Drogram	Level			Second cycle					
Fiografii	Name of the program			Applied mathematics, Pure mathematics					
	COURSE								
Course title	Partial Differential Equations								
Course code	Semester	Со	urse status		ECI	ſS	Contact hours	(L+AE+LE)	
AMAT 420	Ι	Ma	ndatory cou	rse	8		3+2+0		
Lecturer									
Course Goals	Introduce to students essential properties, and classical methods of solving second-order linear partial differential equations. models based on partial differential equations.								
	After completing the module, the student will be able to: - classify second-order linear partial differential equations								
Learning									
Outcomes	- solve second-order linear partial differential equations;								
COURSE CONTENT									
variables).Hyperbolic Equations (Cauchy Problem for the One-dimensional Wave Equation, The Fourier Method of Separation Variables, The Sturm-Liouville Problem). Elliptic Equations (Dirichlet Problem, The Maximum Principle, The Green Function, The Harmonic Functions), Parabolic Equations (Cauchy Problem, Mixed Type Problem, Heat conduction)									
LITERATURE									
 [2] L. C. Evans, Partial differential equations, AMS, 1998. [3] G. B. Folland, Introduction to partial differential equations, Princeton University Press, 1995. [4] F. John, Partial differential equations, Springer Verlag, 1982. [5] S. Kalabušić, N. Memić, E. Pilav, Parcijalne differencijalne jednačine, PMF, Sarajevo, 2015 [6] J. Rauch, Partial differential equations, Springer Verlag, 1991. [7] M. Renardy, R. C. Rogers, An introduction to partial differential equations, Springer Verlag, 1993. 									
Locturos	45	Tutorial		Ladividual w	n a se	125	Total	200	
Lectures			30	individual we	JIK		1 Otal	200	
		REMARKS							
Criterion		points	points	November or first week of December). Students					
Midterm exams		50	25	altogether write 120 minutes long test. This test is					
Homework assignment		-	-	evaluated by max 50 points. The minimal score of the test is 25 points.					
Project		-	-						
Laboratory assignments		-	-	Final exam: Students who do not reach the midterm					
Final exam		50	30	exam minima	exam minimal score must take the entire course in the			course in the	
Total		100	55	tinal exam. In this case, the final exam is evaluated by max 100 points. The final exam's minimal score is 55 points. Students who reach the midterm exam minimal score take only the part of the final exam that is not covered by the midterm test. In this case, the final exam is evaluated by max 50 points. The minimal score is 30 points.					