

Content

| Course Code | Course Name | Semester | Theory | Practice | Lab | Credit | ECTS |
|-------------|--------------------|----------|--------|----------|-----|--------|------|
| COM204 | Mobile Programming | 4 | 2 | 2 | 0 | 2 | 3 |

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| Prerequisites | |
| Admission Requirements | |

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| Language of Instruction | Turkish |
| Course Type | Compulsory |
| Course Level | Bachelor Degree |
| Objective | The purpose of this course is to enable students to acquire knowledge and skills in modern methods of designing and developing mobile applications, especially programming skills to develop applications for Android-based mobile systems |
| Content | <ol style="list-style-type: none">1. Introduction to Mobile Computing and Technologies2. Mobile System Design3. General Structure of Android Operating System4. Fundamentals of Android apps and life cycle5. Access to Web services and web services - XML technologies6. Intent concept and common perceptions7. SMS, network and internet access via Android8. Access permissions, Service and Alarm concepts9. Background processing and Thread concept10. Maps and location based services11. Introduction to Swift programming language12. Swift: xcode playground examples13. Swift: graphical interface elements14. Swift: simple network communication with SWIFT |
| References | Programming Android: Java Programming for the New Generation of Mobile Devices, O'Reilly Media; Second Edition edition |

Theory Topics

| Week | Weekly Contents |
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