**The name of the academic discipline:**

**“Mathematical Analysis”**

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| **Specialty code and name** | 6-05-0113-04 Physical and Mathematical Education (Mathematics and Informatics) |
| **Year of study** | 1, 2 |
| **Semester of study** | 1, 2, 3 |
| **Number of in-class academic hours:** | 150 |
| **Lectures****Seminar classes** **Practical classes****Laboratory classes** | 56 |
| - |
| 94 |
| - |
| **Form of the current assessment (*credit/ graded credit /exam*)** | credit, credit, exam |
| **Number of credit points** | 9 |
| **Competences** | UC-1. Have a basic understanding of research activities, search, analyze, and synthesize information. BPC-9. Have knowledge of classical sections of mathematical disciplines to carry out educational and research activities. SC-4. Have a knowledge of classical sections of mathematical disciplines to carry out educational and research activities. |
| **Summary of the academic discipline:**Sets. Functions. Limit of a numerical sequence in R. Limit of a function of one variable. Continuous functions and their properties. Derivative and differential of a function. Fundamental theorems of differential calculus. Applications of differential calculus. Indefinite integral. Definite integral. Improper integrals. |