

SUBJECT NAME: Machines technology

SUBJECT SCHEDULE

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DEGREE: Industrial Technologies Engineering

YEAR: 3°

QUARTER: 2°

GROUP CONTENT DESCRIPTION OF SESSION Indicate Indicate **STUDENT'S WORK DURING THE WEEK** YES/NO (Mark X) space BIG SMit's a WORKING necessary DESCRIPTION different session HOURS ALL classroom with 2 HOURS Week (inform professors PRESENT Maximum aula 7 H

					laboratory, etc)	(*)			7 11
1	1	Introduction. Strength of Materials.	х			NO	Remember and apply concepts of strength of materials	1,66	F
1	2	Fatigue Theory I		х		NO	Learn fatigue theories	1,66	5
2	3	Fatigue Theory II	х			NO	Apply fatigue theories	1,66	6
2	4	Fatigue Exercises I		х		NO	Do fatigue exercises	1,66	
3	5	Axle Theory	х			NO	Particularization of fatigue theories for axles	1,66	5
3	6	Fatigue Exercises II		х		NO	Do fatigue exercises	1,66	
4	7	Gear theory	х			NO	Learn fundamental concepts of gears	1,66	5
4	8	Fatigue Exercises III		х		NO	Do fatigue exercises	1,66	
5	9	Gear Failure theory	х			NO	Learn the main theories of the failure of gears.	1,66	5



5	10	Axle Exercises		х		NO	Do axle exercises.	1,66	
6	11	Tribology	х			NO	Fundamental concepts of tribology	1,66	5
6	12	PRACTICE (Axle Fatigue Exercises)		х	inform aula	NO	Practice of calculating axle fatigue.	1,66	
7	13	Lubrication theory	х			NO	Learn the main theories of lubrication	1,66	F
7	14	Lubrication Exercises		х		NO	Do lubrication exercises.	1,66	5
8	15	Theory of rolling bearings I	х			NO	Basic Rolling bearing concepts.	1,66	F
8	16	PRACTICE (Gear Failure)		х	inform aula	NO	Practice of calculating gear fatigue.	1,66	5
9	17	Theory of Rolling bearings II	х			NO	Rolling Bearing life calculation.	1,66	
9	18	Rolling bearing Exercises		х		NO	Bearing life calculation Exercises	1,66	6
10	19	Clutch theory	х			NO	Clutch parts, operation and design.	1,66	c .
10	20	Clutch Exercises		х		NO	Do clutch exercises.	1,66	б
11	21	Drum brakes	х			NO	Drum brake parts, operation and design.	1,66	_
11	22	PRACTICE (Clutch)		х	1.1.N04	NO	Practice: Clutch elements.	1,66	5
12	23	Drum brakes Exercises	х			NO	Do drum brakes exercises	1,66	5
12	24	PRACTICE (Springs)		х	1.0.C03	NO	Practice: Description of the fundamental concepts of springs and practical application	1,66	



13	25	Disc brakes	х			NO	Disc brake parts, operation and design.	1,66	c	
13	26	Disc brakes exercices		х		NO	Do disc brakes exercices	1,66	0	
14	27	Belts	х			NO	Fundamental concepts of belt drive and selection.	1,66	F	
14	28	Belts exercices		х		NO	Do belts exercices	1,66		
SUBTOTAL									46,5+75=120,5	
15		Resits, tutorials, work delivery, etc				NO				
16-		Evaluation preparation, Evaluation				NO			29,5	
18		· · · · · · · · · · · · · · · · · · ·							- , -	
TOTAL									150	

(*)The máximum number of sessions with 2 professors and/or experimental laboratories is 4.

WEEKLY PLANNING EXPERIMENTAL LABORATORIES*											
SE-	WE-	DESCRIPTION CONTENT OF SESSION LABORATORY EN EL STUDENT'S WORK DURING THE W									
SS- ION	EK	(The group is divided in two. In the schedule two sessions are scheduled in the lab indicated that week)	QUE SE REALIZAN LAS SESIONES	DESCRIPTION	HOURS PRESENT	WORKING HOURS Week Maximum 7 H					
1	6	Fatigue	inform aula	Practical calculations applying fatigue theory	1,5						
2	8	Gears	inform aula	Practical calculations applying gear failure theory	1,5						
3	9	Assembly and disassembly of speed reducer	1.1.N04	Assembly and disassembly of speed reducer							
4	11	Clutch practice	1.1.N04	Dismantling a clutch and learning the function of each element.	1,5	1,5					
5	12	Springs	1.0.C03	Description of the fundamental concepts of springs and practical application	1,5	1,5					
TOTAL											