

## Computer Science MSc (Digital Factory specialization 2020)

### Core Courses

Code	Courses	Subject requirement	Lecture (L)	Exam (E)	Labor	Practice (Pr)	Practice Grade (PG)	Consultation	Credit	Semester	1st Semester	2nd Semester	3rd Semester	4th Semester
IPMSEK-20fSTEG	Software Technology L+Pr.		2	X	0	2	PG	1	5	1	2+2+1			
IPMSEK-20fIDSEG	Introduction to Data Science L+Pr.		2	X	2	0		1	5	1	2+2+1			
IPMSEK-20fWATEG	Web engineering L+Pr.		2	X	2	0	CA	1	5	2		2+2+1		
IPMSEK-20fPRG	Internship						PG		0	3			240/semester	
	<b>Core course credits</b>								<b>15</b>		<b>10</b>	<b>5</b>		

### Compulsory Courses of the Specialization

Code	Courses	Subject requirement	Lecture (L)	Exam (E)	Labor	Practice (Pr)	Practice Grade (PG)	Consultation	Credit	Semester	1st Semester	2nd Semester	3rd Semester	4th Semester
IPMSEK-20fi4ICSE	Introduction to Computer Security L.		2	E	0	0		0	2	1	2+0+0			
IPMSEK-20fi4ICSG	Introduction to Computer Security Pr.		0		2	0	PG	1	3	1	0+2+1			
IPMSEK-20fi4PAIEG	Principles of artificial intelligence L+Pr.		2	X	2	0		1	5	1	2+2+1			
IPMSEK-20fi4FEPEG	Manufacturing Engineering for Programmers		2		2	0	PG	1	5	1	2+2+1			
IPMSEK-20fi4MSLSG	Master studies and learning skills		0		0	3	PG	0	2	1	0+3+0			
IPMSEK-20fi4ROBEG	Industrial Robotics		2		2	0	PG	1	5	2		2+2+1		
IPMSEK-20fi4ICEG	Industrial communication		2	X	2	0	PG	1	5	2		2+2+1		
IPMSEK-20fi4MLEG	Machine Learning L+Pr.	IPMSEK-20fIDSEG	2	X	2	0		1	5	2		2+2+1		
IPMSEK-20fi4IDEG	Industrial Databases		2	X	2	0	PG	1	5	2		2+2+1		
IPMSEK-20fi4DMEG	Digital Manufacturing		2	X	2	0	PG	1	5	2		2+2+1		
IPMSEK-20fi4HBPEG	Hardware based programming		1	X	3	0	PG	1	5	3			1+3+1	
IPMSEK-20fi4CNCPEG	CNC programming		2	X	2	0	PG	1	5	3			2+2+1	
IPMSEK-20fi4DMEG	Data Mining L+Pr		2	X	2	0		1	5	3			2+2+1	
IPMSEK-20fi4DFLAB1	Digital Factory Lab I		0		4	0	PG	1	5	3			0+4+1	
IPMSEK-20fi4DFLAB2	Digital Factory Lab II.		0		4	0	PG	1	5	3			0+4+1	
	<b>Compulsory course credits</b>								<b>67</b>					
	Optional course								<b>8</b>	1,2,3	3+0+0	3+0+0	2+0+0	
IPMSEK-20fTHCONS	Thesis consultation								<b>30</b>	<b>4</b>				<b>signature</b>
	<b>Total number of credits in a semester</b>										<b>30</b>	<b>33</b>	<b>27</b>	<b>30</b>
	<b>Total number of credits</b>								<b>120</b>					

CA: Practice with continuous assessment