

## TIMBER STRUCTURES – ERGONOMY AND AESTHETICS

### 1. GENERAL

<b>SCHOOL</b>	School of Technology		
<b>DEPARTMENT</b>	Department of Forestry, Wood science and Design		
<b>LEVEL</b>	<i>Undergraduate</i>		
<b>CODE</b>	ΞΞΕ891	<b>STUDENT SEMESTER</b>	7 th
<b>COURSE TITLE</b>	Timber Structures - Ergonomy and Aesthetics		
<b>ACTIVITIES</b>		<b>WEEKLY HRS</b>	<b>ECTS</b>
	Lectures and Workshops	2+1	6
<b>TYPE OF COURSE</b>	Scientific area		
<b>PREREQUISITES:</b>	none		
<b>LANGUAGE TEACHING AND EXAMINATION:</b>	Greek or English		
<b>THE COURSE OFFERED TO STUDENTS ERASMUS</b>	Yes		
<b>WEBPAGES COURSE (URL)</b>			

### 2. LEARNING OUTCOMES

<b>Learning Outcomes</b>
<p>Aim, of course, they are the students to deepen their knowledge round the ergonomy, the aesthetics, the structure and the exploitation of wooden manufactures that is used in the modern residence and labour space, specialised or in compositions. Such manufactures are as an example the furnitures individual (eg. chair, armchair, couch, table) or in composition (eg set lounge, dining room coke). All these in harmony aesthetic and utilitarian with each environment.</p> <p>With the completion of course, the student should be in the position:</p> <ul style="list-style-type: none"> <li>• Know the basic beginnings and significances of ergonomy, with base medium human somatotype and the needs of human operations.</li> <li>• Conceive the basic significances and the terms that concern the object's decorative internal (main) spaces.</li> <li>• Be familiarized with the use and the designing of furnitures in the space.</li> <li>• Handle the means, the materials, and the bodies of design that are used in the presentation of drawings.</li> <li>• Acquire easily the optical perception and "sense of" space.</li> <li>• Use color in his drawings.</li> <li>• Can attribute the prospect designing of various objects, as well as space.</li> <li>• Solve simple problems of decoration in professional spaces or spaces of residence.</li> <li>• Know it manufactures in scale for the support of his proposal</li> </ul> <p>General Faculties</p> <ul style="list-style-type: none"> <li>• Search, analysis and composition of data and information, with the use of also suitable technologies</li> <li>• Planning and management of work</li> <li>• Decision-making</li> <li>• Autonomous work</li> <li>• Common Work, co-ordination of action</li> <li>• Critical perception, the flexibility of action</li> <li>• Promotion of free, creative and inductive thought</li> </ul>

General Skills	
	<ul style="list-style-type: none"> <li>• Search, analysis and composition of data and information with regard to the attributes that are examined .</li> <li>• Growth of criticism thoughts for the discovery and resolution of problems of quality.</li> <li>• Familiarization with the use of also essential modern appliances</li> <li>• Decision-making</li> <li>• Autonomous Work</li> <li>• Promotion free, creative and inductive thought</li> </ul>

### 3. COURSE CONTENT

In the theoretical part of course the student is taught and learns for:	
	<ul style="list-style-type: none"> <li>• rules of organisation and circulation in the area,</li> <li>• rules of articulation of spaces – communication and relation of spaces</li> <li>• configuration of space, aiming at the improvement of human operations</li> <li>• studies of special needs and preferences of user of space</li> <li>• analysis of rules of ergonomy with regard to the space and the environment</li> <li>• basic rules of aesthetics</li> <li>• basic rules of choice and application of colours</li> <li>• use of suitable materials in the configuration of internal nutshell</li> <li>• right choice of mobile equipment-furniture, decorative objects, buckrams and investment materials, combinations of colours, materias, and formats</li> <li>• ways of choice and creation of ground plans and other aspects of “proposal of” internal decoration</li> <li>• ways of manufacture in scale proposal – materially and methodology</li> </ul>

### 4. TEACHING AND LEARNING METHODS - EVALUATION

<b>DELIVERY METHOD</b>	Face to face	
	The course is organized in two parallel streams:	
	1. Lectures, which analyze the concepts and methodologies that form the core of the course material	
	2. Workshops (studios), where students: get acquainted with methods and tools of creative thinking and analysis, consultation, synthesis of ideas and plans are organized in groups - with emphasis on interdisciplinarity	
<b>USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES</b>	Use of PC , transparencies ppt, projector <ul style="list-style-type: none"> <li>• Interactive board</li> <li>• Laboratorial equipment with the all essential instruments but also samples of composite products.</li> </ul>	
<b>MANAGEMENT OF TEACHING</b>	<b>Activity</b>	<b>Semester Workload</b>

	Lectures	39
	Individual work on issues of quality but also her application in various phases of production.	77
	Educational excursion / Small individual work exaskisis	10
	Individual and work study for term assignment	24
	<b>Course Total</b>	<b>150</b>
<b>STUDENT EVALUATION</b>	<p>Written final examination (50%) that it includes:</p> <ul style="list-style-type: none"> <li>- Questions of short answer from the all matter of book</li> </ul> <p>II Home work presentation (50%)</p>	

## 5. RECOMMENDED-BIBLIOGRAPHY

-Προτεινόμενη Βιβλιογραφία :

- Ashby M., Johnson K., 2007. Υλικά και Σχεδιασμός. Η τέχνη και επιστήμη επιλογής υλικών στο σχεδιασμό προϊόντων. Εκδ. Κλειδάριθμος, σελ. 368.
- Κωνσταντινίδης Α. 2011. Για την Αρχιτεκτονική. ΙΤΕ – Πανεπ. Εκδ. Κρήτης, σελ. 376.
- Λάββας Γ. 2010. Ζητήματα Πολιτιστικής Διαχείρισης. Εκδ. Ραγιά, σελ. 264.
- Neufert E. 2003. Οικοδομική & Αρχιτεκτονική Σύνθεση. Εκδ. ΓΚΙΟΥΡΔΑΣ, σελ. 652.
- O'Shea L., Grimley C., Love M. 2013. The Interior Design Reference & Specification Book Rockport Publishers, p. 287.
- Σκαρβέλης Μ. 2019. Τεχνολογία Παραγωγής Επίπλου. Εκδ. Τζιόλα, σελ. 333.
- Χαραλαμπίδου Ε. 2011. Σχεδιασμός Εσωτερικών Χώρων. Εκδ. ΙΩΝ, σελ. 164
  - Χιωτίνης Ν. 2011. Εισαγωγή στην Ιστορική Σημαντική της Αρχιτεκτονικής Πράξης. Εκδ. ΙΩΝ, σελ. 208.