Course Title: Mathematical Physical Models	**Number of Units:** 1
SSD :MAT/07	**CFU:** 9
Course aims: The course is an introduction to mathematical modeling of physical processes. The course presents Lagrange model of Mechanics, Tensor Calculus and elements of Continuum Mechanics.	
Course Description Degree of Freedom. D'Alembert Principle. Lagrange Equations. Hamilton. Equations. Variational Principles. Vector Spaces. Affine Euclidean Point Spaces. Tensor Algebra. Curvilinear Coordinates in Euclidean Spaces. Elements of Continuum Classical Mechanics.	
Assumed Background: Calculus, Elementary Mechanics.	
Assessment methods: Oral examination	