

Robotic & Interactive Systems

SEMESTER 5		ECTS	C	TD	TP	H
UE1 UESHSL 1	Foreign Languages	9		36		36
	Economics and Business Management		18	18		36
	Physical Education and Sports			16		16
	Human and Social Sciences*		8	10		18
	30 hours of mathematics support **		14	16		30
UE2 UEOS11	Algorithmic basics and programming*	9	8	10	16	34
	Physics		12	22		34
	Mathematical tools for engineers		18	18		36
UE3 UEST1	System modeling and control I	12	14	14	8	36
	System Dependability		12	12	12	36
	Computer modelling tools *		14	16	6	36
	Object Programming		12	12	12	36
* Shared between SRI and STRI / ** support hours are not taken into account in the global hour volume (H) .		30	116	184	54	354

SEMESTRE 6		ECTS	C	TD	TP	H
UE4 UESHS L2	Foreign Languages	9		36		36
	Project Management		10	26		36
	Physical Education and Sports			16		16
	Human and Social Sciences		8	10		18
	2-month internship					
UE5 UEOSI2	Industrial Computing *	9	10	10	15	35
	System Communication		12	12	12	36
	Signal Processing		12	12	12	36
UE6 UEST2	System modeling and control II	12	12	10	15	36
	Object Oriented Design		12	12	12	38
	Introduction to Robotic and Interactive Systems		20	22	28	70
* shared between STRI/SRI		30	96	166	94	356

SEMESTRE 7		ECTS	C	TD	TP	H
UE7 UESHSL3	Foreign Languages	12		36		36
	Business Management		18	16		34
	Physical Education and Sports			16		16
	Human and Social Sciences		8	10		18
	Initiation: How to conduct a scientific study and research work		6	24		30
UE8 UEST3	Estimation and Optimization for Robotics	9	14	10	12	36
	Models for parallelism		12	10	12	34
	Advanced Programming		10	10	16	36
UE9 UEST4	Industrial and Mobile Robotics	9	26	18	26	70
	Control and Optimization for Robotics		12	9	15	36
		30	106	159	81	346

SEMESTRE 8		ECTS	C	TD	TP	H
UE10 UESHSL4	Foreign Languages	6		36		36
	Physical Education and Sports			16		16
	Quality Management		8	14		22
	3-month internship (mandatory)	6				
UE11 UEST5	Multi-task programming and real-time systems	9	12	14	18	44
	AI and solving problem methods		12	10	24	46
	AI – Machine learning and Deep Learning		16	12	16	44
UE12 UEST6	Robot Motion and Navigation	9	18	12	16	46
	Speech Processing and Synthesis		16	8	20	44
	Image Processing and synthesis		16	10	18	44
		30	98	132	112	342

SEMESTRE 9		ECTS	C	TD	TP	H
UE13 UESHSL5	Foreign languages	6		36		36
	Innovation and law		10	20		30
UE14 UEST7	Robotic systems	9	30	18	44	92
	Design and implementation of Robotic Systems		10	10	8	28
UE15 UEST8	Advanced Robotics / Advanced Interaction	6	16	8	26	50
	Project Management and coaching		4	4	16	24
UE16 UEST9	Interactive Systems	9	22	16	48	86
	Design and implementation of Interactive Systems		10	6	8	24
		30	102	118	150	370

SEMESTRE 10		ECTS	C	TD	TP	H
UEPR	Professionalization and Qualification (professional project)	6	-	-	-	-
	5-month internship (mandatory)	24	-	-	-	-
		30	-	-	-	-