

SCIENCES, INGÉNIERIE ET TECHNOLOGIES

MASTER SATELLITE COMMUNICATION SYSTEMS (SATCOM)



Niveau d'étude
visé
BAC +5



Diplôme
Master
ingénieur



Établissements
INP - ENSEEIHT

Parcours proposés

- › MASTER SATELLITE COMMUNICATION SYSTEMS
(SATCOM)

Programme

MASTER SATELLITE COMMUNICATION SYSTEMS (SATCOM)

MASTER SATELLITE COMMUNICATION SYSTEMS M1

Semestre 7 Sat Com

	Nature	CM	TD	TP	Crédits
SOFT AND HUMAN SKILLS- Sem. 7	UE				7
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				
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
Maths Fourier Analysis	Matière				
Maths - Complex variable - Vector analysis	Matière				
Maths Probability / Statistics	Matière				

PROGRAMMING	UE	3
Basis of Programming / Matlab	Matière	
C programming	Matière	
Microprocessor	Matière	
Basis of Programming / Matlab	Matière	
C programming	Matière	
Microprocessor	Matière	
DIGITAL ELECTRONICS	UE	5
VHDL - M1 ESECA	Matière	
Digital electronics project	Matière	
VHDL - M1 ESECA	Matière	
Digital electronics project	Matière	
INTRODUCTION TO DIGITAL COMMUNICATIONS	UE	8
SIGNAL PROCESSING	Matière	
DIGITAL SIGNAL PROCESSING	Matière	
DIGITAL COMMUNICATIONS	Matière	
CHANNEL CODING	Matière	
SIMULATION OF COMMUNICATION CHAINS	Matière	
INTRODUCTION TO LABORATORY EQUIPMENT	UE	1
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
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				
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
Digital Electronique Project	Matière	
Front-end acquisition	Matière	
OPTICS/TELECOM	UE	4
Optoelectronics	Matière	
Laser and optical fiber sensing techniques	Matière	
Practical Hyper / Opto	Matière	
RF	UE	7
Antennas	Matière	
Passive RF	Matière	
Active RF circuits	Matière	
MEMS	Matière	
Microwave system project	Matière	
TELECOMMUNICATION SYSTEMS	UE	8
Mobile communications	Matière	
Telecommunication project	Matière	
Satellite project	Matière	

MASTER SATELLITE COMMUNICATION SYSTEMS M2

Semestre 10 Sat Com

	Nature	CM	TD	TP	Crédits
PFE	UE				30

Semestre 9 Sat Com

	Nature	CM	TD	TP	Crédits
SHS	UE				5
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
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
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
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
Optical Satellite communications	Matière	
Intoduction to sat navigation	Matière	
Satellite Networks	Matière	
System design for satellite telecommunication missions	Matière	