

**Faculty of International Economics and Administration**  
**Department: Informatics**  
**Professional area: Informatics and Computer Studies**  
**Major: WEB Design**  
**Educational – and - qualification Degree: Master**

## **COURSE DESCRIPTION**

1. Course unit title: **Web Service and Interface Design**
2. Course unit code: INF 3033
3. Type of course unit: compulsory
4. Level of course unit: Master
5. Year of study: second
6. Semester: third
7. Number of ECTS credits allocated: 4,5
8. Name of lecturer: Chief Asst. Galina Momcheva PhD
9. Learning outcomes of the course unit – obtained knowledge, skills, competences (objectives): The course aims to provide students with knowledge of web services and building interfaces. The main objective is relating the two areas in order to achieve implementation of web services for the purposes of building interactive web applications. The specific tasks to be achieved through the course of training include:

- studying the concept of a service and its most commonly applied variations in practice, with the emphasis being placed on web services;
- tools for implementation of existing services.

Depending on their level of training obtained from the Bachelor's programmes, learners will be able, in groups, to take part in the designing of a software project, where they will be able to demonstrate their skills and knowledge.

Students will acquire knowledge and skills which they will use daily when building and optimizing web applications. They will gain knowledge of the development of graphic user interfaces and of the latest research findings in the relevant area.

Learners will participate both in the development of new interfaces and in the improvement of the existing ones.

10. Mode of delivery: face-to-face

11. Prerequisites and co-requisites:

At the beginning of the 3<sup>rd</sup> semester the Master students have already obtained knowledge of HTML XML, PHP, graphic design, typography, web technologies and standards, and need to be able to build professional applications which will link the studied technologies and disciplines.

12. Course contents (annotation)

The course of training results in acquisition of knowledge and skills enabling students to build and assess quality graphic user interface and to design, build and implement web services.

Students are provided with tools for assessment and self-assessment of interfaces and services as to their functionality, flexibility, creativity and standardization.

13. Recommended or required reading:

- Blanchette Jasmin, The Little Manual of API Design, Нокиа, 2008
- Chen Michael etc., Voice User Interface Design, Addison Wesley, 2004
- Galitz Wilbert., The Essential Guide to User Interface Design: An Introduction to GUI Design Principles and Techniques, John Wiley & Sons, 2007
- Rosebrock Eric, Creating Interactive Web Sites with PHP and Web Services, Sybex, 2003
- Scott Bill etc, Designing Web Interfaces, O'Reilly, 2009
- Tidwell Jenifer, Designing Interfaces, O'Reilly, 2011
- Димитров Владимир, Ориентирана към услуги архитектура, Технологиика, 2009
- Джамбазов Венцислав, УЕБ БАЗИРАНИ ПОТРЕБИТЕЛСКИ ИНТЕРФЕЙСИ, Нов български университет, 2011

14. Planned learning activities and teaching methods:

- Lectures (*3 hours a week, 10 weeks*)
- Scheduled contact hours (conventional or individual contact hours) (*2 hours a week, 10 weeks*)
- Group seminars and workshops (*2 hours a week, 3 weeks*)
- Project assignments and research (*2 hours a week, 10 weeks*)

15. Assessment methods and criteria: tests, project defence, rubrics

16. Language of instruction: Bulgarian, English, Russian

17. Work placement: none