

| Course Name : Software Testing and Quality Assurance |                                                                                                                                           |                                                                                                                       |                      |                      |                   |         |      |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-------------------|---------|------|
| Course Code                                          | Course Type                                                                                                                               | Regular Semester                                                                                                      | Lecture (hours/week) | Seminar (hours/week) | Lab. (hours/week) | Credits | ECTS |
| CMP 316                                              | B                                                                                                                                         | Spring                                                                                                                | 2.00                 | 0.00                 | 2.00              | 3.00    | 5.00 |
|                                                      |                                                                                                                                           |                                                                                                                       |                      |                      |                   |         |      |
| Lecturer                                             |                                                                                                                                           | Rexhion Qafa, Msc                                                                                                     |                      |                      |                   |         |      |
| Assistant                                            |                                                                                                                                           | Olsi Shehu, MSc                                                                                                       |                      |                      |                   |         |      |
| Course language                                      |                                                                                                                                           | Albanian                                                                                                              |                      |                      |                   |         |      |
| Course level                                         |                                                                                                                                           | Bachelor                                                                                                              |                      |                      |                   |         |      |
| Description                                          |                                                                                                                                           |                                                                                                                       |                      |                      |                   |         |      |
| Objectives                                           |                                                                                                                                           |                                                                                                                       |                      |                      |                   |         |      |
| Core Concepts                                        |                                                                                                                                           |                                                                                                                       |                      |                      |                   |         |      |
| Course Outline                                       |                                                                                                                                           |                                                                                                                       |                      |                      |                   |         |      |
| Week                                                 | Topic                                                                                                                                     |                                                                                                                       |                      |                      |                   |         |      |
| Prerequisites                                        |                                                                                                                                           | The student must attend the course at a minimum rate of 75%.                                                          |                      |                      |                   |         |      |
| Literature                                           |                                                                                                                                           | • Systematic Software Testing by R Craig & SP Jaskiel, Artech House, 2002.                                            |                      |                      |                   |         |      |
| References                                           |                                                                                                                                           | • Lessons Learned in Software Testing: A Context-Driven Approach, C Kaner, J Bach & B Pettichord, Wiley Europe, 2002. |                      |                      |                   |         |      |
| Course Outcome                                       |                                                                                                                                           |                                                                                                                       |                      |                      |                   |         |      |
| 1                                                    | Pershkruaje teknikat kyçe dhe standartet ne testimin software-ik.                                                                         |                                                                                                                       |                      |                      |                   |         |      |
| 2                                                    | Shpjegoje dhe vleresoje strategjite per testimin software-ik per gjithë ciklet dhe fazat individuale.                                     |                                                                                                                       |                      |                      |                   |         |      |
| 3                                                    | Prodhoje dokumentacion te duhur per menaxhimin e testimit, perfshire planet e testit, program testi dhe monitorim te progresit te testit. |                                                                                                                       |                      |                      |                   |         |      |
| 4                                                    | Specifikojë dhe dizenojë rastet testuese dhe te ekzekutojë nje proçedure testi per probleme te perzgjedhura.                              |                                                                                                                       |                      |                      |                   |         |      |

| Course Evaluation                                                        |          |                  |               |
|--------------------------------------------------------------------------|----------|------------------|---------------|
| In-term Studies                                                          | Quantity | Percentage       |               |
| Midterms                                                                 | 1        | 40               |               |
| Quizzes                                                                  | 0        | 0                |               |
| Projects                                                                 | 0        | 0                |               |
| Term Projects                                                            | 0        | 0                |               |
| Laboratory                                                               | 0        | 0                |               |
| Class Participation                                                      | 0        | 0                |               |
| Total in-term evaluation percent                                         |          |                  | 40            |
| Final exam percent                                                       |          |                  | 60            |
| Total                                                                    |          |                  | 100           |
| ECTS Workload (Based on Student Workload)                                |          |                  |               |
| Activities                                                               | Quantity | Duration (hours) | Total (hours) |
| Course duration (Including the exam week: 16x Total hours of the course) | 16       | 4                | 64            |
| Study hours outside the classroom (Preparation, Practice, etc.)          | 14       | 4                | 56            |
| Duties                                                                   | 0        | 0                | 0             |
| Midterms                                                                 | 1        | 2                | 2             |
| Final Exam                                                               | 1        | 2                | 2             |
| Other                                                                    | 0        | 0                | 0             |
| Total Work Load                                                          |          |                  | 124           |
| Total Work Load / 25 (hours)                                             |          |                  | 4.96          |
| ECTS                                                                     |          |                  | 5.00          |