

DIGITAL ENGINEERING 4 - Common Core - S7					
UE	MATIERE	Coeff	Crédit ECTS	nb Séances	nb Heures
EU S7-1 Sciences	Image Processing	1	3	18	24
	Optimisation of Algorithm	1		18	24
EU S7-2 Development & Networks	Java EE	1	5	12	18
	Introduction in artificial intelligence	1		12	18
	Introduction to cybersecurity	1		12	18
	Introduction in cloud computing	1		12	18
EU S7-3 Projects	Green IT Project	1	5	32	
	Application Project	2		64	
EU S7-4 Majors	Majors Courses : Big data/cyber/A.I.	1	6	70	105
EU S7-5 Entreprise & Project Management	Agile Project Management	1	3	16	24
	Project	1		16	24
EU S7-6 International Culture	English	1	3	18	27
	French	1		18	27
TOTAL			30	350	381

DIGITAL ENGINEERING 4 - Major Courses - S7					
UE	MATIERE	Coeff	Crédit ECTS	nb Séances	nb Heures
UE S7-4 Big Data Major	Oracle Administration	1	6	18	24
	Data Visualisation	1		14	21
	Machine learning	1		14	21
	Document-oriented Database	1		12	18
	Data integration	1		14	21
UE S7-4 Cybersecurity Major	LAN/WAN networks	2	6	18	27
	Cryptography & block chain	2		14	21
	Digital Investigation	1		14	21
	Ethical Hacking	1		24	36
	Smart application	1		14	21
UE S7-4 Artificial Intelligence Major	Data Visualisation	1	6	14	21
	Machine learning	1		14	21
	Ethic & AI	1		14	21
	Learning & Vision	1		14	21
TOTAL			70	105	

DIGITAL ENGINEERING 4 - Common Core - S7					
UE	MATIERE	Coeff	Crédit ECTS	nb Séances	nb Heures
EU S8-1 Sciences	Linear Programming	1	3	12	18
	Statistics and Probabilistic Modeling	1		12	18
EU S8-2 Development & Networks	Mobile Development	1	5	12	18
	Linux System Administration	1		14	21
	Windows System Administration	1		14	21
	Introduction to virtualisation	1		14	21
	PL/SQL database	1		12	18
EU S8-4 Projects	Research Scientific Project	1	3	12	
	Major Project	2		32	
EU S8-5 Majors	Majors Courses : Big data/cyber/A.I.	1	6	70	105
EU S8-6 Entreprise & Project Management	Project	1	11	70	105
EU S8-7 International culture	French	1	2	24	36
TOTAL			30	298	381

DIGITAL ENGINEERING 4 - Major Courses - S8					
UE	MATIERE	Coeff	Crédit ECTS	nb Séances	nb Heures
UE S8-5 Big Data Major	Open data	1	6	14	21
	Big data	1		14	21
	Data engineering and analysis	1		14	21
	Java EE & Hibernate	1		14	21
	Business intelligence	1		14	21
UE S8-5 Cybersecurity Major	Risk Analysis & Security Policy	2	6	18	27
	Pentesting	1		24	36
	Secure Programming	2		14	21
	Security Management	2		14	21
UE S8-5 Artificial Intelligence Major	Deep learning	1	6	18	27
	Reinforcement learning	1		14	21
	Human Language Technology	1		10	15
	Data Engineering and Analysis	1		14	21
	Edge Computing	1		14	21
TOTAL			70	105	