



Joint Project Curricula Reform

Two cycle E-Commerce curricula to serve Information Society in RU, UA and IL



Coordination Conference

& Interproject-Coaching with Tempus-PROMENG

Berlin Institute of Technology 02 - 04 April 2012 - Berlin, Germany

This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein



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European Credit Transfer and Accumulation System (ECTS) and VGTU case

The presentation is prepared (cited) using the information in the listed sources



What is ECTS?

ECTS - The European credit transfer and accumulation system is a student-centred system based on the student workload required to achieve the objectives of a programme, objectives preferably specified in terms of the learning outcomes and competences to be acquired.

ECTS was started under the Erasmus programme in 1988.

The three main ways of ECTS credit introduction at national level:	The main principles of philosophy:
 Legal (LT); Consensus-based; Recommendation-based 	 Value of the studies abroad; Knowledge of and trust in partner HEI; Voluntary basis for its introduction; Full recognition of the courses completed abroad by the mobile students.



The Key ECTS Features

In 2002 (Zurich Conference) they were presented by the European Commission in the separate document which stated:

- "1. ECTS is a student-centred system based on student workload required to achieve expected learning outcomes;
- 2. ECTS is based on convention that 60 credits are attached to the national workload of a full-time student during one academic year;
- 3. Credits are allocated to entire qualifications or study programmes as well as to their educational components;
- 4. Credits are awarded to individual students;
- 5. Credits may be accumulated with a view to obtaining qualifications, as decided by the degree-awarding institution;
- 6. Credits awarded in one programme may be transferred into another programme."



The main ECST elements

ECTS requires to use new elements in approach to study programmes design:

- 1. student workload;
- 2. learning outcomes and competences;
- 3. use of ECTS credits.





Development of the module



NOTE: 1) Small modules - information more specialized but less integrated 2) Big modules clearer structure of the programme, better coherence in the studied subject, but more difficult to transfer to other context and compare.



Challenges for HEI

Learning outcomes

- Confusion between competences and LO
- Lack of skills in formulating LO
- Problems of translating the term and using appropriate language

Workload

Credits

- There is no tradition to calculate workload and consult students – time and activities do not match
- Organization of teaching and learning still teacher centrlised
- No credit thinking in the country and most of the institutions
 - Credits are not seen as a tool for programme design
 - Limited use of credits to measure student progress



Student workload

Student workload in ECTS consists of the time required to complete all planned learning activities such as attending lectures, seminars, independent and private study, preparation of projects, examinations, and so forth.

I. Introducing modules/courses units II. Estimating student workload	There are non-modularized systems and mpdularized systems. In a <u>non-modularized system</u> each course unit can have a different number of credits although the total for one year will still be 60. In contrast, in a <u>modularized system</u> the course units/modules have a fixed workload, 5 credits for example, or a multiple of this number. The workload of a module is based on the total amount of tasks a student is expected to do as part of the overall programme of study. These tasks are defined with a view to the learning outcomes to be achieved, and the time (work hours) a student needs to achieve them. For example, a module of 5 credits allows for around 125 hours of work of a typical student. Each module is based on a number of educational activities: types of courses: lecture, seminar, research seminar, exercise course, practical, laboratory work, guided personal study, tutorial, independent studies, internship, placement or 'stage', fieldwork, project work, etc. types of learning activities: attending lectures, performing specific assignments, practicing technical or laboratory skills, writing papers, reading books and papers, learning how to give constructive criticism of the work of others, chairing meetings, etc. types of assessment: oral examination, written examination, oral presentation, test, paper, portfolio, thesis, report about an internship, report on fieldwork, continuous assessment, etc. Teachers estimate the time required to complete the activities foreseen for each course unit / module. The workload expressed in time should match the mumber of credits available for the course unit. Teachers must develop suitable strategies to use to best advantare the time available.	TUNING METHOLOGY
III. Checking the estimated workload through student evaluations	The most common method to check whether the estimated student workload is correct is the use of questionnaires to be completed by students, either during the learning process or after the completion of the course.	
IV. Adjustment of workload and/or educational activities	Monitoring process or an updating of the course content might lead to an adjustment of the workload and/or of the educational activities of the course unit/module. In a <u>modularized model</u> it will be necessary to adjust the amount of learning material and/or the types of teaching, learning and assessment activities, because the number of credits (e.g., in our example, 5 or a multiple of 5) is fixed. In a <u>non-modular model</u> also the number of credits can be changed, but this will have an effect on other units, because the total number of credits of the programme of study is fixed (e.g. 30 per semester, 60 per year etc.). An adjustment of workload and/or activities is required anyway when student workload does not correspond to the actual workload.	



Estimation of workload in ECTS

The learning activities may vary in different countries, institutions and subject areas, but typically the estimated workload will result from the sum of:

- 1. the contact hours for the educational component (number of contact hours per week x number of weeks);
- the time spent in individual or group work required to complete the educational component successfully (i.e. seminar or laboratory work; collection and selection of relevant material; required revision, study of that material; writing of papers/projects/dissertation; practical work, e.g. in a laboratory);
- 3. the time required to prepare for and undergo the assessment procedure (e.g. exams);
- 4. the time required for obligatory placement(s).



Competences and learning outcomes

Competences - a dynamic combination of cognitive and metacognitive skills, knowledge and understanding, interpersonal, intellectual and practical skills, ethical values and attitudes.

Learning outcomes - statements of what a learner is expected to know, understand and be able to do after successful completion of a process of learning.



Accumulation and transfer approaches

The ECTS for accumulation and transfer is guided by the following approaches:

- ",1. It is a learner-centred system which aims to increase transparency of learning outcomes and learning process;
- 2. It aims to facilitate planning, delivery, evaluation, recognition and validation of qualifications and units of learning as well as student mobility;
- 3. It can be applied to lifelong learning activities;
- 4. Non-invasive allowing to preserve national educational autonomy;
- 5. It is applicable to all sectors of higher education."



VGTU case

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Scope of studies in Lithuania is measured in credits.

One credit ~ 40 hours of study (in classrooms, laboratories, self and others.), it its one working week, or ~ 1.5 ECTS

The average one-year full-time study scope is 40 credits or 60 ECTS Non-modularized system - each course unit can have a different number of credits although the total number for one year - 60 ECTS

Countries	Hours range/academic year	Hours range/credit	
Germany	1,800h	30h	
Lithuania	1,600h		1 ECTS = 26, 66
Netherlands	1,680h	28	





Business Management (who admitted at 2011)

University first cycle (undergraduate, Bachelor' s) studies Faculty: Faculty of Business Management Mode of studies: Continual studies Name of qualification: Bachelor of Business

6 Semester	15 weeks	(teaching course) -	+ 4 weeks	(session) +)	1 weeks ((independent work)) = 20 weeks
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Course number and description	Course title	Hours/Sem.	Credits (PC)	ECTS credits	Assessment
Information Bus	siness Management				
VVEVB11601	International Economics	30 00 015 15	3,0	3,00	E1
VVEVB11602	Innovation Management	30 00 030 06	6,0(2,0)	6,00	E
VVFRB11601	Business Projects	30 00 030 06	6,0(2,0)	6,00	E
VVFRB11604	Business Risk	30 00 015 03	3,0	3,00	E
VVFR811605	Financial markets and institutions	30 00 015 03	3,0	3,00	E1
VVVTB11601	Logistics	30 00 030 15	5,0	5,00	E
Free choice obli	gatory course		4,0	4,0	



DESCRIPTION OF THE ECOMMIS Curricula/Module (1)

TITLE OF THE MODULE	Code
Teacher(s)	Department

Leacher(s)	Department
Coordinating:	
Others:	

Study cycle	Level of the module	Type of the module

Form of delivery	Duration	Langage(s)

Prerequisites		
Prerequisites:	Co-requisites (if necessary):	

Credits of the module	Total student workload	Contact hours	Individual work hours

Aim of the module (course unit): competences foreseeen by the study programme						
Learning outcomes of module (course unit)	Teaching/learning methods	Assessment methods				
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•						
•						



DESCRIPTION OF THE ECOMMIS Curricula/Module (2)

	Contact work hours						Time and tasks for individual work		
Themes	Lectures	Consultations	Seminars	Practiacl work	Laboratory work	Placements	Total contact work	Indiridual work	Tasks
1.									
2.									
3.									
4.									
5.									
6.									
At all:									

Assessment strategy	Weig ht in %	Deadlines	Assessment criteria

Author	Year of issue	Title	No of periodical or volume	Place of printing. Printing house or intrenet link		
Compulsory literature						
Additional literature						



Information sources:

1. ECTS Users' Guide European credit transfer and accumulation system (ECTS)

http://ec.europa.eu/education/lifelong-learning-policy/doc/ects/guide_en.pdf

- 2. European credit transfer and accumulation system (ECTS) <u>http://ec.europa.eu/dgs/education_culture/publ/pdf/ects/en.pdf</u>
- 3. The ECTS system http://www.studyineurope.eu/ects-system
- 4. Raimonda Markevičienė, ECTS European Credit Transfer and Accumulation System: history... implementation... problems.... *tempus.org.ua/uk/korysna.../268.../download.html*
- "Europos kreditų perkėlimo ir kaupimo sistemos (ECTS) nacionalinės koncepcijos parengimas: kreditų harmonizavimas ir mokymosi pasiekimais grindžiamų studijų programų metodikos kūrimas ir diegimas.

(Development of the Concept of the European Credit Transfer and Accumulation System (ECTS) at the National Level: Harmonization of the Credit and Implementation of the Learning Outcomes Based Study Programme Design) http://www4066.vu.lt/Projekto_rezultatai (http://www4066.vu.lt/Naudinga_informacija)

- 6. Calculating and measuring student workload and a method to allocate workload (StOEHn) http://www.stoehn.fh-aachen.de/uploads/media/Workload_tuning.pdf and etc.
- 7. Asko Karjalainen, Katatiina Alha and Suvi Jutila, *Give me time to think. Determining student workload in higher education*, Oulu University Press 2006, ISBN 951-42-8020-2.