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"Development of a flexible, innovative and practical framework for Work-based Learning in higher education of Armenia and Russia" (FlexWBL)

REPORT

On "041301.13.7- Project Management" Curriculum Analysis

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Introduction

"041301.13.7- Project Management" Curriculum analysis was carried out by the NUACA Educational Programs Board staff within the framework of FlexWBL Erasmus+ project. The analysis tends to reveal, within the project mentioned, the appropriate possibilities that would enable the functioning curriculum turn into an integrated curriculum (i.e. using work-based learning principles).

1. Curriculum analysis methodology and results

"041301.13.7- Project Management" Master Degree curriculum analysis has been carried out with the use of a number of indicators which have been developed, discussed and confirmed within the FlexWBL Erasmus+ project WP2.2 working package framework on the initiative of Klaipeda University. The results of the analysis are presented in Table 1 below.

Table 1. "041301.13.7- Project Management" Curriculum Analysis

NN	Indicators	Description
1	Study program code	041301.13.7
2	Study program title	Project Management
3	Qualification	Master
4	Students	
4.1	Total number of the students involved in the study program	8 students

4.2	Number of working students	8 students
4.3	Number of the students working in profession	2 students
5	Curriculum development process	
5.1	Curriculum developers (name of the department)	Educational Programs Department, Specializing Chair
6	Curriculum approval process	Coordinated by the Educational Programs Department the Specializing Chair forms a working group. The curriculum draft is developed and discussed by the stakeholders. The final version of the curriculum is recommended for approval by the decision of the Chair which is presented to the Educational Programs Department. The Educational Programs Department, with accompanying report, presents it to the Scientific Council's forthcoming meeting to be discussed and approved.
6.1	The curriculum approving body	Scientific Council
6.2	Stages of Approval	1. Curriculum draft development. 2. Discussion among the stakeholder. 3. Preparation of the final version recommended by the releasing chair. 4. Discussion and approval by the Scientific Council.
7	Study program goal and learning outcomes	The goal of the study program is to pass contemporary theoretical and practical knowledge and skills related to construction project management to the students in such a volume and content that corresponds to the RA Quality National Framework requirements for the students to receive a Master Degree and which will ensure their effective professional activity in the future and/or during the next stage of learning.
8	Assessment of knowledge and competences	Examination, tests, course project, paper presentations, practical work, internship and Master's Thesis.
9	Possibilities for the students to find a job (<i>note the field, state or private sector enterprise, organization, company, office, etc</i>)	State and private construction organisations, companies, enterprises, organizations of other spheres acting on the principles of project planning and project financing.
10	What percentage of the study program graduates start work immediately (average data)?	70%
11	Study program duration (note how many years/months/terms)	1.5 years / 3 semesters
12	Study program workload	

12.1	Student's work volume in hours	2700
12.2	Sum total of credits (ECTS)	90
12.3	Classroom hours	744
12.4	Individual work	1956
12.5	Number of lectures (percentage in the total)	58%
12.6	Number of practical classes (% within the total hours)	42%
13	Duration of the field study /credits acquirable	8 weeks / 8 credits
13.1	Period of the field study	May-July
14	Curriculum structure	Annex 1
14.1	The ratio of specializing subjects in total (in %)	58% (out of 24 subjects 14 are of narrow specialization)
14.2	The important subjects for the students who work in their profession	"Project Management" "Project Management in action"
15	Syllabus elaboration (<i>Describe in concise the process of syllabus development process. Does it contain special academic hours envisaged for learning at the student's workplace off the University?</i>)	The Syllabus of specializing subjects is developed in accordance with the learning outcomes of these subjects which, in their turn, accord with the study program learning outcomes. Currently during the semester no classes are foreseen in the workplace of enterprises / organizations.
16	Strategy implemented under the study program (<i>Mention the students' and lecturers' norms of behavior within the program, particularly the student's attendance, teaching methods (lectures, interactive discussions, slide shows and other methods, etc.)</i>)	The students' attendance at the lessons planned by the university is compulsory. The faculty's and students' responsibilities and rights are regulated by a number of relevant regulations.
17	Student's work load per week (note: how many hours per week on average does the student spend at the university? What percentage of these hours provide theoretical and practical classes?)	Student's work load per week makes 20 academic hours on average. The Syllabus of Master Curricula doesn't include the division the total number of hours to theoretical and practical. Professors decide themselves in depend from the kind of subject.

2. How to make the curriculum integrated (based on WBL principles)

As a result of FlexWBL Erasmus+ Project realization it is envisaged to make some structural amendments in the Syllabus of some subjects in "041301.13.7- Project Management" curriculum, including the hours to be spent in the workplace of the companies or industrial organizations.

Annex 1. “041301.13.7- Project Management” Master Degree Curriculum Structure

##	Subjects	Credits	Student's work volume in hours		
			Total	Lectures	Individual Work
	Compulsory Disciplines				
1	Project Management Fundamentals	2	60	20	40
2	<i>Project Management in Action</i>		0	0	0
2.1	Scheduling and Cost Planning	2	60	24	36
2.2	Risk management	2	60	20	40
2.3	Project Financing and Procurement	2	60	24	36
2.4	Human Resources Management	2	60	20	40
2.5	Negotiations and Conflict Resolution	2	60	24	36
2.6	Project Monitoring and Quality Management	2	60	24	36
3	Strategic Management	4	120	40	80
4	Flexible Project Management Methodology	3	90	34	56
5	Entrepreneurship for Engineers (CP)	6	180	44	136
Total		27			
6	Electives*				
6a	Construction Economics	2	60	24	36
6b	Real Estate Economics				
6c	Spatial Planning				
Total		2			
	Mandatory Disciplines				
7	Sustainable Development of Built Environment	3	90	32	58
8	Design and Construction Principles	3	90	32	58
9	Construction Project Implementation Legal Bases and Contract Management	3	90	28	62
10	Construction Industry Technology and Organization (TP)	4	120	28	92
11	Pricing and Cost Estimation in Construction Sphere	4	120	38	82
12	Construction Process Management (Logistics)	3	90	28	62
13	Principles and Application of Building Information Modelling (BIM)	3	90	32	58
14	Construction Project Management	4	120	50	70
Total		27			
15	Electives*				
15a	Building Information Modelling (BIM) for Construction Industry Managers	4	120	40	80

15b	Construction Work Evaluation and Monitoring				
15c	Practical Experience and Information Technologies in Construction				
Total		4			
	Research Disciplines				
16	Theory of Science and Research Work Methodology	2	60	12	48
17	Internship	8	240	0	240
18	Master's Individual Classes with Diploma Supervisor (CP)	20	600	126	474
	Master's Thesis Development and Defence				
Total		30			
Sum of Hours			2700	744	1956
Sum of Credits		90			