



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

WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	<ul style="list-style-type: none"> - Introduction to the subject - Lesson 1: <ul style="list-style-type: none"> o Systems o Communications Networks o Regulation 	X				<ul style="list-style-type: none"> - Review topics from other former subjects: <ul style="list-style-type: none"> - Medium Access - Multiplexing - Networking - To assimilate the concepts presented in class 	1,66	3
1	2	<ul style="list-style-type: none"> - Lesson 2: <ul style="list-style-type: none"> o Queuing Theory o Birth and Dead processes o M/M/1 Model 	X				<ul style="list-style-type: none"> - To assimilate concepts presented in class - To solve by themselves Proposed assignments 	1,66	

2	3	<ul style="list-style-type: none"> - Lesson 2: <ul style="list-style-type: none"> o M/M/c Model o M/M/c/c Model o Circuit Switching and Packet Switching 	X					To assimilate concepts presented in class - To solve by themselves Proposed assignments	1,66	5
2	4	<ul style="list-style-type: none"> • Lesson 2: <ul style="list-style-type: none"> o Telephony Network o Intelligent Network 	X					To assimilate concepts presented in class - To solve by themselves Proposed assignments	1,66	
3	5	<ul style="list-style-type: none"> • Lesson 2: <ul style="list-style-type: none"> o Packet transmission o Multiple Access Methods 	X					To assimilate concepts presented in class - To solve by themselves Proposed assignments	1,66	5
3	6	<ul style="list-style-type: none"> • Lesson 2: <ul style="list-style-type: none"> o Proposed assignments 					X	To assimilate concepts presented in class - To solve by themselves Proposed assignments	1,66	
4	7	<ul style="list-style-type: none"> • Lesson 2: <ul style="list-style-type: none"> o Proposed Assignments 					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 on 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 on 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 on 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 on the session. Please see the table at the end of the document.	1,66	5

It will depend on the session

		resolution class. Please see the table at the end of this document. You will be informed during the course with enough time.								
6	12	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	
7	13	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
7	14	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	
8	15	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
8	16	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	
9	17	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	18	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	It will depend on the					It will depend o the session. Please see the table at the end of the document.	1,66	

		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.	session						
10	19	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
10	20	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	
11	21	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
11	22	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	
12	23	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
12	24	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	
13	25	Depending on the class roadmap and path it could be: Intermediate Exam, Lesson 3: Session 1 - 4, Lesson 4: Session					It will depend o the session. Please see the table at the	1,66	5

It will depend

		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.	on the session				end of the document.		
13	26	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	
14	27	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
14	28	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
	29	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, extra assignment resolution class or even the resolution of the former final exam. 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	

Subtotal 1 **48,14** **73**

Total 1 (Hours of class plus student homework hours between weeks 1-14)	121,14
--	---------------

15		Tutorials, handing in, etc							
16		Assessment					Studying the subject for the final exam	3	50
17									
18									

Subtotal 2 **3** **50**

Total 2 (Hours of class plus student homework hours between weeks 15-18)	53
---	-----------

SESSION TABLE AND FURTHER INFORMATION

SESSION	LECTURES	SEMINAR	WEEKLY PROGRAMMING FOR STUDENT
<ul style="list-style-type: none"> • Lesson 3: Session 1 <ul style="list-style-type: none"> ○ Introduction ○ SDH ○ (D)WDM 	X		To assimilate concepts presented in class - To solve by themselves Proposed assignments
<ul style="list-style-type: none"> • Lesson 3: Session 2 <ul style="list-style-type: none"> ○ (D)WDM ○ xDSL 	X		- To assimilate concepts presented in class - To solve by themselves Proposed assignments
<ul style="list-style-type: none"> • Lesson 3: Session 3 <ul style="list-style-type: none"> ○ Proposed Assignments 		X	- To assimilate concepts presented in class - To solve by themselves Proposed assignments
<ul style="list-style-type: none"> • Lesson 3: Session 4 <ul style="list-style-type: none"> ○ Proposed Assignments 		X	- To assimilate concepts presented in class - To solve by themselves Proposed assignments
<ul style="list-style-type: none"> • Lesson 4: Session 1 <ul style="list-style-type: none"> ○ Propagation review ○ Okumura-Hata Model ○ PMR and PMT Systems 	X		- To assimilate concepts presented in class - To solve by themselves Proposed assignments
<ul style="list-style-type: none"> • Lesson 4: Session 2 <ul style="list-style-type: none"> ○ Trunking ○ TETRA ○ Cellular systems 	X		- To assimilate concepts presented in class - To solve by themselves Proposed assignments
<ul style="list-style-type: none"> • Lesson 4: Session 3 <ul style="list-style-type: none"> ○ GSM System 	X		To assimilate concepts presented in class - To solve by themselves Proposed assignments
<ul style="list-style-type: none"> • Lesson 4: Session 4 <ul style="list-style-type: none"> ○ GPRS ○ EDGE 	X		- To assimilate concepts presented in class - To solve by themselves Proposed assignments

<ul style="list-style-type: none"> ○ UMTS ○ HSDPA 			
<ul style="list-style-type: none"> • Lesson 4: Session 5 <ul style="list-style-type: none"> ○ Proposed assignments 		X	<p>To assimilate concepts presented in class</p> <p>- To solve by themselves Proposed assignments</p>
<ul style="list-style-type: none"> • Lesson 4: Session 6 <ul style="list-style-type: none"> ○ Proposed assignments 		X	<p>- To assimilate concepts presented in class</p> <p>- To solve by themselves Proposed assignments</p>
<ul style="list-style-type: none"> • Lesson 5: Session 1 <ul style="list-style-type: none"> ○ Introduction ○ History ○ General concepts and orbits 	X		<p>- To assimilate concepts presented in class</p> <p>- To solve by themselves Proposed assignments</p>
<ul style="list-style-type: none"> • Lesson 5: Session 2 <ul style="list-style-type: none"> ○ Fix Service ○ VSAT networks 	X		<p>- To assimilate concepts presented in class</p> <p>- To solve by themselves Proposed assignments</p>
<ul style="list-style-type: none"> • Lesson 5: Session 3 <ul style="list-style-type: none"> ○ Satellite Mobile Communications 	X		<p>- To assimilate concepts presented in class</p> <p>- To solve by themselves Proposed assignments</p>
<ul style="list-style-type: none"> • Lesson 5: Session 4 <ul style="list-style-type: none"> ○ Positioning Systems 	X		<p>- To assimilate concepts presented in class</p> <p>- To solve by themselves Proposed assignments</p>
<ul style="list-style-type: none"> • Lesson 5: Session 5 <ul style="list-style-type: none"> ○ Proposed assignments 		X	<p>- To assimilate concepts presented in class</p> <p>- To solve by themselves Proposed assignments</p>
<ul style="list-style-type: none"> - Lesson 5: Session 6 <ul style="list-style-type: none"> ○ Proposed assignments 		X	<p>To assimilate concepts presented in class</p> <p>- To solve by themselves Proposed assignments</p>
<ul style="list-style-type: none"> • Lesson 6: Session 1 <ul style="list-style-type: none"> ○ Broadcasting Digital System ○ MPEG Standard 	X		<p>- To assimilate concepts presented in class</p>
<ul style="list-style-type: none"> • Lesson 6: Session 2 <ul style="list-style-type: none"> ○ DVB Standard 	X		<p>To assimilate concepts presented in class</p>

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