

**Sofia University “St. Kliment Ohridski”
Faculty of Mathematics and Informatics
Department of Information Technologies**

MASTER THESIS

Theme:
Modern assessment methods

Student:

Angelina Kirkova - Bogdanova, Fac.No M21798,
Speciality “Informatics”, Master degree programme “E-learning”

Major advisor:

Assoc.prof. Iliana Nikolova, PhD, Head of department “Information technologies”

Advisor:

Slavi Stoyanov, PhD, Open University, The Netherlands

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Abstract:

The aim of the master thesis is design of an assessment methodology for higher order competences – information and communication technologies /ICT/ enhanced competences, through analysis of the modern assessment methods, selection of proper methods and tools and design of basic assessment activities within an e-learning course. Research of the essence, goals and meaning of assessment in the modern higher education is carried out. The research outlines the major principles for planning and design of effective assessment and provides a framework and guidelines for the design of the assessment units. The following modern assessment methods are described: self-assessment, peer assessment, 360 degree feedback, performance assessment and portfolio assessment. The projects - I*Teach providing methodology and pilot training for development of ICT enhanced skills, and TENCompetence providing technological infrastructure for e-learning are introduced. The IMS Learning Design and IMS Question and Test Interoperability standards are described. The offered assessment methodology comprises implementation of the following methods: 360 degree feedback, which includes self-assessment, peer-assessment for assessing teamworking competences and performance assessment in the domain oral presentation skills. It offers an approach and a tool for formative assessment within the learning activities in the domain information skills and a detailed instrument for summative assessment of all competences. Methods and procedures for processing assessment results and grading are developed. Each assessment task is described in I*Teach task template. Final results of the

methodology design are portable assessment units, modelled in IMS LD. The assessment units are to be tested in Sled Learning Design Player, developed in TENCompetence. Conclusions on validity, reliability and effectiveness can be made only after a pilot assessment in a real training process. The work on the theme is interesting and challenging, because it deals with innovations and problems evolving from the dynamics of the modern life and education.