

1st year

	CLASSES	CREDITS
SEMESTER 1	Soft & Human Skills	5
	Integration and Applications - Probabilities	5
	Common Foundation in Computer Science	5
	Numerical Analysis and Statistics	5
	Signal Processing and Control Systems	5
	Modeling and Architecture	5
	CLASSES	CREDITS
SEMESTER 2	Soft & Human Skills	5
	Telecommunications	5
	Networks	5
	Scientific Computing and Data Analysis	5
	Object-Oriented Technology	5
	Architecture and Systems	5

2nd year

	Track	CLASSES	CREDITS
	Telecommunications Systems	SOFT AND HUMAN SKILLS (5 ECTS credits)	30
		IDM ET INTERGICIELS (5 ECTS credits)	
		COMMUNICATIONS NUMERIQUES SUR CANAUX SELECTIFS (5 ECTS credits)	
		COMMUNICATION NUMERIQUES CODEES (5 ECTS credits)	
		RESEAUX LOCAUX ET DE TELECOMMUNICATIONS (5 ECTS credits)	
		INTERNET ET GRAPHES (5 ECTS credits)	
		CLASSES	CREDITS
	Computer Networks	SOFT AND HUMAN SKILLS (5 ECTS credits)	30
		COMMUNICATIONS NUMERIQUES SUR CANAUX SELECTIFS (5 ECTS credits)	
		COMMUNICATION NUMERIQUES CODEES (5 ECTS credits)	
		RESEAUX LOCAUX ET DE TELECOMMUNICATIONS (5 ECTS credits)	
SYSTEMES CONCURRENTS ET COMMUNICANTS (5 ECTS credits)			
INTERNET ET GRAPHES (5 ECTS credits)			

SEMESTER 3

System architecture and networks	SOFT AND HUMAN SKILLS (5 ECTS credits)	30
	RESEAUX LOCAUX ET DE TELECOMMUNICATIONS (5 ECTS credits)	
	ARCHITECTURE DES ORDINATEURS (5 ECTS credits)	
	BASE DE LA PROGRAMMATION FONCT ET TRADUCTION DES LANGAGES (5 ECTS credits)	
	SYSTEMES CONCURRENTS ET COMMUNICANTS (5 ECTS credits)	
	INTERNET ET GRAPHERS (5 ECTS credits)	
Software systems	SOFT AND HUMAN SKILLS (5 ECTS credits)	30
	SYSTEMES CONCURRENTS ET COMMUNICANTS (5 ECTS credits)	
	THEORIE DES AUTOMATES ET DES LANGAGES, THEORIE DES GRAPHERS (5 ECTS credits)	
	GENIE DU LOGICIEL ET DES SYSTEMES (5 ECTS credits)	
	OPTIMISATION ET R.O. (5 ECTS credits)	
	PROGRAMMATION FONCTIONNELLE (5 ECTS credits)	
Image and multimedia	SOFT AND HUMAN SKILLS (5 crédits ECTS)	30
	BASE DE LA PROGRAMMATION FONCT ET TRADUCTION DES LANGAGES (5 crédits ECTS)	
	SYSTEMES CONCURRENTS ET COMMUNICANTS (5 crédits ECTS)	
	THEORIE DES AUTOMATES ET DES LANGAGES, THEORIE DES GRAPHERS (5 crédits ECTS)	
	GENIE DU LOGICIEL ET DES SYSTEMES (5 crédits ECTS)	
	OPTIMISATION ET R.O. (5 crédits ECTS)	
HPC and Big data	SOFT AND HUMAN SKILLS (5 crédits ECTS)	30
	BASE DE LA PROGRAMMATION FONCT ET TRADUCTION DES LANGAGES (5 crédits ECTS)	
	SYSTEMES CONCURRENTS ET COMMUNICANTS (5 crédits ECTS)	
	THEORIE DES AUTOMATES ET DES LANGAGES, THEORIE DES GRAPHERS (5 crédits ECTS)	
	GENIE DU LOGICIEL ET DES SYSTEMES (5 crédits ECTS)	
	OPTIMISATION ET R.O. (5 crédits ECTS)	
Track	CLASSES	CREDITS
Telecommunications Systems	Soft and Human Skills	30
	Choix d'UE-2ASN-S8-Parcours T	
	RECEPTEURS NUMERIQUES AVANCEES (5 ECTS credits)	
	SYSTEME NUMERIQUE DE TRAITEMENT DE L'INFORMATION (5 ECTS credits)	

SEMESTER 4

	SYSTEMES DE TELECOM SANS FIL ET MOBILES 1 (5 ECTS credits)	
	SYSTEMES, APPLICATIONS MOBILES ET SECURITE (5 ECTS credits)	
	CLASSES	CREDITS
Computer Networks	Soft and Human Skills	30
	SYSTEMES, APPLICATIONS MOBILES ET SECURITE (5 ECTS credits)	
	SCIENCES ET INGENIERIE DES RESEAUX (5 ECTS credits)	
	IDM ET DEVELOPPMENT WEB (5 ECTS credits)	
	INTERCONNEXION ET MODELISATION DES RESEAUX (5 ECTS credits)	
	SYSTEMES DE TELECOM SANS FIL ET MOBILES 2 (5 ECTS credits)	
System architecture and networks	Soft and Human Skills	30
	APPLICATIONS CONCURRENTES ET COMMUNICANTES, BASE DE DONNES (5 ECTS credits)	
	SCIENCES ET INGENIERIE DES RESEAUX (5 ECTS credits)	
	ARCHITECTURE DES SYSTEMES D'EXPLOITATION (5 ECTS credits)	
	INTERCONNEXION ET MODELISATION DES RESEAUX (5 ECTS credits)	
	SYSTEMES DE TELECOM SANS FIL ET MOBILES 3 (5 ECTS credits)	
Software systems	Soft and Human Skills	30
	APPLICATIONS CONCURRENTES ET COMMUNICANTES, BASE DE DONNES (5 ECTS credits)	
	METHODES FORMELLES 1 (5 ECTS credits)	
	PARADIGMES EMERGENTS DE PROGRAMMATION (5 ECTS credits)	
	SEMANTIQUE ET TRADUCTION DES LANGAGES (5 ECTS credits)	
	PROGRAMMATION MOBILE ET APPRENTISSAGE PROFOND (5 ECTS credits)	
Image and multimedia	Soft and Human Skills	30
	APPLICATIONS CONCURRENTES ET COMMUNICANTES, BASE DE DONNES (5 ECTS credits)	
	TRAITEMENT DES DONNES AUDIO-VISUELLES (5 ECTS credits)	
	APPROXIMATION, INTERPOLATION, EDP (5 ECTS credits)	
	IMAGE, RENDU, MODELISATION (5 ECTS credits)	
	PROGRAMMATION MOBILE ET APPRENTISSAGE PROFOND (5 ECTS credits)	
	Soft and Human Skills	
	APPLICATIONS CONCURRENTES ET COMMUNICANTES, BASE DE DONNES (5 ECTS credits)	

HPC and Big data	ALGEBRE LINEAIRE AVANCEE (5 ECTS credits)	30
	CONTROLE ET ANALYSE MULTIREOLUTION (5 ECTS credits)	
	APPROXIMATION, INTERPOLATION, EDP (5 ECTS credits)	
	APPRENTISSAGE MACHINE ET OPTIMISATION (5 ECTS credits)	

3rd year

Track	CLASSES	CREDITS
Software systems	SOFT AND HUMAN SKILLS (5 ECTS credits)	30
	SYSTEMES TEMPS REELS (STR) (5 ECTS credits)	
	SYSTEMES REPARTIS ET SECURITE (5 ECTS credits)	
	RAFFINEMENT ET METHODES FORMELLES (5 ECTS credits)	
	INTERFACE D'ACCES A L'INFORMATION (5 ECTS credits)	
	UE A CHOIX SELON FINALITE (5 ECTS credits)	
	CLASSES	CREDITS
Image and multimedia	SHS SN Semestre 9 (Coefficient 5)	30
	INTELLIGENCE ARTIFICIELLE ET MULTIMEDIA (5 crédits ECTS)	
	COMPRESSION STREAMING INTERACTION (5 crédits ECTS)	
	VISION, REALITE AUGMENTEE ET APPLICATIONS (5 crédits ECTS)	
	PROBLEMES INVERSES POUR LE 3D (5 crédits ECTS)	
	UE A CHOIX SELON FINALITE (5 crédits ECTS)	
	SOFT AND HUMAN SKILLS (5 crédits ECTS)	
HPC and Big data	SHS SN Semestre 9 (Coefficient 5)	30
	SYSTEMES REPARTIS ET SECURITE (5 crédits ECTS)	
	ADVANCED STATISTICAL MACHINE LEARNING (5 crédits ECTS)	
	HIGH PERFORMANCE SCIENTIFIC COMPUTING (5 crédits ECTS)	
	INVERSE PROBLEMS (5 crédits ECTS)	
	UE A CHOIX SELON FINALITE (5 crédits ECTS)	
	SOFT AND HUMAN SKILLS (5 crédits ECTS)	
	SHS SN Semestre 9 (Coefficient 5)	
	RESEAUX POUR IOT (5 crédits ECTS)	
	INFRASTRUCTURE BIG DATA/IA (5 crédits ECTS)	

SEMEST	Big data and IoT infrastructure	RESEAUX D'OPERATEURS (5 crédits ECTS)	30
		SERVICES D'INFRASTRUCTURE (5 crédits ECTS)	
		UE A CHOIX SELON FINALITE (5 crédits ECTS)	
		SOFT AND HUMAN SKILLS (5 crédits ECTS)	
	Wireless telecommunications and connected object	SHS SN Semestre 9 (Coefficient 5)	30
		TECOMMUNICATIONS AVANCEES (5 crédits ECTS)	
		TERRESTRIAL COMMUNICATION SYSTEMS AND IOT (5 crédits ECTS)	
		COMMUNICATIONS SPACIALES ET AERONAUTIQUES (5 crédits ECTS)	
		RESEAUX MOBILES (5 crédits ECTS)	
		UE A CHOIX SELON FINALITE (5 crédits ECTS)	
		SOFT AND HUMAN SKILLS (5 crédits ECTS)	
	Embedded systems and networks	SOFT AND HUMAN SKILLS (5 ECTS credits)	30
		SYSTEMES TEMPS REELS (STR) (5 ECTS credits)	
		RESEAUX EMBARQUES (REM) (5 ECTS credits)	
		IoT INDUSTRIEL USINE DU FUTUR (IIOT) (5 ECTS credits)	
		UE A CHOIX SELON FINALITE (5 ECTS credits)	
VALIDATION DES SYSTEMES (5 ECTS credits)			
Toulouse security	BASE DE LA SECURITE (5 ECTS credits)	30	
	SECURITE DU LOGICIEL (4 ECTS credits)		
	SECURITE SYSTEME ET MATERIELLE, RETRO COCEPTION (4 ECTS credits)		
	SECURITE DES RESEAUX ET DE LEURS PROTOCOLES (3 ECTS credits)		
	ARCHITECTURES RESEAUX SECURISEES (4 ECTS credits)		
	CAS PRATIQUES D'APPLICATION (5 ECTS credits)		
	SCIENCES HUMAINES, SOCIALES ET JURIDIQUE (Parc.TLS-Sec) (5 ECTS credits)		
Semester 6	End of studies internship (March to September)	Students complete their end-of-study internship in companies (possibly in a laboratory), in France or abroad. Many offers are sent by companies to ENSEEIHT. In addition, forums are offered to help students find their internship.	