou	ırs
			45.0		1		0.	
			15.2.	Exercises(laborate			0 hour	'S
				Seminar project,	teamwo	ork		
16	Other for	rms of	16.1	Drainat tacks			15 hou	ıro
10.			10.1. Floject tasks					
	activities	•	16.2. Individual tasks 5 hours			'S		
	16.3. Home learning 10 hours					ırs		
17.	Course r	methodology						
•		ests				70 poin	its	
-	17.2. Se	eminar (paper/	/projec	t - presentation: w	ritten	10 poin	its	
16.	17.1. Te	nethodology ests	16.3.	Project tasks Individual tasks Home learning		70 poin	10 hou	'S

		and/or oral)			
	17.3.	Activity and partic	ipation	20 points	
18.	B. Grading system		up to 50 points	5 (five) (F)	
			51 to 60 points	6 (six) (E)	
			61 to 70 points	7 (seven) (D)	
			71 to 80 points	8 (eight) (C)	
			81 to 90 points	9 (nine) (B)	
			91 to 100 points	10 (ten) (A)	
19.	_	ture and final prerequisites	60% achievement on all pr	e-exam activities	
20.	Langu	uage of instruction	Macedonian		
21.	Cours	se evaluation	Self-evaluation		

22.	Literature								
		Required literature							
		No.	Author	Title	Publisher	Year			
	22.1.	1.	Blchkova- Lashoska M., Starova A.	Clinical Dermatology with practicum for students and practitioners, 2 revised edition	HIB, Drestzo, Skopje	2000			
		2.	Anchevski A., Gocev G., Pavlova Lj., Petrova N.	Dermatovenerolo gy	Cultura, Skopje	2005			
		3.							
		Supp	Supplementary literature						
	22.2.	No.	Author	Title	Publisher	Year			
		1.							

Anr	nex No.3 Course Progra	amme - first cycle st	udies				
1.	Course title	Geriatric with care					
2.	Code						
3.	Study Programme	Medical nurses / Medical Technicians					
4.	Organizer of the study Programme(unit or institute, Faculty, department)	Faculty of Medical Sciences University Goce Delcev					
5.	Level of studies (first, second, third cycle)	First cycle					
6.	Academic year / semester	Fifth semester	7.	Number of credits	4		
8.	Lecturer/Instructor(s)	Prof. Dr.Biljana Iliev	vska Pop	oovska			
9.	Required prerequisite courses	None					
10	Course objectives (con	Course objectives (competences)					

10. Course objectives (competences)

Students to gain knowledge of pathogenesis, clinical presentation and treatment of the most common diseases. Special attention is paid to preventive measures and medical procedures.

Acquisition of skills in the process of health care, triage, health care planning, preventive medical measures, measures of rehabilitation.

11. Course content:

- 1. AGE AND AGEING (causes of aging, mechanisms of aging).
- 2. Old age is not a disease but LIFE THIRD AGE (childhood, mature age and third age).
- 3. AGEING, successfully ("normal") AGEING (characteristics of diseases of geriatric medicine completeness).
- 4. OLDER PATIENTS (ethics, elimination of age discrimination)
- 5. Taste and smell, gray hair, type
- 6. Eye diseases at older age (normal changes, more common diseases, glaucoma, senile cataract, diabetic retinopathy)
- 7. Ears and nose diseases at older age (presbycusis, nasal obstruction, olfactory disturbances, epistaxis, neoplasms of the nose)
- 8. Mouth diseases at older age (oral cavity and nutrition, taste and smell, sores, candidiasis, epidermoiden cancer)
- 9. Skin changes at older age
- 10. Falls at old age (factors that affect, reason, predisposition, prevention)
- 11. Urinary tract at old age, physiological mechanisms of micturition
- 12. Pathophysiology and Types of Incontinence (transient, permanent, emergency, stress, mixed, functional, Reflex, diagnosis, treatment)
- 13. Diseases of the digestive tract at older age,
- 14. Constipation and incontinence, irritable bowel syndrome
- 15. Ageing and osteoporosis (factors, menopause, diagnosis, treatment, prevention, recommendations)
- 16. Psychological changes at older age (depression, delirium, Alzhaimer, prevention)
- 17. Regulation of appetite, physiological anorexia, malnutrition (reasons, nutritional therapy)
- 18. Pressure sores (prevention, treatment)
- 19. Drugs at older age (required, side effects)

12.	Course methodology: Theoretical lectures, group work, practical exercises, project assignments							
13		available time	oup w	120	ojeci ass	igilileilis		
14.		bution of availabl	е	2+1+1				
15.	Forms of instruction 1		15.1.	lectures - theoretical teaching		30 hours		
		1			Exercises(laboratory,theoretical), Seminar project, teamwork			
16.		Other forms of 1 activities		Project tasks		5 hours		
	activit	iies	16.2.	Individual tasks		5 hours		
	<u>-</u>		16.3.	Home learning	me learning			
17.	Cours	se methodology	l					
	17.1.	Tests		70 poi		its		
	17.2.	Seminar (paper and/or oral)	/projec	roject - presentation: written 10		points		
	17.3.	Activity and par	ticipati	pation 20 poi		its		
18.	Gradi	ng system	up	to 50 points	5 (five)	(F)		
				to 60 points	6 (six) (
				to 70 points	7 (seve	, , ,		
				to 80 points	8 (eight	, , ,		
				to 90 points	9 (nine)			
40				91 to 100 points 10 (t				
19.	Signature and final 60% exam prerequisites			% achievement on all pre-ex	kam activ	rities		
20.	Langu	uage of instructio	n Ma	cedonian				
21.	Cours	se evaluation	Sel	lf-evaluation				

22.	Literature									
		Requ	ired literature							
		No.	Author	Title	Publisher	Year				
	22.1.	1.	Vukadinov J. and co.	Geriatrics for students of medicine	Faculty ofMedicine, University in Novi Sad	2006.				
		2.								
		3.								
		Supplementary literature								
		No.	Author	Title	Publisher	Year				
	22.2.	1.	Davidovich and co	Geriatrics	Faculty ofMedicine, Beograd	1998.				
		2.	Mezey DM, FulmerT, Abraham I, Zwicker DA.	Geriatric Nursing Protocols for Best Practice.	Springer Publishing Comp					

Anr	ex No.3 Course Prog	ıramme	- first cycle studi	ies			
1.	Course title	Ped	iatrics with care				
2.	Code		idinoo mini odi o				
3.	Study Programme	Med	lical nurses / Medic	cal Tec	hnicians		
4.	Organizer of the study Programme(unit or institute, Faculty, department)	Faculty of Medical Sciences University Goce Delcev					
5.	Level of studies (first, second, third cycle)	Firs	st cycle				
6.	Academic year / semester	Sixt	h semester	7.	Number o	f 6	
8.	Lecturer/Instructor(s)	Prof	. Elizabeta Zizovsl	ka			
9.	Required prerequisite courses						
10.	Course objectives (co To learn how to recog to treat young patient	nise the		seases	s at young a	age and how	
11.	Course content: Pathogenetic mechanism of disease, relationship and treatment of pediatric patients, motor-skeletal development, most common diseases at young age, nurses role, deviations of growth and development, detection of disabilities, methods of treatment						
12.	Theoretical lectures	Theoretical lectures Determining generations tree					
	Making short professi		oiect on an individ	lual pro	oblem		
13.		у	180				
14.	Distribution of availab	ole	3+2+1				
15.	Forms of instruction	15.1.	lectures - theoret	tical tea	aching	45 hours	
		15.2.	Exercises(labora Seminar project,			30 hours	
16.	Other forms of activities	16.1.	Project tasks			15 hours	
	donvines	16.2.	Individual tasks			15 hours	
		16.3.	Home learning			75 hours	
17.							
	17.1. Tests				70 poin		
		r/projec	ct - presentation: written 10 points		ts		
	and/or oral)						
	and/or oral) 17.3. Activity and pa	rticipati	on		20 poin	ts	
18.							
18.	17.3. Activity and pa	up	to 50 points to 60 points		20 poin 5 (five) 6 (six) ((F)	

		71 to 80 points	8 (eight) (C)
		81 to 90 points	9 (nine) (B)
		91 to 100 points	10 (ten) (A)
19.	Signature and final exam prerequisites	60% achievement on all p	re-exam activities
20.	Language of instruction	Macedonian	
21.	Course evaluation	Self-evaluation	

22.	Literature									
		Required literature								
		No.	Author	Title	Publisher	Year				
	22.1.	1.	Ziteli B.Dz, Dejvis H.V	Atlas of Pediatric Physical diagnosis.	Tabernakul	2011				
		2.	Mardeshik D. and co.	Pediatrics 6th edition	Skolska kniga, Zagreb	2003				
		3.	Peova S., Zizovska E.	For your baby with love	P&G ISBN 9989- 2257-1-0	2004				
		Supplementary literature								
		No.	Author	Title	Publisher	Year				
	22.2.	1.	Kiproska Nikanda	Advice for pregnant women, recommendations for successful breastfeeding.	UNICEF	1999				
		2.	Working group	Course for successful breastfeeding	UNICEF	1991				
		3.	Internet based resources	www.who.int www.unicef.org						

Ann	ex No.3 Course Progr	amme	- first cycle studies	 S			
4							
1.	Course title	Otor	Otorhinolaryngology with care				
2.	Code	 			 		
3.	Study Programme		ical nurses / Medica		icians		
4.	Organizer of the study Programme(unit or institute, Faculty, department)		aculty of Medical Sciences niversity Goce Delcev				
5.	Level of studies (first, second, third cycle)	First	t cycle				
6.	Academic year /	Sixt	h semester 7	'. N	umber o	f 5	
•	semester				redits		
8.	Lecturer/Instructor(s)	Prof	. Marina Davcheva (Juito		
9.	Required prerequisite	1101	. Marina Daveneva C	Jiiakai			
Э.	courses						
10.		nnotor	coe)			_	
IU.	Course objectives (cor						
44	Introduction to the bas	ICS OT	otorninolaryngology	1			
11.	Course content:		ND I				
	Introduction, basic teri						
	Physiology of hearing	and he	earing devices				
	Congenital deafness.						
	Paralysis.						
	Ear infections.						
	Para nasal sinuses - sy	•	•		t of disea	ases	
	Benign and malignant			ands.			
	Carcinoma of the oral	cavity a	and pharynx				
	Diseases of the larynx	and vo	cal cords				
	Carcinoma of the laryn	X					
	Injuries of the upper re		ory tract				
12.	Course methodology:	- _	•				
	Lectures, laboratory exconsultation.	ercise	s, e-learning, semin	ar pape	r, teamw	ork,	
13.	Total available time		150				
14.	Distribution of available	е	2+2+1				
	time						
15.	Forms of instruction	15.1.	lectures - theoretic	al teach	ning	30 hours	
		15.2.	Exercises(laborato Seminar project, te	•		30 hours	
16.	Other forms of activities	16.1.	Project tasks			15 hours	
		16.2.	Individual tasks			15 hours	
		16.3.	Home learning			60 hours	
17.	Course methodology	•			T		
	17.1. Tests				70 poin	ts	
	17.2. Seminar (paper and/or oral)	/projec	t - presentation: wri	tten	10 poin	ts	
	17.3. Activity and par	ticinati	on		20 poin	ts	
	Then they dire pur				5		

18.	Grading system	up to 50 points	5 (five) (F)
		51 to 60 points	6 (six) (E)
		61 to 70 points	7 (seven) (D)
		71 to 80 points	8 (eight) (C)
		81 to 90 points	9 (nine) (B)
		91 to 100 points	10 (ten) (A)
19.	Signature and final exam prerequisites	60% achievement on all pre-ex	kam activities
20.	Language of instruction	Macedonian	
21.	Course evaluation	Self-evaluation	

22.	Literature								
	22.1.	Required literature							
		No.	Author	Title	Publisher	Year			
		1.	Kosanovik M.	Otorhinolaryngology					
		Supp	lementary literature	·					
	22.2.	No.	Author	Title	Publisher	Year			
		1.							

Ane	x No.3	Course programm	е					
1.	Subje	ct title		nysical medicin	e wit	h reha	abilitation	1
2.	Code							
3.	Study	Programme		Medical nurses / Medical Technicians				S
4.	_	nizer of the study		culty of Medica				
		amme (faculty/ institut		nysical Medicin			sytherap	y
	•	tment)		niversity Goce I	Delce	ev		
5.	Level	of studies (first, second	, ∣Fiı	rst cycle				
	third c	ycle)						
6.	Acade	emic year / semester	Si	xth semester		Numb		4
							credits	
8.		rer/Instructor	Se	en. Lect. Lench	e Nik	olovs	ka, MA	
9.		red prerequisite	/					
	cours							
10.		se objectives (compete	ences)					
		etical instruction:	41	atiaal wawt af wi		41		habilitatian
		come familiar with the	tneor	etical part of pr	nysio	tnera	py and re	enabilitation
	and their application. Practical instruction:							
		come familiar with all	tynes	of physical the	ranv	their	nhysiolo	nical and
		peutic effects.	types	or priyatear the	ічру,	tiicii	priyatolo	giodi dila
11.		se content						
		principles and mecha	nisms	of physiothera	ру			
		otherapeutic Program		. ,	. ,			
		nd rehabilitation of rhe		c diseases;				
	PT. ar	nd rehabilitation in deg	genera	tive diseases				
		nd rehabilitation, ortho						
		nd rehabilitation of LM						
		nd rehabilitation of neu						
		nd rehabilitation of into						
		nd rehabilitation: disto	-	•				
40		nd rehabilitation: perip	nerai	nervous systen	<u>n</u>			
12.		se methodology: ctive teaching lecture:	c and t	tutorials prosti	aal a	voroio	os work	chonc
		discussions and indi			cai e	xercis	es, work	snops,
13.		available time	viduai	120				
14.		bution of available tim	<u>е</u>	2+1+1				
15.		s of instruction	15.1.		eorv		30 hours	 S
			15.2.	Exercises, se		ır	15 hours	
				project, team				
16.	Other	forms of activities	16.1.	Project work			15 hours	S
			16.2.	Individual wo	rk		15 hours	 S
			16.3.	Homework			45 hours	
			10.3.	Tioniework			+J HOU!	.
17.		se methodology				70	-11-	
	17.1.	Tests					oints	
	17.2.	Seminar paper / proje	ect (pro	esentation: writ	tten	10 p	oints	
	47.0	and oral)	4.			00		
	17.3.	Activity and participa					oints	
18.	Gradi	ng system	L	Jp to 50 points		5 (fiv	/e) (F)	

		51 - 60	6 (six) (E)
		61 - 70	7 (seven) (D)
		71 - 80	8 (eight) (C)
		81 - 90	9 (nine) (B)
		91 - 100	10 (ten) (A)
19.	Signature and final exam prerequisites	60% achievem	ent on all pre-exam activities
20.	Language of instruction	Macedonian	
21.	Course evaluation	Self-evaluation	1

22.	Literature									
		Required literature								
		No.	Author	Title	Publisher	Year				
	22.1.	1.	NikolovskaL., Stratorska T.	Physical Medicine and Rehabilitation	(Internal script) UGD - Stip	2009				
		2.			_					
		3.								
		Supplementary literature								
		No.	Author	Title	Publisher	Year				
		1.	Колева, В	Physical Therapy For Healthy Body	Sofija	2005				
	22.2.	2.	Reskova M., Koleva I.	Physical therapy (general and special part)	Sofija	2001				
		3.	Koleva I.	Fundamentals of the physical therapy and rehabilitation	FM-Pleven	2011				

Ann	nex No.3	Course Progr		- first cycle studi					
1.	Course t	itle	Eme	Emergency medicine with care					
2.	Code								
3.	Study Pr	ogramme	Med	ical nurses / Medi	cal Tec	hnicians			
4.	Organize	r of the study		Faculty of Medical Sciences					
	Program	me(unit or	Univ	ersity Goce Delce	V				
	institute,								
	departme								
5.		studies (first,	Firs	t cycle					
		third cycle)			1	T			
6.	Academi	-	Sixtl	h semester	7.	Number o	f	5	
	semeste					credits			
8.		Instructor(s)	Prof	. Jordan Nojkov					
9.	-	l prerequisite							
	courses								
10.		bjectives (cor	•	-					
			he leai	rnt theoretical mat	terial in	practice			
11.	Course c		_						
	1. Definition of emergency. Basic principles of treatment.								
	2. Shock (hemorrhagic, traumatic,, cardiac, septic, anaphylactic)3. Emergencies in cardiology (acute heart failure, rhythm disorders, coronary								
					re, rnyt	nm aisorae	ers, cord	onary	
	syndrome, acute myocardial infarction)								
	4. Emergencies in pulmology (acute respiratory failure, asthmatic status,								
	pneumothorax, pulmonary embolism)								
	5. Emergencies in GEH ("upper" and "lower" digestive bleeding, mesenteric thrombosis, pancreatitis, acute hepatic insufficiency)								
				y (acute renal insu		cy uremic s	vndron	16	
	_	ic, hypertensiv		•	IIIICICII	cy diennic s	yriai oii	ic,	
				ogy (diabetic keto	acidos	is hyno an	ď		
	hyperaly	caemic coma,	thyrot	ogy (diabelio kelo oxic crisis)	aoiaos	is, riypo ar	· G		
				vith drugs, pestici	des. co	rrosive sul	ostance	s.	
		- • •		oms. Basic princip					
								,	
		9. Emergency situations in neurology (cerebrovascular stroke, status epilepticus, myasthenic crisis, headache)							
	10. Emergency situations in psychiatry (depression, psychomotor agitation,								
	psychotic conditions, forced hospitalization)								
	11. Emergency situations in gynecology (bleeding in the first three months of								
	pregnacy, placenta previa, abruptio placentae, ruptura uteri, etc)								
	12. Emergency situations in paediatrics (convulsive syndrome, acute								
			asphyx	kia, premature new	vborn c	are)			
12.		nethodology:							
		, seminar proj	ect	T					
13.		ilable time		150					
14.	time	ion of availabl		2+2+1					
15.	Forms of	instruction	15.1.	lectures - theore	tical tea	aching	30 hou	ırs	

16.		Other forms of 1 activities		Project tasks		15 hours	
	activi	lies	16.2.	Individual tasks	15 hours		
			16.3.	Home learning		60 hours	
17.	Cours	se methodology				·	
	17.1.	Tests			70 poii	nts	
	17.2.	Seminar (paper/ and/or oral)	orojec	t - presentation: written	10 poi	nts	
	17.3.	Activity and parti	cipati	on	20 poii	nts	
18.	Gradi	rading system up to 50 points 51 to 60 points		to 50 points	5 (five)	(F)	
				51 to 60 points 6		6 (six)	(E)
			61	to 70 points	7 (seve	en) (D)	
				to 80 points	8 (eigh	nt) (C)	
			81	to 90 points	9 (nine	e) (B)	
			91	to 100 points	10 (ten	n) (A)	
19.	Signa	ture and final	60%	% achievement on all pre-e	xam acti	vities	
	exam prerequisites						
20.	Language of instruction		Ma	Macedonian			
21.	Cours	se evaluation	Sel	elf-evaluation			

22.	Literature							
		Requ	iired literature					
	22.1.	No.	Author	Title	Publisher	Year		
		1.	Jukic M et al.	Intensive Care	Medicinska naklada, Zagreb	2008		
		2.	Gjoric L et al.	Emergencies in Internal Medicine	Grafostig, Belgrad	1991		
		3.	Bay Lorens	Diagnosis and treatment in surgery				
		Supp	lementary literatur	<u> </u>	l			
		No.	Author	Title	Publisher	Year		
	22.2.	1.	Marx J et al.	Rosen's Emergency Medicine	MOSBY, Elsevier	2011		
		2.	Soljakova et al.	Anesthesiology with Reanimation (shock)	Cultura, Skopje	2006		

Ann	ex No.	~	amme	- first cycle studi	es				
4	Ca	4:41	NI4.	ition and Distation					
1.	Code	e title	Nutr	ition and Dietetics	<u> </u>				
2.	Code	Писаноми	Mod	iaal muraaa / Madia	al Tack	misiono			
3.		Programme		ical nurses / Medic		inicians			
4.		nizer of the study		ulty of Medical Science					
		amme(unit or	Univ	ersity Goce Delce	V				
		ite, Faculty, tment)							
5.	-	of studies (first,	Fire	st cycle					
٥.		d, third cycle)	FIIS	Cycle					
6.		emic year /	Four	rth semester	7.	Number o	f	2	
0.	semes	_	Tou	itii sciiicstei		credits	•	-	
8.		rer/Instructor(s)	Prof	. Nako Tashkov, P		orcaits			
9.		red prerequisite	1	Trans Tasimov, I					
••	cours		'						
10.		e objectives (cor	npeten	ces)					
				erent methods and	strated	ies conne	cted wi	th diet.	
11.		e content:							
	1. Bas	sic ingredients							
	2. Fac	tors that affect d	iet						
	3. Mai	nagement of daily	/ meals	3					
	4. Ene	ergetical metabol	ism						
		d digestibility							
		t quality							
		d quality		_					
		od losses that car							
		rmal processing							
		_	_	physical activity					
		itrition as preven		stures and argenal	antia al		lioo		
12.		se methodology:	ies, ież	atures and organol	eptic ci	iaracterisi	iics		
12.		0,	dividus	al and group work,	Dower	Daint ares	entatio	ne	
				nments, home lea				113,	
13.		available time	400.9	60		omma pr	0,00.0		
14.		oution of availabl	е	2+0+1					
	time								
15.		s of instruction	15.1.	lectures - theoret	ical tea	ching	30 hou	ırs	
						•			
			15.2.	Exercises(labora	tory,the	oretical),	0 hour	'S	
				Seminar, teamwo	rk				
16.		forms of	16.1.	Project tasks			15 hoւ	ırs	
	activit	iles	16.2.	Individual tasks			5 hour	's	
	16.3. Home learning 10 hours						ırs		
17.	Cours	e methodology	<u> </u>	<u> </u>					
	17.1.	Tests				70 poin	its		
	17.2.		roject	(presentation: write	tten	10 poin			
		and/or oral)	0,000	(F. Coornation: Will		.0 poin			

	17.3.	Activity and partic	ipation 20 points		
18.	Gradi	ng system	up to 50 points	5 (five) (F)	
			51 to 60 points	6 (six) (E)	
			61 to 70 points	7 (seven) (D)	
			71 to 80 points	8 (eight) (C)	
			81 to 90 points	9 (nine) (B)	
			91 to 100 points	10 (ten) (A)	
19.	_	ture and final prerequisites	60% achievement on all pre-	exam activities	
20.	Langi	uage of instruction	Macedonian		
21.	Cours	se evaluation	Self-evaluation		

22 .	Literature								
		Requ	ired literature						
		No.	Author	Title	Publisher	Year			
	22.1.	1.	Tashkov N.	Nutrition and dietetics " internal script					
		2.							
		3.							
		Supp	lementary literature)		•			
		No.	Author	Title	Publisher	Year			
	22.2.	1.	Garrow S. J., Ralph A., William Philip Trehearne James,	"Human Nutrition and Dietet"	Elsevier	2000			
		2.	Rosic M., Rosic G., Angelkovic I.,	Nutrition Principles and recreation	Singidunum University, Belgrade	2009			
		3.							

Ann	ex No.3 Course Progr	amme	- first cycle studi	ies			
1.	Course title	Soci	ology of health an	d dise	ase		
2.	Code						
3.	Study Programme	Med	ical nurses / Medi	cal Tec	hnicians		
4.	Organizer of the study		ulty of Medical Sci				
	Programme(unit or		ersity Goce Delce				
	institute, Faculty,		•				
	department)						
5.	Level of studies (first,	First	cycle				
	second, third cycle)						
6.	Academic year /	Fou	rth semester	7.	Number o	f	2
	semester				credits		
8.	Lecturer/Instructor(s)	Prof	. Vlado Petrovski,	Ph.D			
9.	Required prerequisite	1					
	courses		-				
10.	Course objectives (cor	•	,				
	Students to gain know	_	•			•	
	to be introduced to hea	alth and	d disease as a sub	ject of	the sociol	ogy of	
	medicine;						
	To gain knowledge abo					-1	
	Students will learn abo			en tne	e patient-do	ctor;	
11.	To gain knowledge of a Course content:	aiterna	iive medicine.				
11.	Sociology of Health an	d Diso	aca ahiaatiyas an	d daya	lonmont		
	The relationship betwe					other r	olated
	sciences;	en me	Sociology of fleat	iii aiiu	iiiiess aiiu	Other	Cialcu
	Origin and developme	nt of th	e sociology of hea	alth and	d disease.		
	Basic content and cate						
	Concepts of disease;	gonioo	or occioiogy or in	Jantin a	,		
	Mental health and men	tal dise	ease:				
	Doctor-patient relation		,				
	Professions and profes		ization of medical	practi	ce;		
	Alternative Medicine;			•	•		
12.	Course methodology:						
	Lectures, exercises, de	ebates,	discussions, essa	ays, co	nsultation,	individ	ual and
	group work, seminar p	aper aı	nd presentations				
13.	Total available time		60				
14.	Distribution of available	е	1+1+1				
	time	1				1	
15.	Forms of instruction	15.1.	lectures - theore	tical te	aching	15 hoւ	ırs
		15.2.	Exercises(labora	•	eoretical),	15 hoւ	ırs
			Seminar, teamwo	ork			
4.0	Other forms of	10.4	Duelect test-s			4E !	
16.	Other forms of	16.1.	Project tasks			15 hoւ	urs
	activities	16.2.	Individual tasks			5 hour	rs
		16.3.	Home learning			10 hoւ	urs
17.	Course methodology	<u> </u>	<u> </u>				
	- Course inclinations						

	17.1.	Tests		70 points	
	17.2.	Seminar paper/pro and/or oral)	oject (presentation: written	10 points	
	17.3.	Activity and partic	ipation	20 points	
18.	Gradi	ng system	up to 50 points	5 (five) (F)	
			51 to 60 points	6 (six) (E)	
			61 to 70 points	7 (seven) (D)	
			71 to 80 points	8 (eight) (C)	
			81 to 90 points	9 (nine) (B)	
			91 to 100 points	10 (ten) (A)	
19.	Signa	ture and final	60% success from all pre-exam activities or 42 points		
	exam	prerequisites	from the mid-term tests and the seminar paper as		
			well as attendance and participation in class		
20.	Langu	uage of instruction	Macedonian		
21.	Cours	se evaluation	Self-evaluation		

22	Literature								
•	22.1.	Requ	uired literature						
		No.	Author	Title	Publisher	Year			
		1.	Kostovski S., Sarkanyac B.	Sociology of medicine	Skopje	1999			
		2.	Tasheva M.	Sociology	Faculty of Philosophy - Skopje	2003			
		3.	Petrovski V.	Sociology	Faculty of Pedagogy - Stip	2006			
		4.			•				
	22.2.	Supp	lementary literatu	re	,	-1			
		No.	Author	Title	Publisher	Year			
		1.	Markovik D.	General Sociology	Nis	2011			
		2.							

Anr	nex No.3	Course Programme -	first c	ycle studies	
1.	Course title	Intrahospital infection	ns		
2.	Code				
3.	Study Programme	Medical nurses / Med	ical Te	chnicians	
4.	Organizer of the study programme(unit or institute, faculty, department)	Faculty of Medical Sciences University Goce Delcev			
5.	Level of studies (first, second, third cycle)	First cycle			
6.	Academic year / semester	Fourth semester	7.	Number of credits	2
8.	Lecturer/Instructor	Prof. Milka Zdravkovska, Ph.D			
9.	Required prerequisite courses	None			

10. Course objectives (competences)

The student to recognize the importance of intrahospital infections as a public health problem and to understand the importance of the control of intrahospital infections, to know how to define and recognize intrahospital infections and risk factors that influence or are the dominant; To acquire knowledge and skills for the control, suppression and prevention of intrahospital infections;

11. Course content:

Theoretical lectures:

- 1. Definition and importance of intra-hospital infections
- 2. Need for epidemiological approach to control intra-hospital infections
- 3. Etiology of intra-hospital infections
- 4. Occurrence and pathways of transmission of intra-hospital infections
- 5. Separation of intra-hospital infections
- 6. Disinfection and Sterilization
- 7. Medical waste and intrahospital infections
- 8. Prevention of intrahospital infections
- 9. Types of epidemiological observation and control of intra-hospital infections
- 10. Organizational structure and regulation in the control of intra-hospital infections
- 11. The importance of teamwork and the interdisciplinary access control of intrahospital infections
- 12. Elements of control of intra-hospital infections

Skills for control of intra-hospital infections:

- 1. Proper hand hygiene, control of hand hygiene of healthcare workers;
- 2. Proper disinfection of work surfaces and objects in the hospital environment;
- 3. Correctly taking a swabs from the nose, throat and wound
- 4. Proper processing / taking a material for microbiological diagnosis from patients with intrahospital infections.
- 5. Criticality in the determination and the taking of material for microbiological diagnosis
- 6. Properly packaging and transportation of the samples for microbiological diagnosis

- 7. Procedures of emergence / isolation of MRSA
- 8. Proper sampling of material for air control in the hospital environment (operating rooms, intensive care units)
- 9. Group discussion procedures and suggested measures for the suppression and control of IHI in certain situations.
- 10. Working in small groups / teams procedures and suggested measures for the suppression and control of IHI in certain situations (as examples for IHI)
- 11. Filing of a unified application for each patient with IHI
- 12. Determination of incidence and prevalence rates of IHI
- 12. Course methodology:

Lectures, methods of group discussions, individual assignments, seminar paper;

	paper	Japer,							
13.	Total	available time		60					
14.	Distri time	bution of availab	le	2+0+1					
15.	Form	Forms of instruction 15.1.		lectures - theoretical tead	ching	30 hours			
			15.2.	Exercises(laboratory,theoretical), Seminar, teamwork		0 hours			
16.		Other forms of 16.1. Project tasks		15 hours					
	activities		16.2.	Individual tasks		5 hours			
			16.3.	Home learning		10 hours			
17.	Cours	se methodology	I						
	17.1.				70 poin	nts			
	17.2. Seminar paper/project		/project	(presentation: written	10 poin	nts			
	17.3. Activity and participation			on	20 poin	its			
18.	Grading system			up to 50 points		(F)			
		51 to 60 points		to 60 points	6 (six)	(E)			
			61	to 70 points	7 (seve	n) (D)			
		71 to 8		to 80 points	8 (eigh	t) (C)			

			91 to 100 points	10 (ten) (A)			
19.	Signa	ture and final	Attendance and scored at leas	t 42 points from all			
	exam	prerequisites	pre-exam activities.				
20.	Langu	age of instruction	Macedonian				
21.	Cours	e evaluation	Self-evaluation				
22	Litera	ture					
		Required literature					

81 to 90 points

9 (nine) (B)

22	Litera	lure	16							
•	22.1.	Requ	Required literature							
		No.	Author	Title	Publisher	Year				
		1.	Zdravkovska M.	Authorized lectures						
		2.	K Popovska- Jovanovska	Nosocomial infections	Skopje	2003				
		3.	C. Glen Mayhall	Hospital Epidemiology and Infection Control,	Philadelphia, USA	2004				

			Third Edition,		
	4.				
22.2.	Supp	lementary literature			
	No.	Author	Title	Publisher	Year
	1.				

application of acquired knowledge in the practice further. Course content: Theoretical lectures: Introduction to health economics Costs in Healthcare Claims of health care markets Economic Research Distribution of medicines Promotion of drugs Creating a positive list of medicines Management of public health facilities Management of private healthcare facilities Funding of the Ministry of Health and Health Care Health Fund Economic efficiency of health care Practical instruction Practical exercises in accordance with theoretical lectures Course methodology: Total available time Distribution of available time 15. Forms of instruction 15.1. lectures - theoretical teaching Seminar, teamwork 16.0 Other forms of activities 16.1. Project tasks 15 hours 16.2. Individual tasks 5 hours 17.1. Tests 70 points	Anne	ex No.	-	amma	- first cycle studi	ias			
2. Code 3. Study Programme Medical nurses / Medical Technicians 4. Organizer of the study programme(unit or institute, faculty, department) 5. Level of studies (first, second, third cycle) 6. Academic year / semester Fifth semester 7. Number of credits 8. Lecturer/Instructor Prof. Tajko Micevski 9. Required prerequisite courses 10. Course objectives (competences) Students become familiar with the basics of health economics and pra application of acquired knowledge in the practice further. 11. Course content: Theoretical lectures:			Course Frogr	amme	- Ili Si Cycle Studi	163			
3. Study Programme Medical nurses / Medical Technicians	1.	Cours	e title	Heal	thcare Manageme	nt			
4. Organizer of the study programme(unit or institute, faculty, department) 5. Level of studies (first, second, third cycle) 6. Academic year / semester 8. Lecturer/Instructor 9. Required prerequisite courses 10. Course objectives (competences) Students become familiar with the basics of health economics and pra application of acquired knowledge in the practice further. 11. Course content: Theoretical lectures: Introduction to health economics Costs in Healthcare Claims of health care markets Economic Research Distribution of medicines Promotion of drugs Creating a positive list of medicines Management of public health facilities Management of private healthcare facilities Funding of the Ministry of Health and Health Care Health Fund Economic efficiency of health care Practical instruction Practical exercises in accordance with theoretical lectures 12. Course methodology: 13. Total available time 14. Distribution of available time 15. Forms of instruction Forms of instruction 15.1. Exercises(laboratory, theoretical), 0 house seminar, teamwork 16.2. Individual tasks 15 house methodology 17.1. Tests 170 points	2.	Code							
programme(unit or institute, faculty, department) 5. Level of studies (first, second, third cycle) 6. Academic year / Fifth semester 7. Number of credits 8. Lecturer/Instructor Prof. Tajko Micevski 9. Required prerequisite courses 10. Course objectives (competences) Students become familiar with the basics of health economics and pra application of acquired knowledge in the practice further. 11. Course content: Theoretical lectures:	3.	Study	Programme	Med	ical nurses / Medi	cal Techn	icians		
5. Level of studies (first, second, third cycle) 6. Academic year / semester 7. Number of credits 8. Lecturer/Instructor 9. Required prerequisite courses 10. Course objectives (competences) Students become familiar with the basics of health economics and pra application of acquired knowledge in the practice further. 11. Course content: Theoretical lectures: Introduction to health economics Costs in Healthcare Claims of health care markets Economic Research Distribution of medicines Promotion of drugs Creating a positive list of medicines Nanagement of private healthcare facilities Nanagement of private health and Health Care Health Fund Economic efficiency of health care Practical instruction Practical exercises in accordance with theoretical lectures 12. Course methodology: 13. Total available time 14. Distribution of available time 15. Forms of instruction 16. Other forms of activities 17. Individual tasks 15. hot activities 17. Course methodology 17.1. Tests 17. Number of credits 7. Number of services in activities 7. Number of services in a	4.	programme(unit or uninstitute, faculty,			_				
6. Academic year / semester 8. Lecturer/Instructor 9. Required prerequisite courses 10. Course objectives (competences) Students become familiar with the basics of health economics and pra application of acquired knowledge in the practice further. 11. Course content: Theoretical lectures: Introduction to health economics Costs in Healthcare Claims of health care markets Economic Research Distribution of medicines Promotion of drugs Creating a positive list of medicines Prunding of the Ministry of Health and Health Care Health Fund Economic efficiency of health care Practical instruction Practical exercises in accordance with theoretical lectures 12. Course methodology: 13. Total available time 15. Forms of instruction 15.1 lectures - theoretical teaching 15.2 Exercises(laboratory,theoretical), 0 hot seminar, teamwork 16. Other forms of activities 17. Course methodology 17.1. Tests 17. Doints	5.	Level	of studies (first,	First	cycle				
8. Lecturer/Instructor Prof. Tajko Micevski 9. Required prerequisite courses 10. Course objectives (competences) Students become familiar with the basics of health economics and pra application of acquired knowledge in the practice further. 11. Course content: Theoretical lectures: Introduction to health economics	6			Eifth	Fifth samester 7 Number of			2	
8. Lecturer/Instructor 9. Required prerequisite courses 10. Course objectives (competences) Students become familiar with the basics of health economics and pra application of acquired knowledge in the practice further. 11. Course content: Theoretical lectures: Introduction to health economics Costs in Healthcare Claims of health care markets Economic Research Distribution of medicines Promotion of drugs Creating a positive list of medicines Management of public health facilities Management of private healthcare facilities Funding of the Ministry of Health and Health Care Health Fund Economic efficiency of health care Practical instruction Practical exercises in accordance with theoretical lectures 12. Course methodology: 13. Total available time Distribution of available time 14. Distribution of available time 15. Forms of instruction 15.2. Exercises(laboratory,theoretical), Seminar, teamwork 16.1. Project tasks 15 hours of activities 16.2. Individual tasks 15 hours of activities 17. Course methodology 17.1. Tests 17. Design Micevski 18 dealth economics 18 health economics and practice in the lath the basics of health economics and practice in the practice further. 18 health economics 19 health economics 10 health economics 10 health economics 10 health economics 11 health economics 12 health economics 13 health economics 14 health economics 15 health economics 16 health economics 16 health economics 16 health economics 17 health economics 18 health economics 19 health economics 10 health economics 11 health economics 12 health economics 13 health economics 14 health economics 15 health economics 16 health economics 16 health economics 17 health economics 18 health economics 19 health economics 19 health economics 10 health economi	О.		_	Filth	semester			1	2
9. Required prerequisite courses 10. Course objectives (competences) Students become familiar with the basics of health economics and pra application of acquired knowledge in the practice further. 11. Course content: Theoretical lectures: Introduction to health economics Costs in Healthcare Claims of health care markets Economic Research Distribution of drugs Creating a positive list of medicines Management of public health facilities Management of private healthcare facilities Funding of the Ministry of Health and Health Care Health Fund Economic efficiency of health care Practical instruction Practical exercises in accordance with theoretical lectures 12. Course methodology: 13. Total available time 14. Distribution of available time 15. Forms of instruction 15.1 lectures - theoretical teaching Seminar, teamwork 16.1 Project tasks 15 hou 16.2 Individual tasks 5 hou 16.3 Home learning 10 hot	0			Drof	Tailsa Miaassalsi	C	reaits		
Course objectives (competences) Students become familiar with the basics of health economics and pra application of acquired knowledge in the practice further. Course content: Theoretical lectures: Introduction to health economics Costs in Healthcare Claims of health care markets Economic Research Distribution of medicines Promotion of drugs Creating a positive list of medicines Management of public health facilities Management of private healthcare facilities Funding of the Ministry of Health and Health Care Health Fund Economic efficiency of health care Practical instruction Practical exercises in accordance with theoretical lectures Course methodology: Total available time 60 Distribution of available 2+0+1 time 15.1. lectures - theoretical teaching 30 hot Seminar, teamwork 16.1. Project tasks 15 hot Course methodology 16.2. Individual tasks 5 hot 16.3. Home learning 10 hot Course methodology 17.1. Tests 70 points				Pror	. Tajko Micevski				
Students become familiar with the basics of health economics and pra application of acquired knowledge in the practice further. 11. Course content: Theoretical lectures:	9.								
11. Course content: Theoretical lectures: Introduction to health economics Costs in Healthcare Claims of health care markets Economic Research Distribution of medicines Promotion of drugs Creating a positive list of medicines Management of public health facilities Management of private healthcare facilities Funding of the Ministry of Health and Health Care Health Fund Economic efficiency of health care Practical instruction Practical exercises in accordance with theoretical lectures 12. Course methodology: 13. Total available time 14. Distribution of available time 15. Forms of instruction 15.1 lectures - theoretical teaching 15.2 Exercises(laboratory,theoretical), Seminar, teamwork 16.1 lectures - theoretical teaching 15.2 lectures - theoretical teaching 16.3 Home learning 10 hotelease 17. Course methodology 17.1. Tests 17. points	10.	Students become familiar with the basics of health economics and practical					tical		
15. Forms of instruction 15.1. lectures - theoretical teaching 15.2. Exercises (laboratory, theoretical), Seminar, teamwork 16. Other forms of activities 16.1. Project tasks 16.2. Individual tasks 16.3. Home learning 17. Course methodology 17.1. Tests 18.1. lectures - theoretical teaching 19.10 hoursestable in the course of the course the cou	12. 13.	Cours Theor Intro Cost Clair Ecor Pror Man Heal Ecor Practi Cours Total Distril	te content: tetical lectures: duction to health is in Healthcare ms of health care nomic Research ribution of medic notion of drugs sting a positive list agement of public agement of privation ding of the Minist th Fund nomic efficiency of cal instruction cal exercises in a se methodology: available time	marke ines ines c healt te healt ry of H	edicines th facilities thcare facilities ealth and Health C	are			
16. Other forms of activities 16.1. Project tasks 15 hours activities 16.2. Individual tasks 5 hours activities 16.3. Home learning 10 hours activities 17. Course methodology 70 points	15.	Forms of instruction 1			Exercises(labora	tory,theo	_	30 hou	
16.2. Individual tasks 5 hours 16.3. Home learning 10 hours 17.1. Tests 70 points	16.	Other	forms of	16.1.	*	ЛК		15 hou	ırs
17. Course methodology 17.1. Tests 70 points		activit	ies	16.2.	-			5 hou	'S
17.1. Tests 70 points				16.3.	Home learning			10 hou	ırs
17.1. Tests 70 points	17.	Cours	e methodology	<u> </u>	l			1	
							70 poin	ıts	
17.2. Seminar paper/project (presentation: written and/or oral)	-		Seminar paper/p	roject	(presentation: wri	tten			

	17.3.	Activity and partic	ipation	20 points
18.	Gradi	ng system	up to 50 points	5 (five) (F)
			51 to 60 points	6 (six) (E)
			61 to 70 points	7 (seven) (D)
			71 to 80 points	8 (eight) (C)
			81 to 90 points	9 (nine) (B)
			91 to 100 points	10 (ten) (A)
19.		ture and final	Attendance and scored a	at least 42 points before the
	exam	prerequisites	test activities.	
20.	Langi	uage of instruction	Macedonian	·
21.	Cours	se evaluation	Self-evaluation	

22	Litera	Literature							
-	22.1.	Requ	uired literature						
		No.	Author	Title	Publisher	Year			
		1.	Gladiolov, St., Evg. Delcheva S	Healthcare economics	"Princeps				
		2.	Authorized lectures						
		3.							
	22.2.	Supp	lementary literature	,	•				
		No.	Author	Title	Publisher	Year			

Ann	nex No.3 Course Progra	amme	- first cycle stud	ies			
1.	Course title	Nurs	sing healthcare				
2.	Code						
3.	Study Programme	Med	ical nurses / Medi	cal Tec	hnicians		
4.	Organizer of the study	Facu	ılty of Medical Sci	ences			
	programme(unit or	Univ	ersity Goce Delce	V			
	institute, faculty,						
	department)						
5.	Level of studies (first,	First	cycle				
	second, third cycle)						
6.	Academic year /	Fifth	semester	7.	Number of	f	2
	semester	A	1 1 1 1		credits	DI D	
8.	Lecturer/Instructor(s)		Lecturer/Instruct	orGord	anaPanova	, PhD	
9.	Required prerequisite	Non	е				
10.	Course chiestives (com	notor	coc)				
10.	Course objectives (competences) The course contributes primarily to the development of the following general						
	and specific competences: Understanding the role of the nurse not only as the						
	performance of duty but rather mandatory input of love and compassion in						
	working with patients.						
	The protection of health is an issue for any society, even today. Health						
	protection should include prevention, to prevent diseases. You need to prevent						
	what could increase health culture ie how to protect health. If the person does						
	not accept our advice, it takes nothing into account such as obligations set by						
	the nurse, then there is nothing from prevention. The prevention depends on						
	the awareness, knowledge, health culture of the population.						
11.	Course content: Introduction to the content and importance of the subject						
		ent ar	id importance of t	ne sub	ject		
	Nursing health care. Polyvalent and monova	lont h	nalth caro				
	Plan and Programme of						
	Protection of women in			od:			
	Protection of infant, you	•	· •	· · · · · · · · · · · · · · · · · · ·			
	Protecting the pre-scho	_	,				
	Protection of workers, p	orotec	tion of retiree;				
	Prevention of contagiou	us and	l venereal Disease	es;			
	Protection of physical d	_	-				
	Protecting disease addi	-					
	Rendering of house car						
	Protection of chronic di		s and non-commu	ınıcabl	e diseases;		
	Gerontology prophylaxi	•	nor or tochnique	of work	to fulfill the	air taal	с Л
	Visits by the nurse are a manner or technique of work to fulfill their tasks. A method is the way in which the nurse will perform its duties.						
	The basic method of wo		-			discus	sions
	can and usually work in				•		
12.	Course methodology:Le		•			<u> </u>	
13.	Total available time		60	 -	•		
14.	Distribution of available	•	2+0+1				
	time						
15.	Forms of instruction	15.1.	lectures - theore	tical tea	aching	30 hou	ırs

		15.2.	Exercises(laboratory,theorems) Seminar, teamwork	retical),	0 hours
16.	Other forms of activities	16.1.	Project tasks		15 hours
	16.		Individual tasks		5 hours
			Home learning		10 hours
17.	Course methodol	ogy			
	17.1. Tests		70 poin		its
			ect (presentation: written 10 poir		its
	17.3. Activity and	d participati	pation 20		its
18.	Grading system	u	p to 50 points	5 (five) (F)	
		5	1 to 60 points	6 (six)	(E)
		6	31 to 70 points	7 (seve	n) (D)
		7	1 to 80 points	8 (eight	t) (C)
		8	1 to 90 points	9 (nine)) (B)
			1 to 100 points	10 (ten)	
19.	Signature and fina prerequisites		ttendance and scored at leare- re-exam activities.	ist 42 po	oints from all
20.	Language of instr	uction M	lacedonian		
21.	Course evaluation	n S	elf-evaluation		

22.	Litera	ture							
		Requ	Required literature						
		No.	Author	Title	Publisher	Year			
		1.	Panova G.	Nursing healthcare	UGD-Stip	2010			
	22.1.	2.	Likar D.	General and special care of sick;	Prosvetno delo, Skopje	2000			
		3.	P. Barhash. A.	Care of sick and medical equipment;	Tabenakul, Skopje	2010			
		Supplementary literature							
	22.2.	No.	Author	Title	Publisher	Year			
		1.	Fuchkar G.	Process of nursing health care; Medical School- Zagreb	Medical School-Zagreb	2007			
		2.	Krstik A.	New contents of nursing work;	Faculty of Medicine, Beograd	2005			
		3.		Preventive health care	Tabernakul, Skopje	2011			

Ann	ex No.3 Course Prog	ramme	- first cycle studies	5			
1.	Course title	Fire	t Medical Aid				
2.	Code	1113	t Medical Ald				
3.	Study Programme	Med	ical nurses / Medical	l Techn	icians		
4.	Organizer of the study		ulty of Medical Scien				
	programme(unit or		versity Goce Delcev				
	institute, faculty,		-				
	department)						
5.	Level of studies (first,	Firs	t cycle				
	second, third cycle)					_	
6.	Academic year /	Sixt	h semester 7		lumber o	f	2
	semester	Descri	De Jandan Nallan	С	redits		
8.	Lecturer/Instructor		. Dr. Jordan Nojkov				
9.	Required prerequisite	non	e				
10.	courses Course objectives (cor	mnoton	icos)				
10.	Acquireing skills to sa	-	nrever	nt further	iniury	and	
	complications, perform						
	of skills of cardio puln				oo alouo	.0.0, .00	9
11.	Course content:						
	1.Introduction in cardi	ac puln	nonary and brain res	uscitat	ion		
	2. Acute respiratory failure						
	3. Acute cessation of the heart (CA)						
	4. Basic life support						
	5. Advanced life support						
	6. Extended life support 7. First aid and poly-trauma fracture						
	8. First aid and poly-tra						
	9. First aid for burns, s	_	om the electricity				
	10. First aid for frostbi						
	11. First aid for impair						
	12. First aid and triage	in mas	ssive disasters				
12.	Course methodology:						
13.	Total available time		60				
14.	Distribution of availab	le	2+0+1				
	time						
15.	Forms of instruction	15.1.	lectures - theoretic	al teacl	ning	30 hou	ırs
		15.2.	Eversions/leberate	m. thaa	rotical)	0 hour	<u> </u>
		15.2.	Exercises(laborato Seminar, teamwork	-	retical),	0 hour	S
			Jenniai, tealliwork	•			
16.	Other forms of	16.1.	Project tasks			15 hoւ	ırs
	activities						
		16.2.	Individual tasks 5		5 hour	S	
		16.3.	Home learning			10 hoւ	ıre
		10.3.	Trome learning				
17.	Course methodology						
	17.1. Tests				70 poin		
		project	t (presentation: writt	ten	10 poin	its	
	and/or oral)						

	17.3.	Activity and partic	ipation	20 points
18.	Gradi	ng system	up to 50 points	5 (five) (F)
			51 to 60 points	6 (six) (E)
			61 to 70 points	7 (seven) (D)
			71 to 80 points	8 (eight) (C)
			81 to 90 points	9 (nine) (B)
			91 to 100 points	10 (ten) (A)
19.		ture and final	Attendance and scored at least	st 42 points before the
	exam	prerequisites	test activities.	
20.	Langi	uage of instruction	Macedonian	
21.	Cours	se evaluation	Self-evaluation	

22	Litera	ture							
•	22.1.	Requ	Required literature						
		No.	Author	Title	Publisher	Year			
		1.	Nojkov, J. faculty	Authorized lectures	Medical Sciences - UGD				
		2.	Mary Shosholcheva	Cardiac Pulmonary Brain Resuscitation	Department of anesthesiology-resuscitation, Faculty of Medicine,Skopje				
		3.							
	22.2.	Supp	Supplementary literature						
		No.	Author	Title	Publisher	Year			
		1.							

Ann	ex No.3 Course Progr	amme	- first cycle studi	es			
4	O a series dista	0					
1. 2.	Course title Code	Sexi	ually Transmitted I	Jiseases	<u> </u>		
3.		Mod	ical nurses / Medio	sal Tachi	nicione		
4.	Study Programme Organizer of the study		ulty of Medical Sci		licialis		
	programme(unit or institute, faculty, department)	Univ	versity Goce Delce				
5.	Level of studies (first, second, third cycle)	First	t cycle				
6.	Academic year /	Sixt	h semester	7. N	lumber o	f	2
	semester			C	redits		
8.	Lecturer/Instructor	Ass	oc. prof. Dr. Velo N	<u>larkovsk</u>	i, PhD		
9.	Required prerequisite courses	none	<u></u>				
10.	Etiology, epidemiology and significance for human pathology, social psychological and economic effects of sexually transmitted diseases, the prevention of sexually transmitted diseases, diagnosis and treatment						
	 Course content: 1. Meaning of sexually transmitted diseases, identification, protection, diagnosis and treatment 2. Urinary infections 3. Genital and anorectal infections 4. HPV infections 5. HIV 6. Hepatitis B 7. Herpes virus infections 8. Syphilis 9. Gonorrhea 10. Ureaplasmas and chlamydia 11. Genital warts 						
12.	12. Fungal and parasiti Course methodology:			nethod o	f practica	l work	
13.	Total available time		60	.500	. p. aotiou		
14.	Distribution of available time	e	2+0+1				
15.	Forms of instruction	15.1.	lectures - theoret	ical teac	hing	30 hou	irs
		15.2. Exercises(laboratory,theoretical), 0 hours Seminar, teamwork					s
16.	Other forms of activities	16.1.	Project tasks			15 hoւ	irs
	431111100	16.2.	Individual tasks			5 hour	
		16.3.	Home learning			10 hoւ	ırs
17.	Course methodology				T=c -		
	17.1. Tests				70 poin		
	17.2. Seminar paper/p	roject	(presentation: wri	tten	10 poin	its	

		and/or oral)		
	17.3.	Activity and partic	ipation	20 points
18.	8. Grading system		up to 50 points	5 (five) (F)
			51 to 60 points	6 (six) (E)
			61 to 70 points	7 (seven) (D)
			71 to 80 points	8 (eight) (C)
			81 to 90 points	9 (nine) (B)
			91 to 100 points	10 (ten) (A)
19.	Signa	ture and final	Attendance and scored	at least 42 points before the
	exam	prerequisites	test activities.	-
20.	Langu	uage of instruction	Macedonian	
21.	Cours	se evaluation	Self-evaluation	

	Requ	Required literature						
22.1	No.	Author	Title	Publisher	Year			
	1.	Markovski V.	Authorised lectures	UGD				
	Supplementary literature							
22.2	No.	Author	Title	Publisher	Year			
	1.							