Vicerrectorado de Estudios Apoyo a la docencia y gestión del grado

COURSE: CALCULUS II

DEGREE: INDUSTRIAL TECHNOLOGIES ENGINEERING YEAR: FIRST TERM: SECOND

WEEKLY PLANNING								
W E E K	S E S S I O N	DESCRIPTION	TEACHING (mark X)			WEEKLY PROGRAMMING FOR STUDENT		
			L E C T U R E S	S E M I N A R S	SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	CHAPTER I: THE R^N SPACE, TOPOLOGICAL STRUCTURE, MULTIVARIATE FUNCTIONS: LEVEL SETS	Х				1,66	6,5
	2	DISCUSSION AND SOLUTION OF PROBLEMS		Χ			1,66	
2	3	LIMITS AND CONTINUITY OF MULTIVARIATE FUNCTIONS	Х				1,66	6,5
	4	DISCUSSION AND RESOLUTION OF PROBLEMS		Χ			1,66	
3	5	DIFFERENTIABILITY AND PARTIAL DERIVATIVES, JACOBIAN MATRIX AND GRADIENT VECTOR	Х				1,66	6,5
	6	DISCUSSION AND RESOLUTION OF PROBLEMS		Χ			1,66	
4	7	CHAIN RULE, DIRECTIONAL DERIVATIVES, DIFFERENTIAL OPERATORS	Х				1,66	6,5
	8	DISCUSSION AND RESOLUTION OF PROBLEMS		Χ			1,66	
5	9	CHAPTER II: HESSIAN MATRIX, LOCAL EXTREMA	Х				1,66	6,5
,	10	DISCUSSION AND RESOLUTION OF PROBLEMS		Х			1,66	
6	11	CONSTRAINED EXTREMA, LAGRANGE MULTIPLIERS, GLOBAL EXTREMA	Х				1,66	6,5
	12	DISCUSSION AND RESOLUTION OF PROBLEMS		Χ			1,66	

	WEEKLY PLANNING										
	S E S S I O N	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM	WEEKLY PROGRAMMING FOR STUDENT					
W E E K			L E C T U R E S	S E M I N A R	FOR SESSION (Computer class room, audio-visual class room)	DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)			
	13	CHAPTER III: INTEGRALS ON R^N.	Х				1,66	6,5			
7	13	FIRST PARTIAL EVALUATION	_ ^				1,00				
		DISCUSSION AND RESOLUTION OF PROBLEMS		Χ			1,66				
8		ITERATIVE INTEGRATION, FUBINI'S THEOREM, APPLICATIONS	Χ				1,66	6,5			
		DISCUSSION AND RESOLUTION OF PROBLEMS		Х			1,66				
9	1 / 1	CHANGE OF VARIABLES, POLAR, CYLINDRICAL AND SPHERICAL COORDINATES	Х				1,66	6,5			
	18	DISCUSSION AND RESOLUTION OF PROBLEMS		Χ			1,66				
10	19	APPLICATIONS OF THE INTEGRAL	Χ				1,66	6,5			
10	20	DISCUSSION AND RESOLUTION OF PROBLEMS		Χ			1,66				
11	21	CHAPTER IV: LINE INTEGRALS, CONSERVATIVE FIELDS	Χ				1,66	6,5			
	22	DISCUSSION AND RESOLUTION OF PROBLEMS		Х			1,66				
12		SURFACE INTEGRALS	Χ				1,66	6,5			
	24	DISCUSSION AND RESOLUTION OF PROBLEMS		Х			1,66				
13		GREEN THEOREM	Χ				1,66	6,5			
		DISCUSSION AND RESOLUTION OF PROBLEMS		Х			1,66	0,0			
14		GAUSS AND STOKES THEOREMS	Х				1,66	6,5			
	28	DISCUSSION AND RESOLUTION OF PROBLEMS		Х			1,66				
	29	Additional session. SECOND PARTIAL EVALUATION	Х				1,66	3,25			
-	Subtotal 1							94			
		Total 1 (Hours of class plus student homework)						12			
15	E Tutorials handing in etc						-				
13		Tutorials, handing in, etc	Х				3,6	_			

Assessment

WEEKLY PLANNING									
	S	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM	WEEKLY PROGRAMMING FOR STUDENT			
W E E K	E S I O N		L E C T U R E S	S E M I N A R	FOR SESSION (Computer class room, audio-visual class room)	DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)	
18									
	Subtotal 2							10	
	Total 2 (Hours of class plus student homework)						1	.8	
TOTAL (Maximun 160 horas)						160			