

Study Program: Informatics			
Type and level of studies: Bachelor studies			
Course name: Methodology of teaching informatics			
Lecturer: Denić M. Nebojša			
Status: Compulsory			
ECTS:10			
Attendance Prerequisites:			
Course aims Preparing students for improving the pedagogical, psychological, didactic and methodical education in the future.			
Course outcome The students are able to successfully apply their knowledge in performing certain professional activities.			
Course content Introduction. Stages in the development of the human community. Technological development in general and the development of computer technology-parallels. Technological advancement and their effect on labour and people's lives through time. New technologies and automatic data processing methodology. Informatics in business automation today, and before as automation in production processes. Informatics as a key point in the development of a working organization. Informatics and information technology. Main computer-science subfields. Information Technology. Cybernetics. Data and information. Importance and purpose of data processing. The importance of time in processing data (information). Computational means according to the physical principles underlying the presentation of data and the execution of operations via computational tools. Types of data processing. Manual processing. Mechanographic processing. Automatic processing - five generations of computers. Three Data Transformations in Automatic Data Processing. Domains of computer application. Classification of computers and evaluation of their performance. Programming languages. Software sharing. Information systems. Data organizing. Organizing files. Databases. Informatics education. Levels of education in the field of informatics. Key points in education. Activities aimed at a successful realization of education in the field of informatics. The concept of information education in high school. Tutorial, software, specialized classroom, methodology. Additional tasks for the IT teacher. A look at the future.			
Literature 1. Методика информатичког образовања, Д.Бранковић, Д.П.Мандић, Филозофски факултет, Бања Лука, "Mediagraf"			
Number of active classes			Other classes
Lectures: 4	Practical classes: 3	Other forms of teaching:	
Teaching methods Lectures, consultations, term tests, hospitation.			
Assessment (maximum 100 points)			
Course assignments	points	Final exam	points
activity during lectures	10	written exam	
practical classes	40	oral exam	30
term test(s)	20	
seminar(s)			
Total	70		30