For all the courses it is required to take the lecture and the seminar/labcourse together. The prerequisite for the exam is to obtain the term mark first.

Name of the program: Computer Science MSc		Program Coordinator:	Zoltán Fülöp		semester						
					0	1	2	3	4		
						number of contact hours					
course code	title and type of the course	responsible	prerequisite							credit	type of exam
Mandatory mathematical and computer science studies. Minimum requirement is 23 credits.											
MMEN101E	Graph theory lecture	Hajnal, Péter				2				3	exam
MMEN101G	Graph theory practice	Hajnal, Péter				2				1	term mark
IMEN101E	Automata and Formal languages lecture	Fülöp, Zoltán				2				3	exam
IMEN101G	Automata and Formal languages practice	Fülöp, Zoltán				1				1	term mark
IMEN105E	On-line algorithms lecture	Németh, Tamás				2				3	exam
IMEN105G	On-line algorithms practice	Németh, Tamás				1				1	term mark
IMEN108E	Advanced approximate and symbolic computations lecture	Csendes, Tibor					2			3	exam
IMEN108G	Advanced approximate and symbolic computations lab	Csendes, Tibor					1			1	term mark
IMEN102E	Application of Linear programming lecture	Blázsik, Zoltán				2				3	exam
IMEN102G	Application of Linear programming practice	Blázsik, Zoltán				1				1	term mark
Elective courses (one of them is mandatory):											
IMEN111E	Mathematical foundations of logic and functional programming lecture	Iván, Szabolcs						2		3	exam
IMEN075E	Artificial neural networks and their applications	Tóth, László					2			3	exam
Sum of credits:										**23**	
Elective core studies in mathematics and computer science. Minimum requirement is 13 credits.											
MMEN102E	Analysis lecture	Makay, Géza					2			3	exam
MMEN102G	Analysis practice	Makay, Géza					2			2	term mark
IMEN221E	Game theory lecture	Pluhár, András						2		3	exam
IMEN221G	Game theory practice	Pluhár, András						1		1	term mark
IMEN223E	Nonlinear programming lecture	Szabó, Péter Gábor						2		3	exam
IMEN223G	Nonlinear programming lab	Szabó, Péter Gábor						1		1	term mark
IMEN210E	Data mining lecture	Farkas, Richárd					2			3	exam
IMEN210G	Data mining practice	Farkas, Richárd					2			2	term mark
IMEN704E	Tree automata lecture	Fülöp, Zoltán		2						3	exam	spring
IMEN704G	Tree automata practice	Fülöp, Zoltán		1						1	term mark	spring
Sum of credits:										**22**	
Mandatory computer science studies. Minimum requirement is 24 credits.											
IMEN103E	Advanced programming lecture	Ferenc, Rudolf				2				3	exam
IMEN103G	Advanced programming lab	Ferenc, Rudolf				2				2	term mark
IMEN104E	Advanced image processing lecture	Palágyi, Kálmán				2				3	exam
IMEN104G	Advanced image processing lab	Palágyi, Kálmán				1				1	term mark
IMEN106E	Machine learning lecture	Csirik, János					3			4	exam
IMEN106G	Machine learning practice	Csirik, János					1			2	term mark
IMEN107E	Advanced graphical algorithms lecture	Nagy, Antal					2			2	exam
IMEN107G	Advanced graphical algorithms lab	Nagy, Antal					1			2	term mark
IMEN109E	Program systems development lecture	Bilicki, Vilmos					2			3	exam

IMEN109G	Program systems development lab	Bilicki, Vilmos				2			2	term mark	
Sum of credits:									**24**		

Elective computer science studies. Minimum requirement is 24 credits.

Code	Title	Instructor	Prereq						Credit	Eval	Season
IMEN293E	Image registration lecture	Tanács, Attila		2					2	exam	spring
IMEN293G	Image registration lab	Tanács, Attila		1					2	term mark	
IMEN241E	Embedded systems lecture	Kiss, Ákos		2					3	exam	autumn
IMEN241G	Embedded systems lab	Kiss, Ákos		2					2	term mark	
IMEN702e	Parallel programming lecture	Kertész, Attila		2					3	exam	
IMEN702g	Parallel programming practice	Kertész, Attila		2					2	term mark	
IMEN249E	Software development lecture	Alexin, Zoltán		2					3	exam	spring
IMEN249G	Software development lab	Alexin, Zoltán		2					2	term mark	
IMEN703	Legal, Ethical and Informatics Issues of Personal Data Protection lectur	Alexin, Zoltán		2					3	exam	autumn
IMEN901E	Network Science lecture	Vinkó, Tamás		2					3	exam	autumn
IMEN298E	Computer Vision lecture	Kató, Zoltán		2					2	exam	autumn (biennially), minimum 5 students
IMEN298G	Computer Vision lab	Kató, Zoltán		1					2	term mark	
IMEN269E	Distributed Application Development lecture	Alexin, Zoltán		2					3	exam	autumn
IMEN269G	Distributed Application Development lab	Alexin, Zoltán		2					2	term mark	
IMEN001E	Special course 1. (lec+lab) lecture			2					4	exam	
IMEN001G	Special course 1. (lec+lab) lab			1					0	term mark	
IMEN002E	Special course 2. (lec+pra) lecture			2					4	exam	
IMEN002G	Special course 2. (lec+pra) gy			1					0	term mark	
IMEN003E	Special course 3. (lec) lecture			2					3	exam	
IMEN004E	Special course 4. (lec+lab2) lecture			2					5	exam	
IMEN004G	Special course 4. (lec+lab2) lab			2					0	term mark	
IMEN005E	Special course 5. (lab) lab			4					4	term mark	
Sum of credits									**54**		

Thesis work. Minimum requirement is 30 credits.

Code	Title		Prereq						Credit	Eval
new code	Thesis work 1. practice					2			10	term mark
new code	Thesis work 2. practice		Thesis work 1.				5		20	term mark
Sum of credits									**30**	

Internship

IMEN320G	Professional practice (6 weeks)			240		0	signature

Free choice courses. Minimum requirement is 6 credits.

KMENSZV00E	Elective chemistry lecture			2		2	exam
XM0011	Special course MA, MSc lecture			2		2	exam
XN0011	Language course (8x2) practice			0		0	signature
XN0141	Language course with credit practice			2		2	term mark

Summary

Mandatory mathematics and computer science studies	23
Elective mathematics and computer science studies	13
Mandatory informatics studies	24
Elective informatics studies	24
Free choice	6
Thesis work	30
Sum of credits	**120**