**The name of the academic discipline:**

**“Differential equations”**

|  |  |
| --- | --- |
| **Specialty code and name** | 1-02 05 01 Mathematics and Informatics |
| **Year of study** | 4 |
| **Semester of study** | 7 |
| **Number of in-class academic hours:** | 64 |
| **Lectures****Seminar classes** **Practical classes****Laboratory classes** | 32 |
| - |
| 32 |
| - |
| **Form of the current assessment (*credit/ graded credit /exam*)** | exam |
| **Number of credit points** | 3 |
| **Competences** | Apply methods for solving problems of differential and integral calculus, differential equations, and the study of series. |
| **Summary of the academic discipline:**First order differential equations. Basic concepts. Methods for solving first order differential equations. Theorem of existence and uniqueness of a solution to a first order differential equation. Higher order differential equations. Basic concepts. Linear equations of the nth order. Linear equation of the second order with constant coefficients. Systems of differential equations. |