

Title of the course: Mathematics I.	NEPTUN-code: NMXAN1EBNE	Weekly teaching hours: $l+cw+lb$ 3+3+0	Credit: 6 Exam type: e examination
Course leader: Aurél Galántai PhD	Position: professor	Required preliminary knowledge: -	
Curriculum			
The goals of this course are: introduction of basic concepts of the real line, the complex plane and the three-dimensional space; development of differential and integral calculus with the help of the concepts of sequences, real functions, convergence and continuity to the level of practical applicability in further engineering / mechanical / physical studies. Introduction to the application of program MatLab.			
Professional competencies:			
<ul style="list-style-type: none"> – The student knows the general and specific mathematical principles, rules, correspondences and methods used in light industry engineering. – Familiar with the learning methods and problem solving technics used in light industry engineering. – He/she is able to demonstrate clearly the mathematical results, principles and their consequences. 			
Literature			
1. Thomas – Weir – Hass: Thomas' Calculus, 13e, Pearson, 2013.			
2. Anton – Bivens – Davis: Calculus, 10e, Wiley, 2012.			
3. Anton – Rorres: Elementary Linear Algebra, 11e, Wiley, 2013.			
Comment:			