

| | | |
|--|----------------|----------------|
| COURSE: Programming | | |
| DEGREE: Bachelor in Sound and Image Engineering | YEAR: 1 | TERM: 1 |

| WEEKLY PLANNING | | | | | | | | | |
|-----------------|---------|--|-----------------|----------|---|---|---|-------------|-------------------------------|
| WEEK | SESSION | DESCRIPTION | GROUPS (mark X) | | SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room) | Indicate YES/NO If the session needs 2 teachers | WEEKLY PROGRAMMING FOR STUDENT | | |
| | | | LECTURES | SEMINARS | | | DESCRIPTION | CLASS HOURS | HOMEWORK HOURS (Max. 7h week) |
| 1 | 1 | (Theory) Introduction Foundations of programming: computer architecture | X | | | NO | Configure the programming environment in the personal computer <i>Video of environment configuration</i> | 1,66 | 6,5 |
| | 2 | (Laboratory) Programming environment: configuration | | X | Computer classroom | NO | | 1,66 | |
| 2 | 3 | (Theory) Foundations of programming: the concept of algorithm and exercises | X | | | NO | Compile and execute the examples <i>Videos of algorithms, Java basics and data types</i> | 1,66 | 6,5 |
| | 4 | (Laboratory) Programming environment: configuration | | X | Computer classroom | NO | | 1,66 | |
| 3 | 5 | (Theory) Exercises on algorithms Java syntax: basics of the language • The Java class: concept and syntax | X | | | NO | Finalize programming exercises on data representation <i>One exercise evaluated individually</i> | 1,66 | 6,5 |
| | 6 | (Laboratory) Exercises on data representation | | X | Computer classroom | NO | | 1,66 | |
| 4 | 7 | (Theory) Exercises on algorithms | X | | | NO | Finalize programming exercises on data types and operators | 1,66 | 6,5 |

| | | | | | | | | | |
|----|----|--|---|---|--------------------|----|---|------|-----|
| | | Java syntax: basics of the language • Primitive data types, operators, output, Math | | | | | <i>One exercise evaluated individually and cross-evaluation</i> | | |
| | 8 | (Laboratory) Exercises on programming: data types and operators | | X | Computer classroom | NO | | 1,66 | |
| 5 | 9 | (Theory) Java syntax: standard classes | X | | | NO | Finalize programming exercises on strings of characters | 1,66 | 6,5 |
| | 10 | (Laboratory) Exercises on programming: strings of characters | | X | Computer classroom | NO | <i>Videos of conditional statements and looping statements</i> <i>Cross-evaluation and e-learning test</i> | 1,66 | |
| 6 | 11 | (Theory) Java syntax: flow control Exercises on algorithms | X | | | NO | Start programming exercises on loop sentences | 1,66 | 6,5 |
| | 12 | (Laboratory) Exercises on programming: flow control | | X | Computer classroom | NO | <i>One exercise evaluated individually</i> | 1,66 | |
| 7 | 13 | (Theory) Java syntax: flow control | X | | | NO | Finalize programming exercises on loop sentences | 1,66 | 6,5 |
| | 14 | (Laboratory) Exercises on programming: flow control | | X | Computer classroom | NO | <i>One exercise evaluated individually and cross-evaluation</i> | 1,66 | |
| 8 | 15 | (Theory) Java syntax: flow control | X | | | NO | Partial exam in class: control flow | 1,66 | 6,5 |
| | 16 | (Laboratory) Exam in class | | X | Computer classroom | SI | <i>Cross-evaluation and e-learning test</i> | 1,66 | |
| 9 | 17 | (Theory) Java syntax: arrays Exercises on programming: arrays | X | | | NO | Start programming exercises on arrays | 1,66 | 6,5 |
| | 18 | (Laboratory) Exercises on programming: arrays | | X | Computer classroom | NO | <i>Videos of arrays and functions</i> | 1,66 | |
| 10 | 19 | (Theory) Exercises on programming: arrays | X | | | NO | Finalize programming exercises on arrays | 1,66 | 6,5 |
| | 20 | (Laboratory) Exercises on programming: arrays | | X | Computer classroom | NO | <i>One exercise evaluated individually</i> | 1,66 | |
| 11 | 21 | (Theory) Exercises on programming: all | X | | | NO | Partial exam in class: arrays | 1,66 | 6,5 |
| | 22 | (Laboratory) Final Project: introduction | | X | Computer classroom | SI | <i>One exercise evaluated individually and cross-evaluation</i> | 1,66 | |
| 12 | 23 | (Theory) Java syntax: functions Exercises on programming: all | X | | | NO | Start with control methods | 1,66 | 6,5 |
| | 24 | (Laboratory) Final project: definition of control methods | | X | Computer classroom | NO | <i>Cross-evaluation and e-learning test</i> | 1,66 | |

| | | | | | | | | | |
|---|----|---|---|---|--------------------|----|--------------------------------------|------------|-----------|
| 13 | 25 | (Theory) Exercises on programming: all | X | | | NO | Finalize control methods | 1,66 | 6,5 |
| | 26 | (Laboratory) Final project: definition of control methods | | X | Computer classroom | NO | | 1,66 | |
| 14 | 27 | (Theory) Exercises on programming: all | X | | | NO | Partial exam in class | 1,66 | 6,5 |
| | 28 | (Laboratory) Exam in class | | X | Computer classroom | SI | | 1,66 | |
| | 29 | Additional session (Laboratory) Final project: doubts and issues | | X | Computer classroom | SI | | 1,66 | 3,25 |
| Subtotal 1 | | | | | | | | 48 | 94 |
| Total 1 (Hours of class plus student homework hours between weeks 1-14) | | | | | | | | 142 | |
| 15 | | Tutorials,handing in,etc | | | | | | 3,6 | - |
| 16 | | Final exam | X | | | | Prepare the final exam of the course | 4 | 10 |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| Subtotal 2 | | | | | | | | 8 | 10 |
| Total 2 (Hours of class plus student homework hours between weeks 15-18) | | | | | | | | 18 | |
| TOTAL (Total 1 + Total 2. <u>Maximum 180 hours</u>) | | | | | | | | 160 | |