Master in English

1st year

	Track	CLASSES	CREDITS
		French (FLE-PIM)	4
	Soft and Human Skills	Conferences on space and aeronautics	1
		Communication	1
		Sport	1
		CLASSES	CREDITS
	Mathematics	Theory of distributions for signal processing	2
		Probability / Statistics	2
		Stochastic process	2
SEMESTER 1	Programming	Basis of Programming/ Matlab	1
		C programming	1
		Microprocessor	2
	Digital electronics	VHDL digital design	3
		PBL : Digital electronics design	2
	Introduction to digital communication	Signal processing	1.5
		Digital signal processing	1.5
		Digital communications	1.5
		Channel coding	1.5
		Simulation of communcation chains	2
		French (FLE)	1
		English	1
	Soft and Human Skills	Sport	1
		Conferences on Space and aeronautics	1
		Junior Research project	1

	Track	CLASSES	CREDITS
SEMESTER 2			
	Digital electronics	Digital electronics project	3
		Front-end acquisition	3
	Optics	Optoelectronics	2
		Laser and optical fiber sensing techniques	1
		Practical Hyper / Opto	1
	RF	Antennas	1.5
		Passive RF	1
		Active RF circuits	1
		MEMS	2
		Hyper project	1.5
	Telecommunication systems	Mobile & multimedia communications	4
		Telecommunication Project	2
		Satellite Project	2

2nd year

	Track	CLASSES	CREDITS
	Soft and human skills	Satellite comm. Market & regulation & space law	1.5
		Project management	1.5
		Conferences on satcom	1
		Tutored project	4

		CLASSES	CREDITS
SEMESTER 1	Advanced telecommuncation techniques I	Network & Telecom. Protocols	2
		Advanced digital communication	2
	Advanced telecommuncation techniques II	Spread Spectrum Techniques	1.5
		Digital filter banks	1.5
		RF Satelllite channel	1
		Digital receivers & SDR technology	2
	Components of a SATCOM system	Satellite communications	1.5
		Satellite payloads & Earth Stations & Terminals	2
		Communication satellites	1.5
		Optical satellite communications	1
	Space techniques and applications	Satellite based computer networks	2
		Mobile & multimedia satellite communications	2.5
		Introduction to GNSS systems	1.5
SEMESTER 2	5 to 6 month final internship		30