

<b>Field:</b> IT
<b>Module title:</b> Mathematics I (B.2)
<b>Preliminary conditions:</b> none
<b>Education aims:</b> Familiarize students with basics of advance calculus of function of one variable and basics of linear algebra.
<b>Education outcomes:</b> The student has a basic knowledge of the theory of real functions and linear algebra necessary for the description and analysis of mechanical systems and processes. The student can use mathematical apparatus for mechanical issues and technological processes occurring in the area of production engineering.
<b>Module type and contents:</b> Sequences of numbers and their limits. Limit and continuity of a function of one variable. Differential calculus of functions of one variable. Integral calculus: indefinite and definite integral. Matrices, determinants, systems of linear equations. Complex numbers.
<b>Educational methods:</b> Lessons, classes.
<b>Assessment methods:</b> Examination.
<b>ECTS credits:</b> 6
<b>Students workload (hs.):</b> 150
<b>Form Number of hours:</b> 30
<b>Author of a module:</b> dr Karol Selwat
<b>Module language:</b> english