Advanced Java Programming

Description

The purpose of the course is to acquire knowledge on, and enhance competence in, Java Standard Edition, beyond the fundamental language concepts and standard libraries: Generic definitions Annotations Reflection Multithreading Memory management, garbage collection Input-output, serialization Database management and persistence: JDBC and the fundamentals of JPA Network programming: TCP and UDP; HTTP Program design principles and best practices Exceptions, assertions Logging and testing

Literature

- James Gosling, Bill Joy, Guy Steele, Gilad Bracha. The Java Language Specification, Third Edition. Addison-Wesley, 2005. ISBN 0-321-24678-0
- Linda DeMichiel, Michael Keith. JSR 220: Enterprise JavaBeans, Version 3.0, Java Persistence API. Sun Microsystems, Inc., 2006.