

## ECTS catalog with learning outcomes University of Montenegro

## Faculty of Science and Mathematics / COMPUTER SCIENCE / PROGRAMMING LANGUAGES

| Course:                          | PROGRAMMING LANGUAGES |                          |              |   |  |  |  |  |
|----------------------------------|-----------------------|--------------------------|--------------|---|--|--|--|--|
| Course ID                        | Course status         | Semester                 | ECTS credits | Lessons (Lessons+Exer cises+Laboratory) |  |  |  |  |
| 511                              | Mandatory             | 5                        | 5            | 2+2+0                                   |  |  |  |  |
| Programs                         | COMPUTER SCIENCE      |                          | •            | •                                       |  |  |  |  |
| Prerequisites                    |                       |                          |              |   |  |  |  |  |
| Aims                             |                       |                          |              |   |  |  |  |  |
| Learning outcomes                |                       |                          |              |   |  |  |  |  |
| Lecturer / Teaching<br>assistant |                       |                          |              |   |  |  |  |  |
| Methodology                      |                       |                          |              |   |  |  |  |  |
| Plan and program of<br>work      |                       |                          |              |   |  |  |  |  |
| Preparing week                   | Preparation and regis | stration of the semester | -            |   |  |  |  |  |
| I week lectures                  |                       |                          |              |   |  |  |  |  |
| I week exercises                 |                       |                          |              |   |  |  |  |  |
| II week lectures                 |                       |                          |              |   |  |  |  |  |
| II week exercises                |                       |                          |              |   |  |  |  |  |
| III week lectures                |                       |                          |              |   |  |  |  |  |
| III week exercises               |                       |                          |              |   |  |  |  |  |
| IV week lectures                 |                       |                          |              |   |  |  |  |  |
| IV week exercises                |                       |                          |              |   |  |  |  |  |
| V week lectures                  |                       |                          |              |   |  |  |  |  |
| V week exercises                 |                       |                          |              |   |  |  |  |  |
| VI week lectures                 |                       |                          |              |   |  |  |  |  |
| VI week exercises                |                       |                          |              |   |  |  |  |  |
| VII week lectures                |                       |                          |              |   |  |  |  |  |
| VII week exercises               |                       |                          |              |   |  |  |  |  |
| VIII week lectures               |                       |                          |              |   |  |  |  |  |
| VIII week exercises              |                       |                          |              |   |  |  |  |  |
| IX week lectures                 |                       |                          |              |   |  |  |  |  |
| IX week exercises                |                       |                          |              |   |  |  |  |  |
| X week lectures                  |                       |                          |              |   |  |  |  |  |
| X week exercises                 |                       |                          |              |   |  |  |  |  |
| XI week lectures                 |                       |                          |              |   |  |  |  |  |
| XI week exercises                |                       |                          |              |   |  |  |  |  |
| XII week lectures                |                       |                          |              |   |  |  |  |  |
| XII week exercises               |                       |                          |              |   |  |  |  |  |
| XIII week lectures               |                       |                          |              |   |  |  |  |  |
| XIII week exercises              |                       |                          |              |   |  |  |  |  |
| XIV week lectures                |                       |                          |              |   |  |  |  |  |
| XIV week exercises               |                       |                          |              |   |  |  |  |  |
| XV week lectures                 |                       |                          |              |   |  |  |  |  |
| XV week exercises                |                       |                          |              |   |  |  |  |  |
| Student workload                 |                       |                          |              |   |  |  |  |  |



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| Per week  |                     |   | Per semester  |   |   |                                       |  |  |
|---|---------------------|---|---|---|---|---------------------------------------|--|--|
| 5 credits x 40/30=6 hours and 40 minuts 2 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises 2 hour(s) i 40 minuts of independent work, including consultations |                     | Classes and final exam: 6 hour(s) i 40 minuts x 16 =106 hour(s) i 40 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 6 hour(s) i 40 minuts x 2 =13 hour(s) i 20 minuts Total workload for the subject: 5 x 30=150 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 30 hour(s) i 0 minuts Workload structure: 106 hour(s) i 40 minuts (cources), 13 hour(s) i 20 minuts (preparation), 30 hour(s) i 0 minuts (additional work) |   |   |   |                                       |  |  |
| Student obligations   |                     |   |   |   |   |                                       |  |  |
| Consultations   |                     |   |   |   |   |                                       |  |  |
| Literature  |                     |   |   |   |   |                                       |  |  |
| Examination methods   |                     |   |   |   |   |                                       |  |  |
| Special remarks   |                     |   |   |   |   |                                       |  |  |
| Comment   |                     |   |   |   |   |                                       |  |  |
| Grade:  | F                   | Е   | D   | С   | В   | А                                     |  |  |
| Number<br>of points   | less than 50 points | greater than or<br>equal to 50 points<br>and less than 60<br>points   | greater than or<br>equal to 60 points<br>and less than 70<br>points | greater than or<br>equal to 70 points<br>and less than 80<br>points | greater than or<br>equal to 80 points<br>and less than 90<br>points | greater than or<br>equal to 90 points |  |  |