

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
MAT102	Single Variable Analysis II	2	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 : Intermediate Value Theorem, Limit, Continuity, Trigonometric functions, Asymptotes, Differentiation, Mean Value Theorem, Rolle Theorem, L'Hospital Rule, Graphs of functions, Hyperbolic functions, Riemann integral- Darboux theorem, Area and volume calculation, Improper integral.						
References	Course book : First Course in Real Analysis, Sterling K.Berberian, Springer						

Theory Topics

Week	Weekly Contents
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