



<b>SUBJECT NAME: Internet Architecture</b>		
<b>DEGREE IN: TELEMATICS / TELECOMMUNICATION TECHNOLOGIES/ MOBILE AND SPATIAL COMMUNICATION SYSTEMS / SOUND AND IMAGE</b>	<b>COURSE: 4</b>	<b>PERIOD: 2º</b>

<b>WEEKLY PLANNING</b>									
WEEK	SESSION	CONTENT DESCRIPTION	GROUP		Room	Session with two teachers	WEEKLY STUDENT ASSIGNMENT		
			AGGR	DEAGGR			DESCRIPCIÓN	FACE-TO-FACE HOURS	TOTAL HOURS (max 7h per week)
1	1	Introduction to the course. Interdomain routing.	X			NO	Do 'IPv4 review' practice with CORE emulation environment	2	4
2	2	Internet business model, pricing and relationships.		X		NO	Do 'Quagga introduction' practice with CORE emulation environment. Read [BGP], pps. 1-26, (reference [BGP] = 'BGP', Iljitsch van Beijnum, O'Reilly) Study 'RIRs and resource assignment' material	2	4
3	3	Introduction to Python	X			NO	Study python	2	3
4	4	Pandas		X		NO	Read ch 4 [PTDS] ([PTDS]=Principles and Techniques of Data Science, Sam Lau, Joey Gonzalez, Deb Nolan. <a href="https://www.textbook.ds100.org/">https://www.textbook.ds100.org/</a> )	2	5
5	5	CDNs. Public and private addresses.	X			NO	Read pps 61-74 [BGP]	2	5
6	6	<b>Lab:</b> BGP route processing with pandas		X	4.1B01/4.1B02 (7.0J02/7.0J03)	NO	Study pandas	2	4
7	7	Address Market	X			NO	Study CDN and 'cloud computing' material	2	4
8	8	<b>Lab:</b> Analyze connectivity with top-50 most popular web sites		X	4.1B01/4.1B02 (7.0J02/7.0J03)	NO	Study pandas	2	4
9	9	<b>Partial exam, BGP networks</b> Private addressing. Tunnels	X			NO	Prepare for exam	2	3
10	10	Private addressing, NATs		X		NO	Study 'address market' material	2	3
11	11	Private addressing, NATs	X			NO	Study 'problems with NAT' and 'CGNs' material	2	3
12	12	<b>Lab:</b> NAT configuration		X	4.1B01/4.1B02 (7.0J02/7.0J03)	SI	Knowledge elaboration from experience. Solve NAT exercises	2	5
13	13	<b>Partial exam, IPv4 addressing</b>	X			NO	Read RFC 4291: 'IP Version 6 Addressing Architecture'	2	5

		IPv6 addressing							
14	14	IPv6 addressing		X		NO	Solve address assignment exercises	2	5
<b>SUBTOTAL</b>								<b>28</b>	<b>+ 57 = 85</b>
15-18		Preparation for evaluation, evaluation						3	
<b>TOTAL</b>								<b>88</b>	