

## Fundamentals of Java Enterprise – JEE

**Length:** 65 hours

**Required facilities:** VGA projector, white board, one workstation (per two programmers)

**Who can participate:** Java programmers who want to enter or enlarge their knowledge about Java Enterprise

**Prerequisites:** Java standard edition, basics of object oriented programming, basics of UML, basics of using ANT and Eclipse.

**Course objectives:** understand Java Enterprise standard, related technologies, their place, role, how they interact and are used

**Cursuri conexe:** Fundamentals of Java, Object oriented programming, Fundamentals of UML, Design Patterns, Java Enterprise design patterns

**Attendees' evaluation:** optional, during the training and/or a final test

### Bibliography:

Beginning J2EE 1.4: From Novice to Professional  
by [James L. Weaver](#), [Kevin Mukhar](#), [James P. Crume](#)

Beginning Hibernate: From Novice to Professional  
by [Dave Minter](#), [Jeff Linwood](#)

JSP 2.0: The Complete Reference  
by [Phillip Hanna](#)

JSP Tag Libraries  
by [Gal Shachor](#), [Adam Chace](#), [Magnus Rydin](#)

Programming Jakarta Struts  
by Chuck Cavaness

**Description:** the JEE standard is presented, architecture, its supporting tools and products. It is used one application server, usually JBoss.

There are presented common techniques, typical designs, options, how JEE applications are designed, developed, tested and deployed.

The theory is consolidated by working examples, by solving concrete problems.

### Contents:

| Subject                            | Estimation (hours) |
|------------------------------------|--------------------|
| 1. Introducere in tehnologiile JEE | 1                  |
| 2. Eclipse, ANT                    | 2                  |
| 3. Servlets                        | 3                  |
| 4. JSP                             | 6                  |
| 5. Taglibs                         | 4                  |
| 6. HTML                            | 3                  |
| 7. Struts                          | 8                  |
| 8. EJBs                            | 10                 |
| 9. Security                        | 3                  |
| 10. Transaction                    | 3                  |
| 11. JMS                            | 4                  |
| 12. Hibernate                      | 8                  |
| 13. JMX                            | 2                  |
| 14. Web Services                   | 6                  |
| 15. Commons-logging                | 2                  |