



COURSE: STATISTICS

DEGREE: BACHERLOR IN AEROSPACE ENGINEERING

YEAR: 1

TERM: 1

*La asignatura tiene 29 sesiones que se distribuyen a lo largo de 14 semanas. Los laboratorios pueden situarse en cualquiera de ellas.
Semanalmente el alumnos tendrá dos sesiones, excepto en un caso que serán tres*

WEEKLY PLANNING

WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	Presentation, introduction to Probability	X				Study the main operations with events and their properties	1,67	2,5 +
1	2	Probability problems I		X			Solve elementary probability problems	1,67	2,5
2	3	Conditional Probability and Bayes Theorem	X				Study Laplace rule, definition of conditional probability, and Bayes Theorem	1,67	2,5 +
2	4	Probability problems II		X			Solve probability problems by means of the total probability rule and the Bayes Theorem	1,67	2,5
3	5	Introduction to random variables	X				Understand the concept of random variable	1,67	2,5 +
3	6	Problems on random variables		X			Solve problems alike to the ones solved during the lecture	1,67	2,5

4	7	Continuous random variables and transformations	X				Solve problems on transformations of random variables	1,67	2,5
4	8	Problems on random variables		X			Solve problems alike to the ones solved during the lecture	1,67	+ 2,5
5	9	Discrete probability models	X				Study the probability models from the lecture	1,67	2,5
5	10	Computer laboratory: introduction and descriptive statistics		X	X		Laboratory assignment	1,67	+ 5,5
6	11	Continuous probability models	X				Study the probability models from the lecture	1,67	2,5
6	12	Problems on continuous probability models		X			Solve problems alike to the ones solved during the lecture	1,67	+ 2,5
7	13	Central Limit Theorem and approximations	X				Study the CLT and approximations	1,67	2,5
7	14	Problems on probability models		X			Solve problems about continuous and discrete probability models	1,67	+ 2,5
8	15	Continuous evaluations	X				Study for continuous evaluation	1,67	9
8	16	Problems on estimators and Confidence Intervals		X			Compute Confidence Intervals	1,67	+ 2,5
9	17	Hypothesis Tests	X				Study statistical hypothesis tests	1,67	2,5
9	18	Computer laboratory: probability models, simulation and inference		X	X		Laboratory assignment	1,67	+ 5,5
10	19	Variables control charts	X				Study variables control charts	1,67	2,5
10	20	Problems on quality control		X			Solve problems on variables control charts	1,67	+ 2,5
11	21	Attributes control charts	X				Study attributes control charts	1,67	2,5
11	22	Computer laboratory: quality control		X			Laboratory assignment	1,67	+ 2,5
12	23	Simple linear regression	X				Study simple linear regression	1,67	2,5
12	24	Problems on simple linear regression		X	X		Solve problems on simple linear regression	1,67	+ 5,5
13	25	Multiple linear regression	X				Study multiple linear regression	1,67	2,5
13	26	Problems on multiple linear regression		X			Solve problems on multiple linear regression	1,67	+ 2,5
14	27	Continuous evaluation	X				Study for continuous evaluation	1,67	9
14	28	Computer laboratory: linear regression		X	X		Laboratory assignment	1,67	+ 5,5
8	29	Distributions at sampling and Confidence Intervals	X				Study the most relevant estimators and the theory concerning Confidence Intervals	1,67	2,5

							Subtotal 1	48,33	97,5
							Total 1 (Hours of class plus student homework hours between weeks 1-14)		145,83

15		Tutorials, handing in, etc						6,5	
16		Assessment						3	
17									15
18									

							Subtotal 2	3	18
							Total 2 (Hours of class plus student homework hours between weeks 15-18)		24,5

TOTAL (Total 1 + Total 2. <u>Maximum 180 hours</u>)									
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