

COURSE: Mechanical Technology		
DEGREE: Bachelor in Mechanical Engineering	YEAR: 3	TERM: 2

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Course presentation. Manufacture systems and processes.General concepts of Metrology				Pre-reading class topic	1.66	6.5
	2	Presses. Punching and Shearing				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	
2	3	Practice 1: Modeling by shape deformation I. Tools.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	4	Sheet metal cutting: Other cutting processes. Roll forming. Bending				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	
3	5	Problems related with: Presses, shearing processes + Tests				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	6	Deep drawing.Profiling. Tests				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	

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4	7	Problems + Tests				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	8	Extrusion. Forging. Sheet metal forming problems + Tests				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	
5	9	TEST 1. Sheet metal forming problems				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	10	Introduction to machining processes: Tool geometries. Cutting parameters.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	
6	11	Practice 2: Sheet metal forming. Numerical modeling approach.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	12	Timing and costs. Taylos equation.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	
7	13	Works in group definition. Introduction to machining processes problems.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	14	Turning.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	
8	15	Turning's problems.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	16	Turning				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	

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9	17	Practice 3: Modeling by machining: Cutting tools and tool-machines CNC.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	18	Milling				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	
10	19	Milling problems. Deadline for the preliminary works.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	20	Types of CNC programs. Reference systems. ISO Codes.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	
11	21	TEST 2. Drilling. Reaming.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	22	CNC's problems I				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	
12	23	CNC's problems II				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	24	CNC , Fix cycles.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	
13	25	CNC's problems. Deadline for the final works.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	26	CNC tool Tables. CAD-CAM. Parametric programation.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	

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14	27	Manufacturing of plastic elements. Injection molding.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	6.5
	28	Welding. Problems				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	
	29	Practice 4: Tool-machines CNC programming.				Pre-reading class topics and reviewing the related concepts discussed in previous classes.	1.66	3.25
Subtotal 1							48	94
Total 1 (Hours of class plus student homework)							142	
15		Tutorials, handing in, etc					3.6	-
16	17 18	Assessment					4	10
17								
18								
Subtotal 2							8	10
Total 2 (Hours of class plus student homework)							18	
TOTAL (Maximun 160 horas)							160	