



COURSE: Electrical Technology		
DEGREE: Ing. Tecnologías Industriales	YEAR: 3th.	SEMESTER: 1

WEEKLY PROGRAMMING FOR THE STUDENTS									
WEEK	SESIÓN	DESCRIPTION	GROUP		LABORATORY ROOM	MORE THAN ONE PROF.?	WEEKLY WORK FOR THE STUDENT		
			LARGE	SMALL			DESCRIPTION	CLASS HOURS	HOMEWORK
1	1	Organization of the electrical system: technical and economic structures.	X			NO		1.66	
1	2	Transformers.		X		NO		1.66	
2	3	Organization of the electrical system: generation, transmission and distribution.	X			NO	Reading of the corresponding chapters in the proposed literature.	1.66	7
2	4	Synchronous machines.		X		NO	Proposed exercises solving. Participation in discussions and debates.	1.66	
3	5	Load estimation.	X			NO	Proposed exercises solving. Participation in discussions and debates.	1.66	7
3	6	Per-unit representation.		X		NO	Reading of the corresponding chapters in the proposed literature.	1.66	

4	7	Alternating current transmission lines: characteristics and models.	X			NO	Reading of the corresponding chapters in the proposed literature.	1.66	7
4	8	Exercitations in per-unit calculations.		X		NO	Proposed exercises solving. Participation in discussions and debates.	1.66	
5	9	Direct current transmission lines: characteristics and models.	X			NO	Proposed exercises solving. Participation in discussions and debates. Reading of the laboratory guide for the next laboratory.	1.66	7
5	10	Laboratory 1			Lab.	NO	Reading of the corresponding chapters in the proposed literature.	1.66	
6	11	Short-circuit representation.	X			NO	Reading of the corresponding chapters in the proposed literature.	1.66	7
6	12	Problem resolutions on transmission lines.		X		NO	Proposed exercises solving. Participation in discussions and debates.	1.66	
7	13	Short-circuit calculations.	X			NO	Proposed exercises solving. Participation in discussions and debates.	1.66	7
7	14	Problem resolutions on direct current transmission lines.		X		NO	Proposed exercises solving. Participation in discussions and debates.	1.66	
8	15	Selection of electrical wires.	X			NO	Reading of the corresponding chapters in the proposed literature.	1.66	7
8	16	Short-circuit calculations.		X		NO	Proposed exercises solving. Participation in discussions and debates.	1.66	
9	17	Voltage drop calculations in special configurations.	X			NO	Reading of the laboratory guide for the next laboratory.	1.66	7
9	18	Laboratory 2.			Lab.	NO	Reading of the corresponding chapters in the proposed literature.	1.66	
10	19	Preliminaries about switchgears.	X			NO	Reading of the corresponding chapters in the proposed literature.	1.66	7
10	20	Problems of electrical wires selection.		X		NO	Proposed exercises solving. Participation in discussions and debates.	1.66	
11	21	Switchgears selection.	X			NO	Proposed exercises solving. Participation in discussions and debates.	1.66	7
11	22	Problems of electrical wires selection.		X		NO	Proposed exercises solving. Participation in discussions and debates.	1.66	
12	23	Introduction to the electrical protection systems.	X			NO	Reading of the corresponding chapters in the proposed literature. Reading of the laboratory guide for the next laboratory.	1.66	7

12	24	Laboratory 3.			Lab.	NO	Reading of the corresponding chapters in the proposed literature.	1.66	
13	25	Selection of electrical protection devices.	X			NO	Proposed exercises solving. Participation in discussions and debates.	1.66	7
13	26	Relays setting calculations.		X		NO	Proposed exercises solving. Participation in discussions and debates.	1.66	
14	27	Electrical risks, calculations.	X			NO	Reading of the corresponding chapters in the proposed literature.	1.66	7
14	28	Relays setting calculations.		X		NO	Proposed exercises solving. Participation in discussions and debates.	1.66	
14	29	Summary session.		X		NO	Proposed exercises solving. Participation in discussions and debates.	1.66	
Subtotal 1								48.14	91
Total 1								139.14	
15		Seminaries works.						7	
16		Preparation of the evaluations							
17									
18									30
Subtotal 2									30
Total 2								37	
								176.14	