

## Computer Engineering - Winter Semester

UE	MATIERE	Coeff	Crédit ECTS	nb Séances	nb Heures
EU S7-1 Sciences	Image Processing	1	3	16	24
	Optimisation of Algorithm	1		16	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	3	8	16	24
	Project	3		50	75
EU S7-6 International Culture	English	1	3	18	27
	French	1		20	30
<b>TOTAL</b>			<b>30</b>	<b>350</b>	<b>381</b>

## Computer Engineering - Winter Semester - Major Courses

UE	MATIERE	Coeff	Crédit ECTS	nb Séances	nb Heures
UE S7-4 Big Data Major	Oracle Administration	1	6	16	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
	Cryptology & block chain	2		14	21
	Digital Investigation	2		14	21
	Ethical Hacking	3		24	36
UE S7-4 Artificial Intelligence Majeure	Smart application	1	6	14	21
	Data Visualisation	1		14	21
	Machine learning	1		14	21
	Ethic & AI	1		14	21
	Learning & Vision	1		14	21
<b>TOTAL</b>				<b>70</b>	<b>105</b>

## Computer Engineering - Spring Semester

UE	MATIERE	Coeff	Crédit ECTS	nb Séances	nb Heures
<b>EU S8-1 Sciences</b>	Linear Programming	1	3	12	18
	Statistics and Probabilistic Modeling	1		12	18
<b>EU S8-2 Development &amp; Networks</b>	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
<b>EU S8-4 Projects</b>	Research Scientific Project	1	3	12	
	Major Project	2		32	
<b>EU S8-5 Majors</b>	Majors Courses : Big data/cyber/A.I.	1	6	70	105
<b>EU S8-6 Entreprise &amp; Project Management</b>	Project	1	11	70	105
<b>EU S8-7 International culture</b>	French	1	2	24	36
<b>TOTAL</b>			<b>30</b>	<b>298</b>	<b>381</b>

## Computer Engineering - Spring Semester - Major Courses

UE	MATIERE	Coeff	Credit ECTS	nb Séances	nb Heures
<b>UE S8-5 Big Data Major</b>	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
<b>UE S8-5 Cybersecurity Major</b>	Risk Analysis & Security Policy	2	6	18	27
	Pentesting	3		24	36
	Secure Programming	2		14	21
	Security Management	2		14	21
<b>UE S8-5 Artificial Intelligence Major</b>	Deep learning	4	6	18	27
	Reinforcement learning	3		14	21
	Human Language Technology	2		10	15
	Data Engineering and Analysis	3		14	21
	Edge Computing	3		14	21
<b>TOTAL</b>				<b>70</b>	<b>105</b>