| Óbudai University Donát Bánki Faculty of Mechanical and Safety Engineering | | | | | | Institute of Mechatronics and Vehicle Engineering | | | |
|---|---|---------------------------------------|--|--|-----|--|--|--|--|
| Course name and Neptun-code: Informatics II. BGRIA2ENND, BGRIA2KTNC Credits: 3 | | | | | | | | | |
| <i>Full time, 2nd Semester of the Academic year 2016/17.</i> | | | | | | | | | |
| Faculties in which the subject is taught: BSc in Mechatronics | | | | | | | | | |
| Supervised by: Tóthné Dr. Laufer Edit | | | | | | | | | |
| Prerequisites | | * | | | | formatics I. BGRIA1ENND | | | |
| Lessons per week: | | Theory: 2 Practice (in Auditorium): 0 | | | : 0 | Lab: 0Consultation: | | | |
| Exam type (s,v,f): | | v gran gran i | | | | | | | |
| The Syllabus | | | | | | | | | |
| Aim: Developing algorithmic thinking, introducing the basic tools of programming, which are needed during angineering work. The acquisition of basic electrithms and deta structures | | | | | | | | | |
| engineering work. The acquisition of basic algorithms and data structures. Schedule | | | | | | | | | |
| Weeks | | | | | | | | | |
| | Topics The aim and tools of computer programming. Structured programming. Event-driven programming. | | | | | | | | |
| 1. 2. | Basic data structures and their operations. (integers, real, boolean). Conditional statement. | | | | | | | | |
| 3. | Loops. Array data structure. Graphics. | | | | | | | | |
| 4. | Elementary programming items. Sort and search algorithms. | | | | | | | | |
| <u>4.</u> 5. | Object oriented programming (inheritance, encapsulation) | | | | | | | | |
| <u> </u> | Object oriented programming (ninertance, encapsulation) Object oriented programming (polymorphism, static and virtual methods) | | | | | | | | |
| 7. | Test paper I. | | | | | | | | |
| 8. | Character and string type. | | | | | | | | |
| 9. | File management. | | | | | | | | |
| <u> </u> | Holiday. | | | | | | | | |
| 10. | Relational database management. SQL basics. | | | | | | | | |
| 11. | National day. | | | | | | | | |
| 12. | Test paper II. | | | | | | | | |
| 13. | Test paper n. Test paper retake | | | | | | | | |
| Requirements | | | | | | | | | |
| Wee | eks | Test papers | | | | | | | |
| 8 ' | | Test paper I. | | | | | | | |
| | | Test paper II. | | | | | | | |
| The evaluation criterias | | | | | | | | | |
| The participation is governed by TVSZ III.23.§ (1)-(4). | | | | | | | | | |
| All main areas of the course are evaluated by test papers. The course is to be considered successfully executed and a signature is obtained if and only if both test papers are written. | | | | | | | | | |
| Based on the Study Regulations III.6.(4), the student receive offered grade if he/she has written both test papers with grades higher than 3. | | | | | | | | | |
| All matters which are not covered in this document, the Study and Examination Rules and the provisions of the Study Regulations, valid at Óbuda University, prevails. | | | | | | | | | |
| The semester closing method (method of examination: written, oral, testing, etc.). | | | | | | | | | |
| Written exam | | | | | | | | | |
| Literature: 1 | ecture notes | | | | | | | | |
| Quality Assu | irance: | | | | | | | | |