uc3m | Universidad Carlos III de Madrid
Vicerrectorado de Estudios
Apoyo a la docencia y gestión del grado

COURSE: Probability and Statistics		
DEGREE: ENGINEERING PHYSICS	YEAR: 1	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		
			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Ch1. Presentation and Introduction.	X			Study the main contents of Chapter 1.	1.66	6.5
	2	Ch1. Problems.		X		Solve problems alike to the ones solved furing the lecture.	1.66	
2	3	Ch2. Theory: Probability I.	X			Study the main probability concepts	1.66	6.5
	4	Ch2. Probability problems I.		X		Solve problems alike to the ones solved during the lecture.	1.66	
3	5	Ch2. Theory: Probability II.	X			Study the total probability and bayes theorems	1.66	6.5
	6	Ch2. Probability problems II.		X		Solve problems alike to the ones solved during the lecture.	1.66	
4	7	Ch3. Theory: Univariate Statistics.	X			Study numerical summaries for univariate data	1.66	6.5
	8	Computer Laboratory I: Univariate Statistics		X	X	Laboratory assignment	1.66	
5	9	Ch4. Theory: Random Variables I.	X			Study probability distributions and charasteristic measures	1.66	6.5
	10	Ch4. Random Variables problems I.		X		Solve elementary random variable problems	1.66	
6	11	Ch4. Theory: Random Variables II.	X			Study transformations and examples	1.66	6.5
	12	Ch4. Random Variables problems II.		X		Solve problems alike to the ones solved during the lecture.	1.66	
7	13	Continuous evaluation.	X			Study for continuous evaluation	1.66	6.5
	14	Computer Laboratory II: Probability and Random Variables		X	X	Laboratory Assignment	1.66	
8	15	Ch5. Theory. Statistical Inference I	X			Study estimation and estimators properties	1.66	6.5
	16	Ch5. Statistical Inference Problems I.		X		Solve problems alike to the ones solved during the lecture.	1.66	
9	17	Ch5. Theory. Statistical Inference II	X			Study estimation techniques	1.66	6.5
	18	Ch5. Statistical Inference Problems II.		X		Solve problems alike to the ones solved during the lecture	1.66	
10	19	Ch6. Theory: Confidence Intervals I	X			Study the properties of confidence intervals for one population	1.66	6.5
	20	Ch6. Confidence Intervals Problems I		X		Solve problems alike to the ones solved during the lecture	1.66	
11	21	Ch6. Confidence Intervals Problems II + Ch 7. Theory Hypothesis Testing I	X			Study the properties of confidence intervals for two populations and introduce hypothesis testing	1.66	6.5
	22	Ch7. Hypothesis Testing Problems I		X		Solve problems alike to the ones solved during the lecture	1.66	
12	23	Ch7. Theory. Hypothesis Testing II	X			Study error types, p-value and power of a test	1.66	6.5
	24	Computer Laboratory III: Statistical Inference		X	X	Laboratory assignment	1.66	
13	25	Ch8. Theory: Goodness of Fit tests	X			Study the main goodness of fit tests	1.66	6.5
	26	Ch8. Goodness of fit test Problems I		X		Solve problems alike to the ones solved during the lecture	1.66	
14	27	Continuous evaluation	X			Study for continuous evaluation	1.66	6.5
	28	Computer Laboratory IV: Goodness of fit tests.		X	X	Laboratory assignment	1.66	
	29	Ch8. Goodness of fit test problems II				Solve problems alike to the ones solved during the lecture	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		Assessment					4	10
17								
18								
						Subtotal 2	**8**	**10**
						Total 2 *(Hours of class plus student homework)*	**18**	

TOTAL (*Maximun 160 horas*)	**160**