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|---|---------------------|----------------------------------|--------|
| <b>Study program:</b> Business informatics and e-business   |                     |                                  |        |
| <b>Course name:</b> Programming   |                     |                                  |        |
| <b>Professor:</b> Sakal M. Marton, PhD  |                     |                                  |        |
| <b>Subject status:</b> compulsory course  |                     |                                  |        |
| <b>ECTS:</b> 6  |                     |                                  |        |
| <b>Requirement:</b> no requirements   |                     |                                  |        |
| <b>Aim of the course</b><br>Mastering the basics of structural programming and mastering the basics of event programming.   |                     |                                  |        |
| <b>Course outcomes</b><br>Students acquire systematized knowledge on structural programming and managed event programming through development of simple, business oriented apps in a selected program language.   |                     |                                  |        |
| <b>Content of the course</b><br><i>Theoretical lectures</i><br>Algorithms of line structure. Algorithms of branch structure. Algorithms of cyclic structure. Series. Typical programming procedures. Strings. Subprograms. Areas of visibility and validity of variables. Sorting algorithms. Recursion. Files. Event programming. Components properties. Component methods. Component events. Simple databases.<br><i>Practical course work</i><br>Preparation of Console apps and Windows Forms apps via Visual Studio. |                     |                                  |        |
| <b>Literature</b> <ul style="list-style-type: none"> <li>• Сакал, М., Трнинић, Ј. Раковић, Ј. (2012), Програмирање - Збирка задатака, Економски факултет, Суботица</li> <li>• Трнинић Ј. (1998): Методе и технике програмирања, Економски факултет, Суботица (изабрана поглавља)</li> </ul>   |                     |                                  |        |
| <b>Total number of active teaching classes</b>  | <b>Lectures: 30</b> | <b>Practical course work: 30</b> |        |
| <b>Teaching methods</b><br>Frontal teaching, individual work, pair work, group work.  |                     |                                  |        |
| <b>Evaluation (maximum points 100)</b>  |                     |                                  |        |
| <b>Pre-exam activities</b>  | Points              | <b>Final exam</b>                | Points |
| Active participation in lecture classes   | 5                   | Written exam                     | 25     |
| Active participation in practical course work   | 5                   | Oral exam                        | 20     |
| Colloquium 1  | 30                  | .....                            |        |
| Colloquium 2  | /                   |                                  |        |
| Term papers   | 15                  |                                  |        |