

School of Informatics and Engineering

Master's program in Informatics

Study Plan

#	Subject Code	Program Components	Admission	Semester	ECTS Credits	Time		
			Prerequisite			Contact	Independent	Total
	Study Component							
	Compulsory Courses - 72 Credits							
1	MEI 910	Database design and management systems	N/A	I	6	51	99	150
2	MEI 805	R-programming technologies	N/A	I	6	51	99	150
3	MEI 922	Data analysis – cybersecurity, defense and attack	N/A	I	6	51	99	150
4	MEI 607	Content management systems	N/A	I	6	51	99	150
5		Subject from selective study courses		I	6	51	99	150
6	MEI 612	Decision making support systems	N/A	II	6	51	99	150
7	MEI 933	Database management with C# application	MEI 910	II	6	51	99	150
8	MEI 613	IT project management	N/A	II	6	51	99	150
9	MEI 608	Appliet statistics (Advanced)	N/A	II	6	51	99	150
10		Subject from selective study courses		II	6	51	99	150
11	MEI 609	Software testing automation technologies	N/A	III	6	51	99	150
12	MEI 934	Web based development (WEB API,ASP.NET MVC)	MEI 933	III	6	51	99	150
13	MEI 610	Angular development	N/A	III	6	51	99	150
14	MEI 509	Web and multimedia project management	N/A	III	6	51	99	150
15		Subject from selective study courses		III	6	51	99	150
16		Subject from selective study courses		IV	6	51	99	150

Practical component - 6 Credits								
17	MEI 916 s5 MEI 311	1. Practical use of computer technologies; or 2. Production of PR and advertising products, creative and audiovisual advertising;	Compulsory 75 credits	IV	6	51	174	225
Research component - 18 Credits								
18	MEI 915	Bachelors' project – qualification paper (w presentation)	Compulsory 75 credits	IV	18	51	399	450
Selective study courses – required to earn 24 credits (out of 78 credits)								
19	MEI 304	Machine learning in PYTHON environment	N/A	II	6	51	99	150
20	MEI 611	Research project design and management	N/A	III	6	51	99	150
21	MEI 612	Intelligent decision-making systems	N/A	III	6	51	99	150
22	MBAE 6005	Project management	N/A	I_IV	6	51	99	150
23	MBAC200 2	Management information systems	N/A	I_IV	6	51	99	150
24	MBAC 5001	Marketing management	N/A	I_IV	6	51	99	150
25	MEI 305	Web and multimedia project engineering (UX Design)	N/A	I_IV	6	51	99	150
26	MEI 301	Search technologies and marketing	N/A	I_IV	6	51	99	150
27	MBAE 6018	Creativity and problem solving in management	N/A	I_IV	6	51	99	150
28	MBAE 6010	Human resource management	N/A	I_IV	6	51	99	150
29	MBAC 6002	Strategic management	N/A	I_IV	6	51	99	150

30	MEI 307	Web and multimedia project management	N/A	I_IV	6	51	99	150
31	MEI 931	Advertising technologies and strategic communications	N/A	I_IV	6	51	99	150
Free Component (72 Credits)								
Compulsory study courses of the free component (42 Credits in total)								
32	MBAE 5030	Integrated marketing communications	N/A	I_IV	6	51	99	150
33	MBAE6007	Leadership for managers	N/A	I_IV	6	51	99	150
34	MEI 102	Service-oriented architecture, cloud technology	N/A	I_IV	6	51	99	150
35	MEI 205	3D modeling and design	N/A	I_IV	6	51	99	150
36	MEI 300	Scientific-educational electronic systems	N/A	I_IV	6	51	99	150
37	MEI 101	Multimedia systems, algorithms and standards	N/A	I_IV	6	51	99	150
38	MEI 932	Copywriting	N/A	I_IV	6	51	99	150
Selective study courses of the free component (30 Credits in total)								
39	FOL 101	Foreign Language C1 - I		II	6	51	99	150
40	FOL 102	Foreign Language C1 - II		III	6	51	99	150
41	MEI 035	Academic writing and stylistics	N/A	III	6	51	99	150
42	MEI 801	Psychologic adaptation skills	N/A	I_IV	6	51	99	150
43	MBAE4001	Investment analysis and portfolio management	N/A	I_IV	6	51	99	150
		within the framework of any educational program of the second level			6			

Map of goals and results

#	Program Goals	Program Result
1	To prepare a highly qualified specialist with deep and systemic knowledge, who is ready for practical and research activities in various fields of application of informatics and information technologies;	Describes the use of information and communication technologies in various practical and research fields;
2	Train specialists equipped with the knowledge and skills relevant to market requirements, with the ability to develop, manage and implement web and multimedia projects in various fields of science, engineering, education, and commerce;	Explains the need to implement projects that meet market requirements;
3.	Develop the ability to make professional innovative decisions related to the research and analysis of existing systems and introduction of the latest technologies.	Uses information and communication technologies in various scientific, engineering, educational and commercial research or practical projects;
4.	Develop students' ability to take initiative, focus quickly and make effective decisions, develop group solutions;	Analyzes the results of the feasibility study of the existing systems; Evaluates the results of solutions for introduction of the latest technologies;
5.	Develop the ability to communicate with academia or the professional community in an appropriate format;	Offers their conclusions, arguments and research methods to the academic and / or professional community based on the academic integrity, and taking into account academic achievements;
6.	To develop the skills for independent scientific-research work in order to continue study at the next level.	Develops a plan for designing, management and implementation of projects in the fields of education, science, technology and commerce;
7.	To prepare a competitive specialist for a proper career, motivated for more professional achievements in both national and international markets.	Plans, defines and manages their own areas of permanent study in order to enrich their professional knowledge and experience;

Map of learning outcomes

Code	Courses	1	2	3	4	5	6	7	8
MEI 307	Technologies of Web and Multimedia Project	☒	☒						
MEI 910	Database scheming and Management Systems	☒	☒	☒					
MEI 607	Systems of Content Management	☒	☒	☒					
MEI 603	Instruments of Business Analytics	☒	☒	☒	☒				
MEI 104	Artificial Intelligence		☒	☒	☒				
MEI 203	Designing E-business systems				☒	☒	☒		
MEI 301	Research Technology and Marketing system				☒	☒			
MEI 304	Machine learning in PHYTON	☒		☒					
MEI 303	Computer Modeling of making a Resolution					☒	☒		
MEI 805	R-Programming	☒							
MEI 409	Information Protection and Security	☒		☒	☒				
MEI 509	Management of the Web and Multimedia Projects				☒	☒	☒		
MEI 606	Visual Basic for applications	☒		☒	☒				
MEI 605	Operational systems	☒		☒					
MEI 305	Engineering of Web and Multimedia Project UX Design)	☒	☒	☒		☒	☒		
MEI 103	Web Platforms and their Combination	☒							☒
MEI 102	Service-oriented Architecture, Cloud Technology			☒	☒				
MEI 101	Multimedia Systems, their Algorithms and Standards	☒		☒	☒				
MEI 300	Scientific-educational Electronic Systems	☒	☒	☒	☒				
MEI 205	3D Modeling and design			☒		☒			
MEI 306	Animation in Web Space								

MEI 201	Animation in Multimedia Design			☒		☒			
MEI 206	Ad Design Technologies			☒	☒	☒			
MEI 308	Deciphering of Web and Multimedia Projects		☒	☒	☒	☒	☒		
MBAC2002	Informational Systems of Management				☒	☒			
MBAC 5001	Marketing Management				☒	☒			
MBAC6001	Operation Management				☒	☒			
MBAC6002	Strategic Management				☒	☒			
MBAE4001	Investment Analysis and Portfolio Management				☒	☒		☒	
MBAE4007	Real Options Strategic Investments				☒	☒		☒	
MBAE5009	Advertising Strategies	☒			☒	☒		☒	
MBAE5012	Public relations: theory and Practice							☒	☒
MBAE 5030	Integrated Marketing Communications						☒	☒	
MBAE 6005	Project Management				☒		☒		
MBAE6007	Leadership for Managers		☒		☒			☒	
MBAE 6010	Human Resource management		☒		☒			☒	
MBAE6012	Conflict Management and Negotiations				☒				
MBAE6018	Creativity and Problem Solving in Management					☒	☒	☒	
MEI 801	Group Psychology Aimed at personal Growth		☒					☒	☒
MEI 511	Psychology of Creative Thinking							☒	☒
MEI 106	Theory of Advertising and Perception		☒						☒
MEI 912	Sketching and Concepts								☒
MEI 108	Color and Composition in Multimedia Project						☒		
MEI 302	Visual Communications in Social Environment						☒		
MEI 310	From Stage to Publication						☒		
FOL 101	Foreign language C1-I							☒	
FOL 102	Foreign language C1-II							☒	
MEI 035	Academic Writing and Stylistics							☒	
MEI 916	Practical Component			☒	☒	☒			
MEI 915	Master's Project			☒			☒	☒	☒