

COURSE: Big Data and Business Analytics		
DEGREE: Business and Technology	YEAR: 3	TERM: 1

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (computer classroom, audio visual classroom...)	WEEKLY PROGRAMMING FOR STUDENT		
			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. Estim. 6.5h)
1	1	Introduction		X		· Reading the teaching guide	1.5	2
	2	Topic 1: Introduction to Business Intelligence, Analytics and Big Data	X			· Assimilation of concepts taught	1.5	
2	3	Practice Session 1: Introduction to Python		X		· Assimilation of concepts taught · Formation of practice groups	1.5	6.5
	4	Topic 2: Technologies for decision making	X			· Assimilation of concepts taught	1.5	
3	5	Practice Session 2: Introduction to Pandas (Python for Data Science)		X		· Assimilation of concepts taught	1.5	6.5
	6	Topic 3: Descriptive analytics · Data warehouses · Business reports and visual analytics	X			· Assimilation of concepts taught	1.5	
4	7	Practice Session 3: Data files in Python		X		· Assimilation of concepts taught	1.5	6.5
	8	Topic 3: Descriptive analytics · Business reporting and visual analytics · Business performance management	X			· Assimilation of concepts taught	1.5	
5	9	Practice Session 4: Descriptive analytics and visualization in Python		X		· Assimilation of concepts taught	1.5	6.5
	10	Presentation of Practice 1 (Descriptive Analytics)	X			· Assimilation of concepts taught · Group work in practice 1	1.5	
6	11	Practice Session 5: Resolution of doubts of Practice 1		X		· Assimilation of concepts taught · Group work in practice 1	1.5	6.5
	12	Topic 4: Predictive analytics and data mining · Decision trees	X			· Assimilation of concepts taught · Group work in practice 1	1.5	
7	13	Practice Session 6: Decision Trees with Scikit-Learn		X		· Assimilation of concepts taught · Group work in practice 1	1.5	6.5
	14	Topic 4: Predictive analytics and data mining · Neuron networks · Deep learning	X			· Assimilation of concepts taught · Group work in practice 1	1.5	
8	15	Delivery and Defense of Practice 1		X		· Assimilation of concepts taught	1.5	6.5
	16	Presentation of Practice 2 (Predictive Analytics)	X			· Assimilation of concepts taught · Individual work in practice 2	1.5	
9	17	Practice Session 7: Deep learning with Python and Practice 2 Questions		X		· Assimilation of concepts taught · Group work in practice 2	1.5	6.5
	18	Topic 5: Prescriptive analytics · Model-based decision making · Expert systems and business rules management	X			· Assimilation of concepts taught · Group work in practice 2	1.5	
10	19	Practice Session 8: Expert systems		X		· Assimilation of concepts taught · Group work in practice 2	1.5	6.5
	20	Topic 5: Prescriptive analytics · Knowledge management and collaborative systems	X			· Assimilation of concepts taught · Group work in practice 2	1.5	
11	21	Delivery and Defense of Practice 2		X		· Assimilation of concepts taught	1.5	6.5
	22	Topic 6: Big Data and Analytics (Part I)	X			· Assimilation of concepts taught	1.5	
12	23	Practice Session 8: Presentation of the final practice		X		· Assimilation of concepts taught · Group work in the final practice	1.5	6.5
	24	Topic 6: Big Data and Analytics (Part II)	X			· Assimilation of concepts taught · Group work in the final practice	1.5	
13	25	Practice Session 9: Work and resolution of doubts in the final practice		X		· Assimilation of concepts taught · Group work in the final practice	1.5	6.5
	26	Topic 7: Emerging trends and impact of business analytics	X			· Assimilation of concepts taught · Group work in the final practice	1.5	
14	27	Practice Session 10: Work and resolution of doubts in the final practice		X		· Assimilation of concepts taught · Group work in the final practice	1.5	6.5
	28	Review of the subject	X			· Assimilation of concepts taught · Group work in the final practice	1.5	
Subtotal 1							42	86.5
Total 1 (Hours of class plus student homework)							128.5	
15	Tutorials, handing in, etc						3.6	-
17	Assessment						3	10
18								
Subtotal 2							6.6	10
Total 2 (Hours of class plus student homework)							17	
TOTAL (Maximum 150 hours)							145	