Universidad Carlos III de Madrid

COURSE (6 CREDITS): PHYSICS II

DEGREE: GRADO EN INGENIERÍA EN TECNOLOGÍAS INDUSTRIALES | **YEAR: 1st** | **SEMESTER: 2nd**

PLANIFICACIÓN SEMANAL DE LA ASIGNATURA

WEEK	SESSION	DESCRIPTION	GROUP (mark with X)		Special session (audiovisual room, computer room, etc.)	Two teachers' session (YES/NO)	WEEKLY PROGRAMMING FOR THE STUDENT		
			LECTURES	PRACTICAL SESSION			DESCRIPCTION	CLASS HOURS	HOMEWORK HOURS (Max. 7 h/week)
1	1	1 - Coulomb's Law	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	2			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	
2	3	2 - Gauss's Law (I)	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	4			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	
3	5	2 - Gauss's Law (II)	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	6			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	
4	7	3 – Electric potential	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	8			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	
5	9	4 - Electric field in materials: Conductors	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	10			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	

6	11	5 - Electric field in materials: Dielectric Materia	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	12			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	
7	13	6 - Electric Current	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	14			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	
8	15	7 - The Magnetic Field. Magnetic forces	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	16			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	
9	17	8 - Magnetic field sources (I)	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	18			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	
10	19	8 - Magnetic field sources (II)	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	20			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	
11	21	9 - Electromagnetic Induction. (I)	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	22			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	
12	23	9 - Electromagnetic Induction. (II)	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
	24			x		NO	Proposed exercises solving, exposition of projects, participation in discussions and debates	1.67	
13	25	10 - Electromagnetic Induction. Maxwell's Equations (III) Summary and tutorial sesion	x			NO	-Reading of the corresponding chapters in the proposed literature, Study and personal work on the lecture	1.67	7
		4 additional Lab sessions (100 minutes each). A specific schedule will be published.						6.67	
							Subtotal 1	48.35	91
							Total 1	**139.35**	

		Final Exam and preparation						3.65	7
							Subtotal 2	3.65	7
							Total 2	**10.65**	
							TOTAL (Total 1 + Total 2)	***150.00***	