

Number :

Date : 06.04.2015

Department : FORESTRY ENGINEERING, UNDERGRADUATE PROGRAM,(FORMAL EDUCATION)

Academic Year : 2014 - 2015

Course Name :		FOREST OPERATIONS				Course Code : ELOM 4126	
Semester	Theory	Practice	Lab	Credit	ECTS	Course Language	Course Type
8	2	0	0	2	3	Turkish	Elective
Admission Requirements :		Koşul Mevcut Değil					
Compulsory Attendance :		Theory		Practice		Lab	
		70 %		%		%	
Course Teacher(s) :		Prof. Dr. MURAT DEMİR					
Course Content :		Definition of forestry, importance of construction science in forestry, forest operations management, construction works in forestry (harvesting structures, flood-avalanche and wind erosion preclusive structures, forest protection structures, recreational structures, cultivation structures, forest villagers improvement structures, forestry service buildings), projects of forestry construction works, tender procedures in forestry, construction site management, occupation knowledge-occupational safety-ergonomics in forestry construction works, natural structure materials (stone, aggregate, timber, metal), artificial structure materials (binder, grout, concrete, glass, paint, geotextile, isolation materials, overlay, pipe).					
Course Learning Outcomes :		- Knows and understand about the importance of construction science in Forest Engineering education. - Knows and understand importance of the forestry operations and management. - Knows construction work in forestry. - Knows rough copy, plan, project, cross section, aspect, detail project, architectural project, preliminary project, final project, as-built project. - Knows dimensioning of plan and project. - Knows dimensioning of construction works project in forestry. - Knows tendering procedure in forestry (Law number-4734 public procurement law). - Knows and prepare tender document and letter of tender. - Prepare unit price analysis, quantity survey, bill of quantity in construction works of forestry. - Knows construction site management construction works of forestry. - Knows occupation knowledge, occupational safety and ergonomics in construction works of forestry. - Knows and use natural and artificial construction materials					
Teaching and Learning Methods :		Presentation by the way of teaching - Plain speech - Discussion - Question-answer, Homework					
Continuous Improvement in the Context of the courses (questionnaires, interviews, and so on.) Front Shown Measurement and Evaluation Tools and Objectives :		Annual questionnaire, interviews with students, following to similar national and international course's content.					
Contribution of Learning Outcomes on Program Competency :		The course of the construction of basic engineering courses, learn the necessary technical information sections that engineering education, teaching material, information, and so provide the information.					
Assessment System				Number	Contribution (%)		
Assignments				0	0		
Presentation				0	0		
Mid-term Examinations (including time for preparation)				1	40		
Project				0	0		
Clinical Practice				0	0		
Laboratory				0	0		
Field Work				0	0		
Other Applications				0	0		
Quiz				0	0		

Term Paper/ Project	0	0
Portfolio Study	0	0
Reports	0	0
Learning Diary	0	0
Thesis/ Project	0	0
Seminar	0	0
Other	0	0
Final Exam	1	60
Total	2	100
The Weight of the In-Term Assignments in the Final Grade	1	40
The Weight of the End of Term Exam in the Final Grade	1	60
Total	2	100
Continuous Improvement in the Context of the courses (questionnaires, interviews, and so on.) Front Shown Measurement and Evaluation Tools and Objectives :	Annual questionnaire, interviews with students, following to similar national and international course's content.	

ECTS			
Activities	Number	Time	Credit Workload
Class Hours	14	2	28
Working Hours out of Class	14	1	14
Assignments	1	2	2
Presentation	2	2	4
Mid-term Examinations (including time for preparation)	6	2	12
Project	0	0	0
Clinical Practice	0	0	0
Laboratory	0	0	0
Field Work	0	0	0
Other Applications	0	0	0
Final Examinations (including preparatory year)	6	1	6
Quiz	0	0	0
Term Paper/ Project	0	0	0
Portfolio Study	0	0	0
Reports	0	0	0
Learning Diary	0	0	0
Thesis/ Project	0	0	0
Seminar	0	0	0
Other	0	0	0
Total Workload			66
Total Workload / 25			2,64
ECTS Credit of Course			-3

Weekly Course Contents	
Week	Theoretical Topics
1	Contents of Forestry sciences and profession, requirement of construction knowledge in forestry, relationships between forestry and construction science
2	Forest operations and management, Construction works in forestry, harvesting structures, flood-avalanche and wind erosion preclusive structures, forest protection structures
3	Construction works in forestry, recreational structures, cultivation structures, forest villagers improvement structures, forestry service buildings
4	Projects of forestry construction works, rough copy, plan, project, cross section, aspect, detail project, architectural project, preliminary project, final project, as-built project, dimensioning of plan and project
5	Tendering procedure in forestry (Law number-4734 public procurement law)
6	Tendering procedure in forestry (Law number-4734 public procurement law)

7	Tendering procedure in forestry (Law number-4734 public procurement law)
8	Tendering procedure in forestry (Law number-4734 public procurement law)
9	Construction site management, construction techniques, progress payment, final account, recording in construction site
10	Occupation knowledge-occupational safety-ergonomics in forestry construction works
11	Natural structure materials (stone, aggregate)
12	Natural structure materials (timber, metal)
13	Artificial structure materials (binder, grout, concrete)
14	Artificial structure materials (glass, paint, geotextile, isolation materials, overlay, pipe)

Week	Practice Topics
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	

Relationship of Proficiency Program with Course Learning Outcomes

No	Program Competencies	Point
1	Adequate knowledge in mathematics, science and forest engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.	0
2	Ability to identify, formulate, and solve complex problems in forest engineering; ability to select and apply proper analysis and modeling methods for this purpose.	0
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.	0
4	Ability to devise, select, and use modern techniques and tools needed for engineering practice; ability to employ information technologies effectively.	0
5	Ability to design and conduct experiments, gather data, analyze and interpret results for investigating engineering problems.	0
6	Ability to find knowledge and searching reference for this purpose, Ability to use databases and other references.	0
7	Ability to work efficiently in intra-disciplinary and multi-disciplinary teams; ability to work individually.	0
8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.	0
9	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.	0
10	Awareness of professional and ethical responsibility.	0
11	Information about business life practices such as project management, risk management, and change management; awareness of entrepreneurship, innovation, and sustainable development.	0
12	Knowledge about contemporary issues and the global and societal effects of engineering practices on health, environment, and safety; awareness of the legal consequences of engineering solutions.	0

Contribution Level: 1 low, 5 high.

Contribution of Learning Outcomes on Program Competency :	The course of the construction of basic engineering courses, learn the necessary technical information sections that engineering education, teaching material, information, and so provide the information.
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