Course Title	**Calculus 2**				
Course Code	**CSM109**				
Course Type	**Compulsory**				
Level	BSc/1st Cycle				
Year / Semester	1st /2nd				
Teacher's Name	Dimitris Galiatsatos				
ECTS	5	**Lectures / week**	3 hours	**Laboratories / week**	-
Course Purpose and Objectives	This lesson provides a good knowledge of the basic principles of mathematical calculus, which is a powerful mathematical tool in engineering and science.				
Learning Outcomes	Upon successful completion of the course, students will be able to: • Understand elementary concepts of complex numbers • Generate functions of many variables • Manage vectors • Produce vector fields • Calculate multiple integrals • Understand the basic theorems of vector calculus (Theories Green, Gauss and Stokes) • Solve differential equations				
Prerequisites	CSM103	**Required**		-	
Course Content	Enter the complex numbers. Functions of many variables. Limits. Continuity. Derivative (Partial and Chain, using Taylor Expense, Vector Analysis, Scale and Vector Derivative Derivation). Complicated functions. Completions. Multiple and Rectangular and superficial. Differential equations and some basic theorems of vector calculus such as Green, Gauss and Stokes. Elements of differential equations.				
Teaching Methodology	Lectures 42 hours				
Bibliography	Weir, Hass, Giordano., THOMAS CALCULUS Pearson-Addison Wesley				

	Antony Croft, Robert Davison, Martin Heagreaves, James Flinnt. Engineering Mathematics. A Foundation for Electronic, Electrical, Communications and Systems Engineers, Pearson 5th Ed. 2017 ISBN : 978-1-292-14667-6
Assessment	Final Exam 100%
Language	English