## **Unix System Administration**

- 1. Course number and name: 020ADUES3 Unix System Administration
- 2. Credits and contact hours: 4 ECTS credits, 2x1:15 contact hours
- 3. Name(s) of instructor(s) or course coordinator(s): Roua El Chamaa
- **4. Instructional materials:** lab experiments; slides; in-class problems
- 5. Specific course information
  - a. Catalog description:

Unix fundamentals - Shell and basic commands - File system - User management Text editors - Shell scripting - Processes - Permissions - System configuration - Periodic tasks - Network configuration - System security

- b. Prerequisites: None
- **c.** Required for CCE students
- 6. Educational objectives for the course
  - a. Specific outcomes of instruction:
    - Understand how UNIX-based systems operate.
    - Install a Linux operating system.
    - Use and administer a Linux operation system.
    - Produce and debug scripts: text processing with AWK.
    - Manage network services.
    - Secure a system and a network.
  - b. PI addressed by the course:

PI	1.1	1.3	2.3	7.1
Covered	X	X	X	X
Assessed	X	X	X	

## 7. Topics and approximate lecture hours

- Introduction to UNIX and Linux (1 lecture)
- Install a Linux operating system, use of basic commands (3 lectures)
- File management (2 lectures)
- Access rights (1 lecture)
- Text editors (3 lectures)
- Lab1: File management, access rights, text editors (2 sessions)
- Shell scripting (3 lectures)
- User administration (2 lectures)
- Process management (1 lecture)

- Network administration (4 lectures)
- Lab2: Shell scripting, user administration, network administration (2 sessions)