

**Content**

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

Prerequisites	
Admission Requirements	

Language of Instruction	Turkish
Course Type	Elective
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"><li>1. Introduction to Mobile Computing and Technologies</li><li>2. Mobile System Design</li><li>3. General Structure of Android Operating System</li><li>4. Fundamentals of Android apps and life cycle</li><li>5. Access to Web services and web services - XML technologies</li><li>6. Intent concept and common perceptions</li><li>7. SMS, network and internete access via Android</li><li>8. Access permissions, Service and Alarm concepts</li><li>9. Background processing and Thread concept</li><li>10. Maps and location based services</li><li>11. Introduction to Swift programming language</li><li>12. Swift: xcode playground examples</li><li>13. Swift: graphical interface elements</li><li>14. Swift: simple network communication with SWIFT</li></ol>
References	Programming Android: Java Programming for the New Generation of Mobile Devices, O'Reilly Media; Second Edition edition

**Theory Topics**

Week	Weekly Contents