**Content**

| Course Code | Course Name | Semester | Theory | Practice | Lab | Credit | ECTS |
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| INF243-B | Object Oriented Programming | 4 | 2 | 0 | 2 | 3 | 5 |

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| Prerequisites | INF114 |
| Admission Requirements | INF114 |

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| Language of Instruction | |
| Course Type | Compulsory |
| Course Level | Bachelor Degree |
| Objective | Object-oriented programming begins in this course. Usage of basic objects such as Button, TextField, TextArea, Choice, RadioButton etc., Java console programming, solutions of some algorithmic problems, Java application programming, class-object-method relations, inheritance, final and static concepts and usages, Topics such as upcasting, polymorphism, downcasting, abstract classes and methods, interface etc...the basic philosophy of object-oriented programming constitute the aim of this course. |
| Content | Week 1 Console programming in Java<br>Week 2 Application programming in Java<br>Week 3 Introduction to interface controls such as buttons, text fields<br>Week 4 Keyboard control in Java<br>Week 5 Mouse control in Java<br>Week 6 Visual programming<br>Week 7 Moving objects, game programming 1,2<br>Week 8 Midterm Exam<br>Week 9 Class, object and method relations<br>Week 10 Application programming in Java<br>Week 11 Calculator etc... examples<br>Week 12Final, static concepts and examples<br>Week 13 Upcasting, downcasting and polymorphism<br>Week 14 Abstract classes and methods, interface classes |
| References | 1. Java Programlama Dili ve Yazılım Tasarımı, Altuğ B. Altıntaş, Papatya Yayıncılık ve Eğitim, 2014.<br>2. JAVA SE 7, Herbert Schildt, Alfa Yayınları, 2012.<br>3. Java Uygulamaları, David Flanagan, Pusula Yayıncılık ve İletişim, 2004.<br>4. Java ile Programlama ve Veri Yapıları, Bülent Çobanoğlu, Pusula Yayıncılık ve İletişim, 2013.<br>5. Java, Numan Pekgöz, Pusula Yayıncılık ve İletişim, 2003. |

**Theory Topics**

| Week | Weekly Contents |
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