**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical and Electrical Engineering Faculty |
| Field of study | Computers and Information Technology |
| Level | Bachelor |
| Program of study | Computers Engineering |

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| Course | **Elements of mobile informatics** |
| Code | 2CC7OS47  |
| Year of study (semester) | III (I) |
| Number of hours | 42 |
| Number of credits | 3 |
| Professor | Lecturer eng. Simona Rîurean, Ph.D. |

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| **No.** | **Topic** |
| 1 | Characteristics of mobile applications. History of mobile application frameworks. |
| 2 | Overview of mobile application development languages: Objective-C and Java |
| 3 | Application models of mobile app. frameworks. User-interface design for mobile app. |
| 4 | Managing application data. Integrating with cloud services |
| 5 | Integrating networking, the OS and hardware into mobile-applications |
| 6 | Addressing enterprise requirements in mobile applications: performance, scalability, modifiability, availability, and security |
| 7 | Testing methodologies for mobile applications. Publishing, deployment, maintenance and management |