A Section - Macro Level

SIVITANIDIOS TECHNICAL SCHOOL – Country: Greece

Title	Design a complex element (relax couch) of a piece of furniture using CNC (numerical control working centre)		
Reference class	***3rd year (EPAS)***		
Working hours	**10**	Implementation Period	**April '10 – June '10**
Competence at the end of this module	Make drawings and interpret technical documentation.		

Skills	Knowledge	Involved Subjects
Using drawing pc programs (autocad – cad/cam) and comprehend their philosophy	Modularity, measure and ratio concepts Basic beginnings of drawing (units of measurement, object's placement in the surface of designing, ratio concepts)	Technical Drawing
Transport of sketch from the paper in the program of designing (according dimensions)	Two and three-dimensional designing process, and graphic	
Execute a technical executive drawing also with CAD Information medium according to UNI/ISO regulations.	UNI/ISO regulations for technical drawing	
Competence verification method		
Competence verification method will be effected during two different moments: • During the design process • At the end through the design analysis and print		

B Section - Micro Level

Working Process				
n.	hours	Title	Teacher Activity	Student Activity
1	4	**Sketch, invention and representation with traditional methods (on paper)**	The teacher proposes the basic modular system analysis The teacher defines the technical standards that should be used by the students	The student represents the development of formal ideas with basic dimensioning

			The teacher defines the product dimensioning The teacher defines the basic steps for the development	
2	6	**Operational drawing with pc programmes**	The teacher shows and explains the functioning controls to use CAD programme The teacher shows and explains the print process	The student transfers his/her own design from paper to computer The student produces a printout with definition of surface and dimensioning stroke