

**Computer Science for Autonomous Systems MSc, SPECTRO Autonomous Systems and Intelligent Robots (AUSIR)  
Fall semester (2024)**

**Compulsory subjects**

Code	Subject	Lecture (L)	Practice (Pr)	Labor	Consultation	Requirement	Credit	Semester	Subject requirement	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-22AUTCVEG	3D Computer Vision L+Pr.	2	0	2	2	XE	6	1		2+0+2+2			
IPM-22AUTIVSEG	Introduction to Vehicles and Sensors L.+Pr.	2	1	0	1	XE	4	1		2+1+0+1			
IPM-22AUTAIPAEG	Deep Reinforcement Learning L+Pr.	2	2	0	2	XPG	6	2			2+2+0+2		
	<b>Compulsory subjects credits</b>						<b>16</b>			<b>10</b>	<b>6</b>	<b>0</b>	

**Compulsory elective subjects**

Code	Subject	Lecture (L)	Practice (Pr)	Labor	Consultation	Requirement	Credit	Semester	Subject requirement	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-22AUTPREPG	Preparation course for master studies and developing learning skills Pr.	0	3	0	0	PG	2	1		0+3+0+0			
IPM-24AUTPAIEG	Principles of artificial intelligence L+Pr.	2	2	0	2	XE	6	1		2+2+0+2			
IPM-22AUTIVPEG	Image and Video Processing L.+Pr.	2	2	0	2	XE	6	2			2+2+0+2		
IPM-24AUTIMREG	Intelligent Mobile Robots	2	2	0	2	XPG	6	2			2+2+0+2		
IPM-22AUTDNDEG	Deep Network Development	2	0	2	2	XE	6	3				2+0+2+2	
IPM-22AUTSSFEG	3D Sensing and Sensor Fusion L.+Pr.	2	2	0	2	XE	6	3				2+2+0+2	
IPM-24AUTMLEG	Machine learning L+Pr.	2	0	2	2	XE	6	3				2+0+2+2	

IPM-24AUTIMRLG	Intelligent Mobile Robot Lab	0	0	4	2	PG	6	3				0+0+4+2	
	<b>Compulsory elective subjects credits</b>						<b>44</b>			<b>8</b>	<b>12</b>	<b>24</b>	

I&E modul													
Code	Subject	Lecture (L)	Practice (Pr)	Labor	Consultation	Requirement	Credit	Semester	Subject requirement	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-22fi&EBEG	I&E Basics	2	2	0	2	XPG	6	1		2+2+0+2			
IPM-22fi&EBDL1G	Business Development Lab I.	0	2	0	2	PG	4	1		0+2+0+2			
IPM-22fi&EBDL2G	Business Development Lab II.	0	2	0	2	PG	4	2			0+2+0+2		
IPM-22fi&EIAOEEG	Innosocial aspects of the entrepreneurship	2	2	0	2	XPG	6	2			2+2+0+2		
IPM-24fDEPTIEPG	Thematic Innovation and Entrepreneurship PROJECT					PG	4	2				120/semester	
IPM-22fi&ESTEG	I&E Study	2	2	0	2	XPG	6	3				2+2+0+2	
	<b>Compulsory credits</b>						<b>16</b>			<b>10</b>	<b>6</b>	<b>0</b>	
	<b>Compulsory elective credits</b>						<b>44</b>			<b>8</b>	<b>12</b>	<b>24</b>	
	<b>I&amp;E modul</b>						<b>30</b>			<b>10</b>	<b>10</b>	<b>10</b>	
<b>IPM-24AUTTHESIS</b>	<b>Thesis consultation</b>		<b>5</b>			<b>PG</b>	<b>30</b>	<b>4</b>					<b>signature</b>
	<b>Summa credit in semester</b>									<b>28</b>	<b>32</b>	<b>30</b>	<b>30</b>
	<b>Summa credit</b>						<b>120</b>						

PG: Practical Grade E: Exam XPG: Lecture+Practice with Practical Grade XE: Lecture+Practice with Exam