

### Innovative Smart Systems - 2023/2024 - Semestre 9

	UF	Supervisor	Code	Lecture	Tutorial	Practical	Evaluation	Total	ECTS
Innovative Smart Systems (ISS)	<b>Smart Devices</b>	<b>J. Grisolia</b>	<b>I5SSEN11</b>	<b>10</b>	<b>26,25</b>	<b>16,50</b>		<b>52,75</b>	<b>5</b>
	Microcontrollers and Open-Source Hardware, Embedded IA (M&OSH)	J. Grisolia, S. Lohez		1,25	23,75	0	report/presentation/making/exam	25	
	CAD, manufacturing and integration of nano-technology sensors (AIME)	J. Grisolia				13,75	report/presentation/making/exam	13,75	
	Sensors introduction	J. Grisolia		8,75	2,5		report/presentation/making/exam	11,25	
	Analog electronic labs	J. Grisolia				2,75	report/presentation/making/exam	2,75	
	<b>Communication technologies for IoT</b>	<b>D. Dragomirescu</b>	<b>I5SSCM11</b>	<b>33,75</b>	<b>3,75</b>	<b>22</b>		<b>59,5</b>	<b>5</b>
	Wireless Sensors Network	D. Dragomirescu		10		8,25	report/presentation/making/exam	18,25	
	Communication protocols for LP-WPAN	S. Abdellatif		3,75	3,75		report/presentation/making/exam	7,5	
	5G Technologies	E. Sicard		7,5			report/presentation/making/exam	7,5	
	Emerging network (SDN, NGN)	S. Abdellatif		5		5,5	report/presentation/making/exam	10,5	
	Embedded IA for IoT			7,5		8,25	report/presentation/making/exam	15,75	
	<b>Middleware and Service</b>	<b>T. Monteil</b>	<b>I5SSIL11</b>	<b>16,25</b>	<b>15</b>	<b>38,5</b>		<b>69,75</b>	<b>5</b>
	Service architecture	N. Guermouche		7,5	12,5	11	report/presentation/making/exam	31	
	Software engineering	N. Guermouche			2,5		report/presentation/making/exam	2,5	
	Middleware for Internet of Things	T. Monteil		3,75		11	report/presentation/making/exam	14,75	
	Cloud and Edge computing	S. Yangui		5		16,5	report/presentation/making/exam	21,5	
	<b>Security and Energy optimization for IoT</b>	<b>E. Alata</b>	<b>I5SSSE11</b>	<b>17,5</b>	<b>0</b>	<b>27,5</b>		<b>45</b>	<b>4</b>
	Security for connected objects	E. Alata		12,5		22	report/presentation/making/exam	34,5	
	Energy for connected objects (recovery, transfert)	G.Loubet		5		5,5	report/presentation/making/exam	10,5	
	<b>Innovative project</b>	<b>V. Migliore</b>	<b>I5SSRS11</b>	<b>0</b>	<b>31,25</b>	<b>44</b>		<b>75,25</b>	<b>6</b>
	Innovative project	T. Monteil				38,5	report/presentation/making/exam	38,5	
	Portfolio	G. Loubet			1,25	5,5	report/presentation/making/exam	6,75	
	English	J. Shea			30		report/presentation/making/exam	30	
	<b>Innovation and humanity</b>	<b>H. Hereng</b>	<b>I5SSGE11</b>	<b>27,5</b>	<b>40</b>	<b>0</b>		<b>67,5</b>	<b>5</b>
	Innovation	E. Jolivet		17,5			report/presentation/making/exam	17,5	
	Team Management / Social Acceptability	N. Lacune, M.-J. Tragin		10	10		report/presentation/making/exam	20	
	Sport	V. Gros, S. Rossard			21,5		practice	21,5	
Individualized Professional Development	T. Dupont			8,5		report/presentation	8,5		
<b>SEMESTER</b>				<b>105,00</b>	<b>116,25</b>	<b>148,50</b>		<b>369,75</b>	<b>30</b>