

Computer science (CS)			CS					
Type	Module	Nom complet	Soft Engineering	Embedded Systems	Cybersecurity	Communication Systems	Descriptif	ECTS
TSM	TSM_AdvComArc	Advanced Communication Architectures	O	O	R	R	<a href="#">Lien</a>	3
TSM	TSM_AdvDaBa	Advanced Database	R	O	O	O	<a href="#">Lien</a>	3
TSM	TSM_AdvEmbSof	Advanced Embedded Software (with elements of T-EmbReal)	O	R	O	O	<a href="#">Lien</a>	3
TSM	TSM_CloudSys	Cloud Services & Systems	R	O	R	R	<a href="#">Lien</a>	3
TSM	TSM_CyberSec	Cyber Security	R	R	R	R	<a href="#">Lien</a>	3
TSM	TSM_EmbHardw	Design of Embedded Hardware and Firmware	O	R	O	O	<a href="#">Lien</a>	3
TSM	TSM_SoftwEng	Software Engineering and Architectures	R	R	R	R	<a href="#">Lien</a>	3
TSM	TSM_AnSeqDa	Analysis of Sequential Data	O	O	O	O	<a href="#">Lien</a>	3
TSM	TSM_DataMgmt	Data Management	O	O	O	O	<a href="#">Lien</a>	3
TSM	TSM_DeLearn	Deep Learning	O	O	O	O	<a href="#">Lien</a>	3
FTP	FTP_Alg	Algorithms	R	R	R	R	<a href="#">Lien</a>	3
FTP	FTP_CryptCod	Cryptography and Coding Theory	O	O	R	O	<a href="#">Lien</a>	3
FTP	FTP_Optimiz	Optimization	R	R	R	R	<a href="#">Lien</a>	3
FTP	FTP_DigImPro	Digital image Processing	O	O	O	O	<a href="#">Lien</a>	3
FTP	FTP_MachLe	Machine learning	O	O	O	O	<a href="#">Lien</a>	3
CM	CM_AcWritPre	Academic Writing and Presenting	R	R	R	R	<a href="#">Lien</a>	3
CM	CM_Entrepr	Corporate management and entrepreneurship	R	R	R	R	<a href="#">Lien</a>	3
CM	CM_QRM	Quality and Risk Management	O	O	O	O	<a href="#">Lien</a>	3
CM	CM_AdvProjMgmt	Advanced project management	O	O	O	O	<a href="#">Lien</a>	3
CM	CM_CmplPro	Management of Complex Processes (commun avec ZH)	O	O	O	O	<a href="#">Lien</a>	3
CM	CM_InnChang	Innovations and change management	O	O	O	O	<a href="#">Lien</a>	3
CM	CM_PrivLaw	Privacy and Law	O	O	O	O	<a href="#">Lien</a>	3
CM	CM_SustDev	Sustainable developments	O	O	O	O	<a href="#">Lien</a>	3
MA	MA_AdMoApp	Advanced Mobile Applications	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_AdvProg	Advanced Programming Paradigm	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_ASAD	Advanced Software Architecture and Design	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_AUI	Advanced User Interface	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_CSEL1	Construction de systèmes embarqués sous Linux	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_EHK	Ethical Hacking	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_EmbReal	Embedded real-time software	O	O	O	O	<a href="#">Lien</a>	3
MA	MA_GT	Games Technologies	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_ICR	Industrial Cryptography	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_IPR	Design du routage IP avancé	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_ITProMan	Management des projets IT	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_NSA	Network Security and Architecture	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_ParaDis	Parallel & Distributed Computing	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_PCM	Programmation concurrente multicore	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_GesSec	Identité et confiance : gestion sécurisée	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_SeS	Secure Embedded System	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_SRE	Software Reverse Engineering and Protection	R	R	R	R	<a href="#">Lien</a>	3
MA	MA_BDA	Big Data Analytics	O	O	O	O	<a href="#">Lien</a>	3
MA	MA_GPU	GPU, IA and Robotics	O	O	O	O	<a href="#">Lien</a>	3
MA	MA_IoT	Internet of Things	O	O	O	O	<a href="#">Lien</a>	3
MA	MA_LPSC	Logiques programmables pour systèmes complexes et performants.	O	O	O	O	<a href="#">Lien</a>	3
MA	MA_MLBD	Machine Learning on Big Data	O	O	O	O	<a href="#">Lien</a>	3
MA	MA_NTDA	New technologies in Data Analysis - Applied ML	O	O	O	O	<a href="#">Lien</a>	3
MA	MA_NTDE	New technologies in Data Engineering	O	O	O	O	<a href="#">Lien</a>	3
MA	MA_WEM	Web Mining	O	O	O	O	<a href="#">Lien</a>	3
PA	PA	Projet d'Approfondissement	Oblig.	Oblig.	Oblig.	Oblig.	<a href="#">Lien</a>	6
PI	PI_x	Projet Interdisciplinaire en groupe	Oblig.	Oblig.	Oblig.	Oblig.	<a href="#">Lien</a>	6
TM	TM	Travail de Master	Oblig.	Oblig.	Oblig.	Oblig.		30

**Légende**

- TSM Modules Technico-Scientifiques
- FTP Principes Théoriques Fondamentaux
- CM Modules Contextuels
- MA Modules d'Approfondissement
- MAP Modules d'Apprentissage par Projet
- PA Projet d'Approfondissement
- PI Projet Interdisciplinaire en groupe
- TM Travail de Master
- R Module Recommandé
- O Module Optionnel

Sous réserve de modifications