

<b>Course Title</b>	<b>Calculus 1</b>				
<b>Course Code</b>	<b>CSM103</b>				
<b>Course Type</b>	<b>Compulsory</b>				
<b>Level</b>	BSc/1st Cycle				
<b>Year / Semester</b>	1 <sup>st</sup> /1 <sup>st</sup>				
<b>Teacher's Name</b>	Dimitrios Galiatsatos				
<b>ECTS</b>	5	<b>Lectures / week</b>	3 hours	<b>Laboratories / week</b>	-
<b>Course Purpose and Objectives</b>	This lesson provides a good knowledge of the basic principles of mathematical calculus, which is a powerful mathematical tool in engineering and science.				
<b>Learning Outcomes</b>	<p>Upon successful completion of the course, students will be able to:</p> <ul style="list-style-type: none"> <li>• Examine the convergence of sequences, rows and real numbers dynamics</li> <li>• Calculate infinite sum values</li> <li>• Fully study functions of a variable (real)</li> <li>• Calculate the Derivative of Derivative Functions</li> <li>• Determine tangential lines in flat curves described in various ways</li> <li>• Calculate integrals (generally and vaguely)</li> <li>• Calculate flatbed areas and flat curve lengths</li> <li>• Reach polynomial functions</li> </ul>				
<b>Prerequisites</b>	-	<b>Required</b>	-		
<b>Course Content</b>	<p>Functions of a variable.  Sequences, Rows. Limit of function. Continue to function.  Derivatization.  Partitioning applications.  Taylor Growth, Indefinite integral.  Definite integral,  Embedded applications.</p>				
<b>Teaching Methodology</b>	Lectures 42 hours				
<b>Bibliography</b>	R. L. Finney, M. D. Weir, F. R. Giordano, Calculus, Pearson, 2018 Antony Croft, Robert Davison, Martin Heagreaves, James Flinnt. Engineering Mathematics. A Foundation for Electronic, Electrical,				

	Communications and Systems Engineers, Pearson 5 <sup>th</sup> Ed. 2017 ISBN : 978-1-292-14667-6
<b>Assessment</b>	Final Exam 100%
<b>Language</b>	English