

COURSE: Telecommunication Systems		
DEGREE: Communication Technologies	YEAR: 4th	TERM: 1st

La asignatura tiene 25 sesiones que se distribuyen a lo largo de 14 semanas. En cuatro de ellas habrá dos profesores

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	WEEKLY PLANNING									
WEEK	SESSION	GROUPS (mark X) N DESCRIPTION	SPECIAL ROOM FOR SESSION (Computer class room,	ROOM FOR SESSION (Computer class room (Computer session	WEEKEI TROGRAMMING TOR STOSENT					
			LECTURES	SEMINARS	audio-visual class room)	needs 2 teachers	DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)	
1	1	<ul> <li>Introduction to the subject</li> <li>Lesson 1: <ul> <li>Systems</li> <li>Communications Networks</li> <li>Regulation</li> </ul> </li> </ul>	x				- Review topics from other former subjects:  - Medium Access  - Multiplexing  - Networking  - To assimilate the concepts presented in class	1,66		
1	2	- Lesson 2:  O Queuing Theory O Birth and Dead processes O M/M/1 Model	х				- To assimilate concepts presented in class - To solve by themselves Proposed assignments	1,66	3	

2	3	<ul> <li>Lesson 2:</li> <li>M/M/c Model</li> <li>M/M/c/c Model</li> <li>Circuit Switching and Packet Switching</li> </ul>	X		To assimilate concepts presented in class  - To solve by themselves Proposed assignments	1,66	5
2	4	<ul> <li>Lesson 2:         <ul> <li>Telephony Network</li> <li>Intelligent Network</li> </ul> </li> </ul>	х		To assimilate concepts presented in class - To solve by themselves Proposed assignments	1,66	
3	5	<ul> <li>Lesson 2:         <ul> <li>Packet transmission</li> <li>Mutiple Access Methods</li> </ul> </li> </ul>	х		To assimilate concepts presented in class - To solve by themselves Proposed assignments	1,66	5
3	6	<ul> <li>Lesson 2:         <ul> <li>Proposed assignments</li> </ul> </li> </ul>		x	To assimilate concepts presented in class - To solve by themselves Proposed assignments	1,66	
4	7	<ul> <li>Lesson 2:         <ul> <li>Proposed Assignments</li> </ul> </li> </ul>		x	To assimilate concepts presented in class - To solve by themselves Proposed assignments	1,66	5
4	8	Depending on the class roadmap and path it could be: Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session 1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the resolution of the intermediate exam or extra assignment resolution class. Please see the table at the end of this document. You will be informed during the course with enough time.	It will depend on the session		It will depend o the session. Please see the table at the end of the document.	1,66	
5	9	Depending on the class roadmap and path it could be: Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session 1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the resolution of the intermediate exam or extra assignment resolution class. Please see the table at the end of this document. You will be informed during the course with enough time.	It will depend on the session		It will depend o the session. Please see the table at the end of the document.	1,66	5
5	10	Depending on the class roadmap and path it could be: Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session 1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the resolution of the intermediate exam or extra assignment resolution class. Please see the table at the end of this document. You will be informed during the course with enough time.	It will depend on the session		It will depend o the session. Please see the table at the end of the document.	1,66	
6	11	Depending on the class roadmap and path it could be: Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session 1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the resolution of the intermediate exam or extra assignment			It will depend o the session. Please see the table at the end of the document.	1,66	5

	1	and the deep New and health at the collection of the				1
		resolution class. Please see the table at the end of this				
		document. You will be informed during the course with				
	<del>                                     </del>	enough time.				_
		Depending on the class roadmap and path it could be:		It will depend o the session. Please see the table at the		
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		end of the document.		
_		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the				
6	12	resolution of the intermediate exam or extra assignment	It will		1,66	
		resolution class. Please see the table at the end of this	depend			
		document. You will be informed during the course with	on the			
		enough time.	session			
		Depending on the class roadmap and path it could be:		It will depend o the session. Please see the table at the		5
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		end of the document.		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the				
7	13	resolution of the intermediate exam or extra assignment	It will		1,66	
		resolution class. Please see the table at the end of this	depend			
		document. You will be informed during the course with	on the			
		enough time.	session			
		Depending on the class roadmap and path it could be:		It will depend o the session. Please see the table at the		
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		end of the document.		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the				
7	14	resolution of the intermediate exam or extra assignment	It will		1,66	
		resolution class. Please see the table at the end of this	depend			
		document. You will be informed during the course with	on the			
		enough time.	session			
		Depending on the class roadmap and path it could be:		It will depend o the session. Please see the table at the		5
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		end of the document.		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the				
8	15	resolution of the intermediate exam or extra assignment	It will		1,66	
		resolution class. Please see the table at the end of this	depend			
		document. You will be informed during the course with	on the			
		enough time.	session			
		Depending on the class roadmap and path it could be:		It will depend o the session. Please see the table at the		
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		end of the document.		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the				
8	16	resolution of the intermediate exam or extra assignment	It will		1,66	
		resolution class. Please see the table at the end of this	depend			
		document. You will be informed during the course with	on the			
		enough time.	session			
		Depending on the class roadmap and path it could be:		It will depend o the session. Please see the table at the		5
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		end of the document.		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the				
9	17	resolution of the intermediate exam or extra assignment	It will		1,66	
		resolution class. Please see the table at the end of this	depend			
		document. You will be informed during the course with	on the			
		enough time.	session			
		Depending on the class roadmap and path it could be:	It will	It will depend o the session. Please see the table at the		
1 .	1	Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		·		1
9	18	intermediate Exam, Lesson 5. Session 1 - 4, Lesson 4. Session	denend	end of the document.	1.66	
9	18	1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the	depend on the	end of the document.	1,66	

		resolution of the intermediate exam or extra assignment	session			٦
		resolution class. Please see the table at the end of this				
		document. You will be informed during the course with enough time.				
		Depending on the class roadmap and path it could be:		It will depend o the session. Please see the table at the		5
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		end of the document.		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the				
10	19	resolution of the intermediate exam or extra assignment	It will		1,66	
		resolution class. Please see the table at the end of this	depend			
		document. You will be informed during the course with	on the			
		enough time.  Depending on the class roadmap and path it could be:	session	It will depend o the session. Please see the table at the		
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		· · · · · · · · · · · · · · · · · · ·		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the		end of the document.		
10	20	resolution of the intermediate exam or extra assignment	It will		1,66	
10	20	resolution class. Please see the table at the end of this	depend		1,00	
		document. You will be informed during the course with	on the			
		enough time.	session			
		Depending on the class roadmap and path it could be:		It will depend o the session. Please see the table at the		5
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		end of the document.		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the				
11	21	resolution of the intermediate exam or extra assignment	It will		1,66	
		resolution class. Please see the table at the end of this	depend			
		document. You will be informed during the course with	on the			
		enough time.	session			
		Depending on the class roadmap and path it could be:		It will depend o the session. Please see the table at the		
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session 1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the		end of the document.		
11	22	resolution of the intermediate exam or extra assignment	It will		1,66	
11	22	resolution class. Please see the table at the end of this	depend		1,00	
		document. You will be informed during the course with	on the			
		enough time.	session			
		Depending on the class roadmap and path it could be:		It will depend o the session. Please see the table at the		5
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		end of the document.		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the				
12	23	resolution of the intermediate exam or extra assignment	It will		1,66	
		resolution class. Please see the table at the end of this	depend			
		document. You will be informed during the course with	on the			
		enough time.	session			
		Depending on the class roadmap and path it could be:		It will depend o the session. Please see the table at the		
		Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		end of the document.		
12	24	1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the	It will		1 66	
12	24	resolution of the intermediate exam or extra assignment resolution class. Please see the table at the end of this	depend		1,66	
		document. You will be informed during the course with	on the			
		enough time.	session			
		Depending on the class roadmap and path it could be:	32331011	It will depend o the session. Please see the table at the		5
13	25	Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session		it is appeared a time desired and the tubic at the	1.66	
	7.3	, 2000. 1. 900.01	1		-,00	1

		1-0, Lesson 5. Session 1 - 0, Lesson 6. Session		) i tile				end of the document.		
		resolution of the intermediate exam or extra resolution class. Please see the table at the	•	session						
		document. You will be informed during the								
		enough time.	course with							
		Depending on the class roadmap and path it	t could be:					It will depend o the session. Please see the table at the		
		Intermediate Exam, Lesson 3: Session 1 - 4, I						end of the document.		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session	n 1-2, the							
L3	26	resolution of the intermediate exam or extra	a assignment	It will					1,66	
		resolution class. Please see the table at the e	end of this	depend						
		document. You will be informed during the o		on the						
		enough time.		session						
		Depending on the class roadmap and path it						It will depend o the session. Please see the table at the		5
		Intermediate Exam, Lesson 3: Session 1 - 4, I						end of the document.		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session	•						4.66	
4	27	resolution of the intermediate exam or extra	-	It will					1,66	
		resolution class. Please see the table at the		depend						
		document. You will be informed during the		on the						
		enough time.  Depending on the class roadmap and path it		session				It will depend o the session. Please see the table at the		
		Intermediate Exam, Lesson 3: Session 1 - 4, I						•		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session						end of the document.		
4	28	resolution of the intermediate exam or extra	,	It will					1,66	
•	20	resolution class. Please see the table at the		depend					1,00	5
		document. You will be informed during the		on the						
		enough time.		session						
		Depending on the class roadmap and path it	t could be:					It will depend o the session. Please see the table at the		
		Intermediate Exam, Lesson 3: Session 1 - 4, I	Lesson 4: Session					end of the document.		
		1-6, Lesson 5: Session 1 - 6, Lesson 6: Session	n 1-2, the							
	29	resolution of the intermediate exam, extra a	assignment	It will					1,66	
		resolution class or even the resolution of the		depend						
		exam. Please see the table at the end of this		on the						
		will be informed during the course with eno-	ough time.	session						
		_						Subtotal 1	48,14	73
Total 1 (Hours of class plus student homework hours between weeks 1-14)				12	21,14					
				1		ı		,	T	
5		Tutorials, handing in, etc								_
6										
7		Assessment						Studying the subject for the final exam	3	
8										50
								Subtotal 2	3	
			Total 2 (Hours o	f class pl	us studen	t homework	hours betw	veen weeks 15-18)		53
		L	· · · · · ·					,		

end of the document.

on the

1-6, Lesson 5: Session 1 - 6, Lesson 6: Session 1-2, the

TOTAL (Total 1 + Total 2) 174,14

## **SESSION TABLE AND FURTHER INFORMATION**

SESSION			WEEKLY PROGRAMMING FOR STUDENT
	LECTURES	SEMINAR	
<ul> <li>Lesson 3: Session 1</li> <li>Introduction</li> <li>SDH</li> </ul>			To assimilate concepts presented in class  - To solve by themselves Proposed assignments
o (D)WDM	х		
<ul><li>Lesson 3: Session 2</li><li>(D)WDM</li><li>xDSL</li></ul>			- To assimilate concepts presented in class - To solve by themselves Proposed assignments
NDSL	x		- 10 solve by themselves Proposed assignments
<ul> <li>Lesson 3: Session 3</li> <li>Proposed Assignments</li> </ul>			- To assimilate concepts presented in class
		х	- To solve by themselves Proposed assignments
<ul> <li>Lesson 3: Session 4</li> <li>Proposed Assignments</li> </ul>			- To assimilate concepts presented in class
		х	- To solve by themselves Proposed assignments
<ul> <li>Lesson 4: Session 1</li> <li>Propagation review</li> </ul>			- To assimilate concepts presented in class
<ul><li>Okumura-Hata Model</li><li>PMR and PMT Systems</li></ul>	X		- To solve by themselves Proposed assignments
Lesson 4: Session 2     Trunking			- To assimilate concepts presented in class
<ul><li>TETRA</li><li>Cellular systems</li></ul>	x		- To solve by themselves Proposed assignments
Lesson 4: Session 3			To assimilate concepts presented in class
o GSM System	x		- To solve by themselves Proposed assignments
Lesson 4: Session 4			- To assimilate concepts presented in class
o GPRS o EDGE	x		- To solve by themselves Proposed assignments

	o UMTS			
	o HSDPA			
-	Lance A Conda E			To essimilate comments associated in alcoh
•	Lesson 4: Session 5			To assimilate concepts presented in class
	<ul> <li>Proposed assignments</li> </ul>			- To solve by themselves Proposed assignments
	o Troposed assignments		.,	
			Х	
•	Lesson 4: Session 6			- To assimilate concepts presented in class
	a Dronged assignments			- To solve by themselves Proposed assignments
	<ul> <li>Proposed assignments</li> </ul>			- To solve by themselves Proposed assignments
			X	
•	Lesson 5: Session 1			- To assimilate concepts presented in class
	20000110110000101112			
	<ul> <li>Introduction</li> </ul>			- To solve by themselves Proposed assignments
	<ul> <li>History</li> </ul>			
1	<ul> <li>General concepts and orbits</li> </ul>			
	General concepts and orbits			
		Х		
•	Lesson 5: Session 2			- To assimilate concepts presented in class
	o Fix Service			
	o VSAT networks			To solve by themselves Draness descious atta
	O VSAT HELWOIKS			- To solve by themselves Proposed assignments
		Х		
•	Lesson 5: Session 3			- To assimilate concepts presented in class
				To assimilate concepts presented in class
	<ul> <li>Satellite Mobile Communications</li> </ul>			
				- To solve by themselves Proposed assignments
		x		
_	Lanca E. Cassian A	1		To assimilate consents presented in class
•	Lesson 5: Session 4			- To assimilate concepts presented in class
	<ul> <li>Positioning Systems</li> </ul>			
				- To solve by themselves Proposed assignments
				, , , , , , , , , , , , , , , , , , ,
<u> </u>		Х	+	
•	Lesson 5: Session 5			- To assimilate concepts presented in class
1	<ul> <li>Proposed assignments</li> </ul>			
	. 5			- To solve by themselves Proposed assignments
1				- 10 solve by themselves rioposed assignments
			Х	
-	Lesson 5: Session 6			To assimilate concepts presented in class
1	<ul> <li>Proposed assignments</li> </ul>			' '
	5 Troposed assignments			
1				- To solve by themselves Proposed assignments
			Х	
_	Lesson 6: Session 1	1	1	- To assimilate concepts presented in class
1	LESSUII O. JESSIUII I			To assimilate concepts presented in class
	<ul> <li>Boradcasting Digital System</li> </ul>			
	MPEG Standard	х		
_		+	+	To assimilate consents presented in class
•	Lesson 6: Session 2			To assimilate concepts presented in class
1	<ul> <li>DVB Standard</li> </ul>	x		
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 '	1	

o Interactivity			
INTERMEDIATE EXAM			- To analyze the assignments found during the intermediate exam
	x		
Extra assignments session			To assimilate concepts presented in class
			- To solve by themselves Proposed assignments
		х	