

MASTER SATELLITE COMMUNICATION SYSTEMS (SATCOM)

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ECTS
120 crédits



Durée
2 ans



Régime(s)
d'études
Formation
initiale

Présentation

Programme

MASTER SATELLITE COMMUNICATION SYSTEMS M1

Semestre 7 Sat Com

	Nature	CM	TD	TP	Crédits
SOFT AND HUMAN SKILLS- Sem. 7	UE				7 crédits
EPS-2A-Sem.7	Matière				
Français Langue Etrangère (FLE (PIM))	Matière				
Conferences on aeronautics - sem 7	Matière				
Communication	Matière				
EPS-2A-Sem.7	Matière				
Conferences on aeronautics - sem 7	Matière				
Communication	Matière				
CHOIX LV ESECA S7	Choix				
LV2-2ème Année-S7	Bloc				
Espagnol-S7	Matière				
Portugais-S7	Matière				
Chinois-S7	Matière				
Italien-S7	Matière				
Japonais-S7	Matière				
Russe-S7	Matière				
Allemand-S7	Matière				
FLE - S7	Matière				
LSF - S7	Matière				
Français Langue Etrangère (FLE (PIM))	Matière				
MATH	UE				6 crédits
Maths Fourier Analysis	Matière				
Maths - Complex variable - Vector analysis	Matière				
Maths Probability / Statistics	Matière				
PROGRAMMING	UE				3 crédits
Basis of Programming / Matlab	Matière				
C programming	Matière				
Microprocessor	Matière				
Basis of Programming / Matlab	Matière				
C programming	Matière				
Microprocessor	Matière				
DIGITAL ELECTRONICS	UE				5 crédits
VHDL - M1 ESECA	Matière				
Digital electronics project	Matière				
VHDL - M1 ESECA	Matière				
Digital electronics project	Matière				

INTRODUCTION TO DIGITAL COMMUNICATIONS	UE	8 crédits
SIGNAL PROCESSING	Matière	
DIGITAL SIGNAL PROCESSING	Matière	
DIGITAL COMMUNICATIONS	Matière	
CHANNEL CODING	Matière	
SIMULATION OF COMMUNICATION CHAINS	Matière	
INTRODUCTION TO LABORATORY EQUIPMENT	UE	1 crédits
Introduction to electronic laboratory equipment	Matière	
Intro. to antennas and RF measurements and instrumentation	Matière	

Semestre 8 Sat Com

	Nature	CM	TD	TP	Crédits
SOFT AND HUMAN SKILLS	UE				5 crédits
Professional Communication and English-Sem.8	Matière				
EPS-2A-Sem.8	Matière				
Conferences on Space and Aeronautics	Matière				
CHOIX LV ESECA S8	Bloc				
LV2-2è Année-Sem.8	Choix				
Espagnol-S8	Matière				
Portugais-S8	Matière				
Chinois-S8	Matière				
Italien-S8	Matière				
Japonais-S8	Matière				
Russe-S8	Matière				
Allemand-S8	Matière				
FLE - S8	Matière				
LSF - S8	Matière				
FLE - S8	Matière				
DIGITAL ELECTRONICS	UE				6 crédits
Digital Electronique Project	Matière				
Front-end acquisition	Matière				
OPTICS/TELECOM	UE				4 crédits
Optoelectronics	Matière				
Laser and optical fiber sensing techniques	Matière				
Practical Hyper / Opto	Matière				
RF	UE				7 crédits
Antennas	Matière				
Passive RF	Matière				
Active RF circuits	Matière				
MEMS	Matière				
Microwave system project	Matière				
TELECOMMUNICATION SYSTEMS	UE				8 crédits

Mobile communications
Telecommunication project
Satellite project

Matière
Matière
Matière

MASTER SATELLITE COMMUNICATION SYSTEMS M2

Semestre 10 Sat Com

	Nature	CM	TD	TP	Crédits
PFE	UE				30 crédits

Semestre 9 Sat Com

	Nature	CM	TD	TP	Crédits
SHS	UE				5 crédits
Satellite Comm. Business & Regulation & Space Law	Matière				
Project management	Matière				
Conferences on Satcom	UE				
Tutored project	UE				
Satellite Comm. Business & Regulation & Space Law	Matière				
Project management	Matière				
Visits and conferences	Matière				
ADVANCED TELECOMMUNICATION TECHNIQUES 1	UE				6 crédits
Network & Telecom Protocols	Matière				
Advanced digital communication	UE				
Modern channel coding	UE				
Digital com. for non linear channels	UE				
Network & Telecom Protocols	Matière				
Spread spectrum techniques	Matière				
Digital filter banks	Matière				
ADVANCED TELECOMMUNICATION TECHNIQUES 2	UE				5 crédits
Spread spectrum techniques	Matière				
Digital filter banks	Matière				
RF Satellite Channel	Matière				
Digital receivers & SDR Technology	Matière				
Digital receivers & SDR Technology	Matière				
Modern Channel Coding	Matière				
FUNDAMENTALS OF SATCOM SYSTEMS	UE				7 crédits
Introduction to Satellite communications	Matière				
Satellite payloads & ground segment	Matière				
Missions, platforms and operations	Matière				
MISE A NIVEAU	UE				
Signal processing	Matière				

Digital communication & channel coding

Matière

EVOLUTION OF SATCOM SYSTEMS

UE

7 crédits

Optical Satellite communications

Matière

Intoduction to sat navigation

Matière

Satellite Networks

Matière

System design for satellite telecommunication missions

Matière