

Course: Software Development Life Cycle (SDLC) Management

Master program in e-Business and e-Government, 2013-2014

Sofia University, Faculty of Mathematics and Informatics

The course "SDLC Management" covers basic ideas, views and major trends on the concept of quality in the development life cycle and maintenance of software, as well as the definition of software product quality according to ISO 9126 and IEEE Std 729.

Furthermore, it considers standards and models for software quality evaluation, use of quality software metrics; cost of software product quality; multi-criteria approach, statistical and probabilistic methods and Bayesian approach for software quality evaluation.

In addition, this course covers the use of fuzzy logic and fuzzy values in the evaluation of software quality; methods of classification and clustering for evaluation of software product quality.

The program is designed specifically for students in graduate programs or specialists who would like to obtain additional knowledge and experience to improve the effectiveness of software products.

The teaching of this discipline is related to the preparation of knowledgeable, trained personnel and quality professionals with good academic and practical training.

Input and output connections: it completes and builds on the knowledge and skills acquired in training and practice.

Course organization: lectures, seminars, exercises.

- Part of the presentations will be developed and presented by the students themselves, which will also help them to develop presentation skills.

Management & form of control: test

- There are two intermediate tests as an essential part of the final grade of the course.

So that, this course is designed for:

- professionals (bachelors, experts, graduated in mathematics and informatics, computer science or applied mathematics at FMI or related disciplines in other universities).

- non-specialists (bachelors degree in other disciplines)

- it is only necessary to have a basic knowledge in the field of education and information technology.