Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
MAT101	Single Variable Analysis I	1	5	0	0	5	7

Prerequisites	
Admission Requirements	

Language of Instruction	French	
Course Type	Compulsory	
Course Level	Bachelor Degree	
Objective	To build, with appropriate rigour, the foundations of calculus and along the way to develop the skills to enable us to continue studying mathematics	
Content	Course syllabus : Real Numbers, Sequences, Topology of R, Continuity, Limits	
References	Course book : First Course in Real Analysis, Sterling K.Berberian, Springer	

Theory Topics

Week	Weekly Contents	
1	Properties of reel numbers	
2	Properties of reel numbers	
3	İnfimum- Supremum	
4	İnfimum- Supremum	
5	Midterm Exam	
6	Sequences : Definitions and examples	
7	Sequences : Limits	
8	Sequences : Convergence theorem	
9	Sequences : Convergence theorem	
10	Midterm Exam- Notions of function	
11	Limits and continuous functions : Limits	
12	Limits and continuous functions : Continuity in one point	
13	Limits and continuous functions : Continuity on an interval	
14	Limits and continuous functions : Elemamtary functions	