Attachment No. 3		Course program of the first cycle of studies			
1.	Course title	Internal medicine			
2.	Code	DMMIM3			
3.	Study program	Dentistry - integrated first and second cycle of studies			
4.	Organizer of the study program (unit, i.e., institute, department, division)	University "Ss. Cyril and Methodius" in Skopje, Faculty of Medicine – Skopje, Department of Internal Medicine			
5.	Degree (first, second, third cycle)	Integrated First and Second Cycle Studies			
6.	Academic year/semester	Year	3	Semester	5
7	Course workload expressed in ECTS credits	9			
8.	Teacher	Teacher in charge: Head of the Department of Internal Medicine Prof. Dr. Beti Todorovska Teaching is carried out by all members of the department			
9.	Language in which the curriculum is conducted	English			
10.	Necessary prerequisites for taking and passing the course	Completed all compulsory subjects from the second year and passed all compulsory subjects from the first year			
11.	Course objectives (competences) and learning outcomes:	The student will learn and master the skills within the framework of rational diagnostics and modern treatment of internal diseases. The student will become familiar with the basic principles of diagnosis, thinking about differential diagnosis and treatment within the framework of internal medicine.			
12.	Detailed course content by chapters and units with learning outcomes for each chapter	Theoretical teaching - lectures 1. Endocrinology – 8 classes - diabetes mellitus, micro and macrovascular complications of diabetes..... 2 classes - acute complications, ketoacidosis and hypoglycemia.....2 classes - oral manifestations and treatment of endocrine diseases..... 1 class - thyroid diseases – hyperfunction, hypofunction.....1 class - adrenal gland diseases – Addison's disease, Cushing's, parathyroid gland diseases, hypoparathyroidism and hyperparathyroidism; osteoporosis...2 classes Results from chapter 1: The student will be familiar with the basic principles of diagnosing, thinking about the differential diagnosis and treatment of patients with diabetes mellitus (with its complications), thyroid diseases, adrenal gland diseases, and parathyroid gland diseases. 2. Toxicology – 4 classes - signs and symptoms of acute poisonings .....2 classes - urgent conditions in toxicology .....2 classes Results from chapter 2: The student will be familiar with the basic principles of diagnosing, thinking about differential diagnosis and treatment of patients with acute poisonings and urgent conditions in toxicology. 3. Gastroenterohepatology – 8 classes - diseases of the esophagus and stomach.....3 classes - inflammatory bowel diseases (small and large intestine).....1 class - disease of the colon.....1 class - disease of the biliary system and pancreas.....1 class - disease of the liver.....2 classes Results from chapter 3: The student will be familiar with the basic principles of diagnosing, thinking about the differential diagnosis and treatment of patients with diseases of the gastrointestinal tract, diseases of the hepatobiliary system, and pancreas.			

		4. Hematology – 7 classes - hemorrhagic syndromes.....1 class - anemic syndromes.....2 classes - thrombotic disorders and anticoagulant therapy.....1 class - acute leukemias.....1 class - myeloproliferative disorders – significance and implications in dentistry.....1 class - lymphoproliferative disorders, significance and implications in dentristy.....1 class Results from chapter 4: The student will be familiar with the basic principles of diagnosing, thinking about the differential diagnosis and treatment of patients with hemorrhagic syndrome, anemic syndrome, thrombotic disorders, acute leukemias, myeloproliferative and lymphoproliferative disorders. 5. Rheumatology – 7 classes - rheumatoid arthritis, ankylosing spondylitis, systemic lupus erythematosus.....2 classes - vasculitis.....1 class - systemic sclerosis and dermatomyositis.....2 classes - osteoarthritis, GOUT.....1 class - Behcet disease.....1 class Results from chapter 5: The student will be familiar with the basic principles of diagnosing, thinking about the differential diagnosis and treatment of patients with rheumatological diseases (rheumatoid arthritis, SLE, vasculitis, ankylosing spondylitis, systemic sclerosis, dermatomyositis, osteoarthritis, GOUT, and Behcet disease). 6. Nephrology – 8 classes - Approaching a patient with kidney disease.....1 class - Nephrotic syndrome, acute and rapidly progressive glomerulonephritis…….1 class - Diabetic nephropathy, urinary tract infections.....2 classes - Acute kidney injury and chronic kidney disease.....1 class - Dialysis treatment.....2 classes - Kidney transplant.....1 class Results from chapter 6: The student will be familiar with the basic principles of diagnosing, thinking about the differential diagnosis and treatment of patients with acute and chronic kidney injury, diabetic nephropathy, urinary tract and kidney infections, dialysis treatment, and kidney transplant. 7. Cardiology – 10 classes - heart failure.....1 class - inflammatory diseases of the myocardium and pericardium.....1 class - rheumatic fever, infective endocarditis, and prophylaxis.....1 class - cardiological problems in dentistry.....1 class - congenital and acquired heart defects.....1 class - risk factors.....1 class - emergency conditions in cardiology from the aspect of dentistry....1 - acute coronary syndrome.....1 class - disorders of heart rhythm and conduction.....1 class - antiaggregation and anticoagulation therapy.....1 class Results from chapter 7: The student will be familiar with the basic principles of diagnosing, thinking about the differential diagnosis and treatment of patients with heart failure, acute coronary syndrome, inflammatory diseases of the endocardium, myocardium, and pericardium, congenital heart defects, and cardiac arrhythmias. 8. Pulmonology and Allergology – 8 classes - Respiratory tract infections (acute bronchitis and bronchiolitis) 2 class - Chronic obstructive pulmonary disease - Necrotizing lung infections (bronchiectasis and abscess)...2 classes - Lung tumors.....1 class

<table>
<tr><td></td><td></td><td colspan="3">- Allergic rhinitis and sinusitis.....1 class
- Asthma.....1 class
- Pleural and mediastinal diseases.....1 class
Results from chapter 8: The student will be familiar with the basic principles of diagnosing, thinking about the differential diagnosis and treatment of patients with acute respiratory tract infections, COPD, lung tumors, and allergic diseases.
Total: .....60 classes

Practical teaching-exercises
- From the first chapter 6 classes
- From the second chapter 2 classes
- From the third chapter 7 classes
- From the fourth chapter 4 classes
- From the fifth chapter 4 classes
- From the sixth chapter 7 classes
- From the seventh chapter 8 classes
- From the eighth chapter 7 classes
Total .....45 classes</td></tr>
<tr><td>13</td><td>Interrelation of subjects</td><td colspan="3">Internal medicine is interdisciplinary and related to many other specialties in medicine, such as pathology, pathophysiology, pharmacology, radiodiagnostics, and surgery.</td></tr>
<tr><td>14.</td><td>Detailed description of the teaching and working methods for the subject</td><td colspan="3">Interactive teaching (theoretical), working in small groups (exercises) and other forms set by the joint ECTS criteria.</td></tr>
<tr><td>15.</td><td>Total available time</td><td colspan="3">270 classes</td></tr>
<tr><td rowspan="3">16.</td><td rowspan="3">Forms of teaching activities</td><td>16.1.</td><td>Lectures – theoretical teaching. classes</td><td>60</td></tr>
<tr><td>16.2.</td><td>Exercises – practical teaching at clinics, teamwork: classes</td><td>45</td></tr>
<tr><td>16.3.</td><td>Practice: classes</td><td>/</td></tr>
<tr><td rowspan="3">17.</td><td rowspan="3">Other forms of activities</td><td>17.1.</td><td>Project assignments: classes</td><td>/</td></tr>
<tr><td>17.2.</td><td>Independent assignments: classes</td><td>30</td></tr>
<tr><td>17.3.</td><td>Homework – assignments</td><td>135</td></tr>
<tr><td>18</td><td>Signature requirements</td><td colspan="3">In order to receive a signature, the student must attend theoretical classes and actively participate in practical classes (absence of a maximum of two exercises during one semester is permitted, and attendance of more than 50% of theoretical classes is mandatory).</td></tr>
<tr><td rowspan="4">19</td><td colspan="4">Method of assessment</td></tr>
<tr><td>19.1.</td><td colspan="2">Tests: points</td><td>Continuous knowledge assessment (colloquium – qualification test): one test containing questions from all areas of Internal Medicine.
The minimum passing score is 22, and the maximum is 36 points.</td></tr>
<tr><td>19.2.</td><td colspan="2">Activity and participation in theoretical classes and practical classes: points</td><td>9 points
*Attendance at theoretical classes - from 2 to 4 points
* Attendance at practical classes from 3 to 5 points</td></tr>
<tr><td>19.3.</td><td colspan="2">Final (oral) exam: points</td><td>33-55</td></tr>
<tr><td rowspan="6">20</td><td rowspan="6" colspan="2">Grading criteria (points/grade)</td><td>from 59 points</td><td>5 (five) (F)</td></tr>
<tr><td>60 to 68 points</td><td>6 (six) (E)</td></tr>
<tr><td>69 to 76 points</td><td>7 (seven) (D)</td></tr>
<tr><td>from 77 to 84 points</td><td>8 (eight) (C)</td></tr>
<tr><td>from 85 to 92 points</td><td>9 (nine) (B)</td></tr>
<tr><td>from 93 to 100 points</td><td>10 (ten) (A)</td></tr>
<tr><td>21.</td><td colspan="2">Method of monitoring the quality of teaching</td><td colspan="2">Self-evaluation by students, control of assistants in carrying out practical teaching and assessment of the achieved success of students, as well as the pass rate of students who have passed the course.</td></tr>
</table>

22.	Literature					
	22.1.	Required literature				
		Ord. No.	Author	Title	Publisher	Year
		1.	Genadieva Stavrikj S. editor-in-chief and responsible	Internal Medicine (Department of Internal Medicine, Faculty of Medicine – Skopje)	Vincent graphics, Skopje	2020
		2.	Anthony Gauci et al., editors	Selected Chapters from Harrison's Principles of Internal Medicine	Tabernakul, Skopje	2012
		3.	Lee Goldman, Dennis Osiello	Internal Medicine, Cecil	Tabernakul, Skopje	2012
	22.2.	Additional literature				
		Ord. No.	Author	Title	Publisher	Year