**General information**

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| Course title: | **COMPUTER SCIENCE II** |
| ISVU[[1]](#footnote-1) course code: | 38519 / UG203 |
| Studies in which the course is taught: | STUDY OF HOSPITALITY MANAGEMENT - full time study |
| Course Instructor: | Ph.D Adam Stančić, senior lecturer |
| Course Assistant: | Suzana Šnajdar, B.Sc. |
| ECTS credits: | 3.0 |
| Semester of the course execution: | 1. (winter sem.) |
| Academic year: | 2021 / 2022 |
| Exam prerequisites: | - - - |
| Lectures are given in a foreign language: | English |
| Aims: | Introducing students to basic concepts in the field of databases, remote computer access, the concept of virtualization and basic concepts related to information systems. Through the acquired knowledge and conducted exercises, the student should be able to work with spreadsheets and create and edit a presentation on a stand-alone computer, in a network or corporate environment and the Internet. |

**Course**

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| Course structure | Number of contact hours per week: | Number of contact hours per semester: | Student’s requirements by type of teaching: |
| Lectures: | 1 | 15 | attendance 80% |
| Tutorials: | 2 | 30 | attendance 80% |
| Practical (lab) sessions: |  |  |  |
| Seminars: |  |  |  |
| Field work: |  |  |  |
| Other: |  |  |  |
| TOTAL: | 3 | 45 |  |

**Monitoring of students' work, knowledge evaluation and learning outcomes**

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| Formation of the grade during the implementation of teaching:  (Define from minimum 5 to maximum 10 learning outcomes) | **LEARNING OUTCOMES**  (upon completion of the course the student should be able to:) | **FACTORS AFFECTING THE GRADE** (e.g. term paper, practical work, presentation, ...) | **MAXIMUM NUMBER OF POINTS PER FACTOR** |
| **I 1:** Define basic terms from the field of databases | Colloquium I | Colloquium I  40 points  Colloquium II  40 points  Seminar  20 points |
| **I 2:** Identify the benefits of different procedures for accessing remote computing resources | Colloquium I |
| **I 3:** Apply available tools to work with spreadsheets and presentations | Colloquium I |
| **I 4:** Categorize different computer resource virtualization solutions | Colloquium II |
| **I 5:** Formulate the need to implement a business information system | Colloquium II |
| **I 6:** Assess the extent to which a business information system monitors the requirements of its users | Colloquium II |
| **I 7: - - -** |  |
| **I 8: - - -** |  |
| **I 9: - - -** |  |
| **I 10: - - -** |  |
| Alternative formation of the grade  ( I 1 – I 10) | **or alternative formation of the grade: I 1 – I 10** | | TOTAL: 100 points |
| Students' competencies | The student will understand how the database is organized and formed and how the data is entered, corrected, deleted and retrieved according to the queries. Furthermore, the student will be introduced to different methods of accessing a remote computer in order to maintain or use its resources. They will understand what virtualization of information resources is, how and why it is carried out and will be able to use them independently. They will be introduced to the basic concepts, reasons and advantages of building, organizing and operating a business information system as part of a business system. | | |

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| Prerequisites for course approval (lecturer’s signature): | Attendance at classes and laboratory exercises min. 80% |
| Prerequisites for taking exams: | Signature + term paper + passed exercises (office applications + Internet) min. 75% |
| Grading scale: | (According to the Regulations on student assessment of Karlovac University of Applied Sciences, Article 9, Paragraph 5) 90-100 - excellent (5) (A) 80 to 89.9 - very good (4) (B) 65 to 79.9 - good (3) (C) 60 to 64.9 - sufficient (2) (D) 50 to 59.9 - sufficient (2) (E) 0 to 49.9 – fail (1) (F)  Students are graded during class, what forms 70% of final exam. Students who achieve 50% (35 points) and more are allowed to take the final exam. The score on final exam makes 30% of the final grade. |

**ECTS structure**

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| ECTS credits allocated to the course reflect the total burden to the student during adoption of the course content. Total contact hours, relative gravity of the content, effort required for exam preparation, as well as, every other possible burden are taken in account: | | | | | |
| **Attendance (active participation)** | **Term paper** | **Composition** | **Presentation** | **Continuous assessment and evaluation** | **Practical work** |
| 0,5 | 1,0 |  |  |  |  |
| **Independent work** | **Project** | **Written exam** | **Oral exam** | **Other** | |
|  |  | **1,5** |  |  | |

**Review of topics/units per week associated with learning outcomes**

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| Week | Lectures topics/units and learning outcomes: | Tutorials topics/units and learning outcomes: |
| 1. | Basic concepts in the field of databases **I 1** | Basic concepts in the field of databases **I 1** |
| 2. | Database components **I 1** | Database components **I 1** |
| 3. | Database queries **I 1** | Database queries **I 1** |
| 4. | Complex queries in database **I 1** | Complex queries in database **I 1** |
| 5. | Remote Computer Access **I 2** | Remote Computer Access I 2 |
| 6. | Working with applications on a remote computer **I 2** | Working with applications on a remote computer **I 2** |
| 7. | Basic concepts in the field of virtualization **I 4** | Basic concepts in the field of virtualization **I 4** |
| 8. | Types of computer resource virtualization **I 4** | Types of computer resource virtualization **I 4** |
| 9. | Cloud business model **I 4** | Cloud business model **I 4** |
| 10. | Information systems - basic concepts **I 5** | Information systems - basic concepts **I 5** |
| 11. | Information system organization 1 **I 5** | Information system organization 1 **I 5** |
| 12. | Information system organization 2 **I 5** | Information system organization 2 **I 5** |
| 13. | Creating information systems **I 6** | Creating information systems **I 6** |
| 14. | User requirements **I 6** | User requirements **I 6** |
| 15. | Process and data model **I 6** | Process and data model **I 6** |

**References**

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| REFERENCES (compulsory/additional): |
| Compulsory:   * V. Šimović, F. Maletić, W. Afrić: OSNOVE INFORMATIKE – uvod, Zagreb 2010 * Panian, Ž. et. al.: Poslovni informacijski sustavi, Element d.o.o., Zagreb, 2010 * Neautorizirana skripta i prezentacije za praćenje predavanja (autor: Adam Stančić)   Additional:   * On-line izvori podataka koji se odnose na prezentiranu cjelinu * Klasić, K., Klarin, K.: INFORMACIJSKI SUSTAVI - skripta, Veleučilište u Splitu, odjel računarstva, Split, 2003. |
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**Exams for the academic year: \_\_\_\_\_\_2021./\_\_\_\_\_2022.**

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| Exam dates: | According to the schedule of exams for academic year published on the web- site |

**Contact information**

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| 1. Course Instructor/Lecturer: | Ph.D Adam Stančić, senior lecturer |
| e-mail: | adam.stancic@vuka.hr |
| Office hours / Consultations: | Tue, 10:00, Meštrovićeva 10, 1st floor, room no. 109 |
| 2. Course Instructor/Lecturer: | Suzana Šnajdar, B.Sc. |
| e-mail: | ztk.karlovac@ka.t-com.hr |
| Office hours / Consultations: | Tue 16:00 - 17:30, Comp. cabinet 1 |

1. ISVU – Information System of Higher Education Institutions in Croatia [↑](#footnote-ref-1)