Recomended pass through the study plan

Name of the pass: Master branch Web and Software Engineering, spec. Info. Systems and Management, in Czech, 2016-2019

Faculty/Institute/Others:

Department:

Pass through the study plan: Master branch Web and Software Engineering, spec. Info. Systems and

Management, in Czech, 2016-2019

Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Informatics, valid until 2024 Type of study: Follow-up master full-time

Note on the pass: Poznámka k 2. semestru: Zapíšete-li si p edm t MI-IKM jako alternativu k MI-ADM.16, musíte zbývající jeden kredit p idat z volitelných p edm t .# Opakovan p ijatým student m:# Pro uznání p edm tu MBI musí mít student oba p edm ty RIC a SIN.# Máte-li uznaný p edm t FRI, m žete požádat o uznání zápo tu z p edm tu SBI a pak složit rozdílové zkoušky.# Jako volitelné p edm ty lze zapisovat oborové p edm ty sousedních obor a zam ení#

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
MI-MPI	Mathematics for Informatics Št pán Starosta	Z,ZK	7	3P+2C	Z	PP
MI-PAA	Problems and Algorithms Petr Fišer	Z,ZK	5	2P+1R+1C	Z	PP
MI-MDW.16	Web Services and Middleware	Z,ZK	5	2P+1C	Z	PO
MI-MEP.16	Modelling of Business Processes Robert Pergl	Z,ZK	5	2P+1C	Z	PZ
MI-V.2017	ist volitelné magisterské p edm ty, verze 2017 MI-IKM,MI-AFP, (see the list of groups below)	Min. cours.	Min/Max 0/0			V

Number of semester: 2

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
MI-PDP.16	Parallel and Distributed Programming	Z,ZK	5	2P+2C	L	PP
MI-SPI.16	Statistics for Informatics	Z,ZK	7	4P+2C	L	PP
MI-PIS.16	Advanced Information Systems	Z,ZK	5	2P+1C	L	PZ
MI-PCM.16	Project And Change Management	KZ	3	1P+2C	Z,L	PZ
MI-MBI.16	Management of Business Informatics	Z,ZK	5	3P+1C	L	PZ
		Min. cours.				
	Dopln k povinných p edm t magisterského zam ení Informa ní systémy a management	1	Min/Max			D.7
IVII-PZ-IOIVI-ADIVI_A_IKIVI	Informa ni systèmy a management MI-IKM,MI-ADM.16, (see the list of groups below)	Max. cours.	4/9			PZ
		2				

Number of semester: 3

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
MI-MPR	Master Project	Z	7		Z,L	PP
MI-SMI.16	Strategic Management of Informatics	Z,ZK	5	3P+1C	Z	PZ
MI-TES.16	Systems Theory	Z,ZK	5	2P+1C	Z	PZ
MI-PV-EM.2016	Povinn volitelné magisterské ekonomicko manažerské p edm ty, verze 2016 FI-VEZ,MI-IBE, (see the list of groups below)	Min. cours. 1 Max. cours. 2	Min/Max 2/6			VE
MI-V.2017	ist volitelné magisterské p edm ty, verze 2017 MI-IKM,MI-AFP, (see the list of groups below)	Min. cours.	Min/Max 0/0			٧

Number of semester: 4

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
MI-DIP	Diploma Project	Z	23		L,Z	PP
MI-PV-HU.2016	Povinn volitelné magisterské humanitní p edm ty, verze 2016 NI-CAP,FI-FIL, (see the list of groups below)	Min. cours. 1 Max. cours. 2	Min/Max 3/6			VH
MI-V.2017	ist volitelné magisterské p edm ty, verze 2017 MI-IKM,MI-AFP, (see the list of groups below)	Min. cours.	Min/Max 0/0			V

List of groups of courses of this pass with the complete content of members of individual groups

Kód		Name of the group of group (for specificat	of courses ar	nd codes of members of this or below the list of courses	Com	pletion	Credi	ts Scope	Semester	Role
MI-PV-	EM.2016	Povinn volitelné	magisterské o edm ty, ve	ekonomicko manažerské rze 2016		cours. 1 cours. 2	Min/M 2/6			VE
FI-VEZ	economic-	managerial course from	MI-IBE	Information Security		MI-MPX	l	Management	practice	
MI-PCM.16	Project And	d Change Management	MI-SEP	World Economy and Business					-	
MI-PV-	HU.2016	Povinn volitelné r	nagisterské l 2016	humanitní p edm ty, verze		cours. 1 cours. 2	Min/M 3/6			VH
NI-CAP	Cultural an	d Social Anthropology	FI-FIL	Philosophy		MI-HMI2	ı	History of Ma	thematics and I	nfor
FI-HTE		Technology and Econom	FI-HPZ	Humanities subject from a study		MI-KYB.	16	Cybernality		
FI-MPL	Manageria	I Psychology	FI-KSA	Cultural and Social Anthropology		FI-ULI		Introduction to	Linguistics for	
			•		Min.	cours.				
MI-PZ-ISM-	-ADM_A_IKM			magisterského zam ení a management	May	1	Min/M			ΡZ
MI-PZ-ISM-	·ADM_A_IKM			magisterského zam ení a management	Max.					PZ
_					Max	1 cours.			Mining	PZ
MI-IKM		d Classification Meth	MI-ADM.16	a management		1 cours. 2	4/9	Practical Data	Mining	PZ V
MI-IKM MI-V	Internet an	d Classification Meth	MI-ADM.16	a management Data Mining Algorithms		1 cours. 2 MI-PDM cours.	4/9 Min/M	Practical Data	Mining f computer gan	v
MI-IKM MI-V MI-IKM	Internet an V.2017 Internet an	d Classification Meth ist volitelné	MI-ADM.16 magisterské	Data Mining Algorithms p edm ty, verze 2017		1 cours. 2 MI-PDM cours. 0	4/9 Min/M	Practical Data		V
MI-IKM MI-V MI-IKM MI-BML	Internet an V.2017 Internet an Bayesian N	d Classification Meth ist voliteIné d Classification Meth	MI-ADM.16 magisterské	Data Mining Algorithms p edm ty, verze 2017 Applied Functional Programming		1 cours. 2 MI-PDM cours. 0 MI-APH	4/9 Min/M	Practical Data Architecture of Database Sys	f computer gan	V nes
MI-IKM MI-V MI-IKM MI-BML MI-DZO	Internet an J.2017 Internet an Bayesian N Digital Image	d Classification Meth ist voliteIné d Classification Meth Methods for Machine Lea	MI-ADM.16 magisterské MI-AFP MI-BPS	a management Data Mining Algorithms p p edm ty, verze 2017 Applied Functional Programming Wireless Computer Networks	Min.	1 cours. 2 MI-PDM cours. 0 MI-APH MI-DSP	4/9 Min/M 0/0	Practical Data Architecture of Database Systems Preprint	of computer gan	V nes S
MI-IKM	Internet an J.2017 Internet an Bayesian N Digital Image Games and	d Classification Meth ist voliteIné d Classification Meth Methods for Machine Lea ge Processing	MI-ADM.16 magisterské MI-AFP MI-BPS MI-DDM	a management Data Mining Algorithms p p edm ty, verze 2017 Applied Functional Programming Wireless Computer Networks Distributed Data Mining	Min.	1 cours. 2 MI-PDM cours. 0 MI-APH MI-DSP MI-PAM	4/9 Min/M 0/0	Practical Data Architecture of Database Systems Preprint	f computer gan stems in Practes rocessing and F shematics and I	V nes S

MI-LOM.16	Linear Optimization and Methods	MI-MSI	Mathematical Structures in Compu	MI-MZI	Mathematics for data science
NI-MOP	Modern Object-Oriented Programmi	MI-MPC	Modern programming in C ++	MI-MAI	Multimedia and Internet
MI-OLI	Linux Drivers	MI-ARI	Computer arithmetic	NI-PG1	Computer Grafics 1
MI-PVR	Advanced Virtual Reality	NI-AML	Advanced machine learning	MI-IOS	Advanced techniques in iOS appli
MI-PVS	Advanced embedded systems	MI-DNP	Advanced .NET	MI-PYT	Advanced Python
MI-PRC	Programming in CUDA	MI-PSL	Programming in Scala	MI-RUB	Programming in Ruby
MI-ROZ.16	Pattern Recognition	MI-RRI	Risk Management in Informatics	MI-SCE1	Computer Engineering Seminar Mas
MI-SCE2	Computer Engineering Seminar Mas	MI-SZ1	Knowledge Engineering Seminar Ma	PI-SCN	Seminars on Digital Design
MI-SCR	Statistical Analysis of Time Ser	BI-SOJ	Machine Oriented Languages	MI-TS1	Theoretical Seminar Master I
MI-TS2	Theoretical Seminar Master II	MI-TS3	Theoretical Seminar Master III	MI-TS4	Theoretical Seminar Master IV
MI-TNN	Theory of Neural Networks	MI-VEM	Scientific thinking	MI-MCS	Multicore Systems
MI-VYC	Computability	NI-VPR	Research Project	MI-ZS10	Master internship abroad for 10
MI-ZS20	Master internship abroad for 20	MI-ZS30	Master internship abroad for 30		

List of courses of this pass:

Code	Name of the course	Completion	Credits
BI-SOJ	Machine Oriented Languages	Z,ZK	4
	ourse will gain an ability to create their own programs in the assembly language of the most common PC platform focusing on optimal us		
and efficient coop	eration of software with hardware. Next, there will be discussed x86 specifics of the majority of OSes from the application point of view lir	nked to higher leve	l languages
	This knowledge will be used during reverse engineering, optimization, and evaluation of code security.		1
FI-FIL	Philosophy	ZK	2
	see A0B16		
FI-HPZ	Humanities subject from a study abroad	Z	3
A "Humanities su	bject that has been studied abroad" is covered by the Humanities subject from a study abroad in Compulsory Humanities Module that	is required in the	curriculum.
	The substitution is approved by the Vice-Dean for study affairs on behalf of the Dean at the request of the student.		
FI-HTE	History of Technology and Economics	ZK	2
The course introd	uces the scientific disciplines of history and technology, economic and social history of the Czech lands and Czechoslovakia in compa	arison with the dev	elopment of
	the European region 19 to 21 century .		
FI-KSA	Cultural and Social Anthropology	ZK	2
The one-semeste	r course aims to acquaint students with the basics of social and cultural anthropology as a scientific discipline dealing with the diversit	y of the world - exa	amples from
anthropological re	esearch from our "exotic" cultures (topics: kinship, religion, social exclusion, migration, globalization, , material culture, language, healtl	n, history, death, e	tc) will be
	shown. The course is an interesting alternative to other humanities, taught at FIT.		
FI-MPL	Managerial Psychology	ZK	2
FI-ULI	Introduction to Linguistics for Computer	ZK	2
	This course is presented in Czech.		
FI-VEZ	economic-managerial course from a study abroad	Z	4
A "Humanities su	bject that has been studied abroad" is covered by the Humanities subject from a study abroad in Compulsory Humanities Module that	is required in the	curriculum.
	The substitution is approved by the Visa Dana factor to the office on behalf of the Dana of the second of the student		
	The substitution is approved by the Vice-Dean for study affairs on behalf of the Dean at the request of the student.		
MI-ADM.16	Data Mining Algorithms	Z,ZK	5
		•	
The course focus	Data Mining Algorithms	should know mach	ine learning
The course focus	Data Mining Algorithms es on algorithms used in the fields of machine learning and data mining. However, this is not an introductory course, and the students asis is put on advanced algorithms (e.g., gradient boosting) and non-basic kinds of machine learning tasks (e.g., recommendation syst methods).	should know mach	ine learning
The course focus basics. The emph	Data Mining Algorithms es on algorithms used in the fields of machine learning and data mining. However, this is not an introductory course, and the students asis is put on advanced algorithms (e.g., gradient boosting) and non-basic kinds of machine learning tasks (e.g., recommendation systems).	should know mach ems) and models KZ	ine learning (e.g., kerne
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The course focus basics. The emph MI-AFP This course is prethe rise nowaday MI-APH Students will gain component-orient MI-ARI MI-ATH MI-BML The subject is focus models providing from noisy observed.	Data Mining Algorithms as on algorithms used in the fields of machine learning and data mining. However, this is not an introductory course, and the students asis is put on advanced algorithms (e.g., gradient boosting) and non-basic kinds of machine learning tasks (e.g., recommendation syst methods). Applied Functional Programming seented in Czech. Functional programming represents one of the traditional programming paradigms. Traditional and novel functional program the functional paradigm becomes an important construct of traditionally imperative languages (C++, C#, Java). As such, master necessary competence of a software engineer: the theory and especially the practice. Architecture of computer games a basic understanding of the various issues in the field of computer game development, from both the technical and creative points of ed architecture, game mechanics, and game AI that form an integral part of most games. They will also understand the basics of pathfine and apply them in practical exercises (labs). Computer arithmetic Students will learn various data representations used in digital devices and will be able to design arithmetic operations implementated to compute the process of the p	kenshould know machems) and models KZ rogramming languing this paradigm Z,ZK view. They will geding, networking, a Z,ZK tion units. Z,ZK the construction of variables (true objective of real working).	ine learning (e.g., kerne 5 ages are on becomes a 4 t a grasp on and scripting 4 5 appropriate ect position Id examples
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MI-DDM	Distributed Data Mining	KZ	4
	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of	•	- 1
data processing fra	amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language.	nd will be capable	to propose
MI-DIP	Diploma Project	Z	23
MI-DIP	Advanced .NET	Z,ZK	4
	e a knowledge about advanced desgin of applicatios on a .NET platform. They gain skills of WPF (Windows Presentation Foundation	, ,	- 1
-	mmunication Foundation) and Entity Framework. They are able to apply these skills on a development and desgin of advanced .NET		
MI-DSP	Database Systems in Practes	Z,ZK	4
'	This course is presented in Czech.		
MI-DZO	Digital Image Processing	Z,ZK	4
•	nts a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical alg		- 1
•	e an interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also		
	processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray conv	•	- 1
	gid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, ac		
MI-GLR	Games and reinforcement learning	Z,ZK	4
The field of reinford	cement learning is very hot recently, because of advances in deep learning, recurrent neural networks and general artificial intelligen		ntended to
	give you both theoretical and practical background so you can participate in related research activities. Presented in English		
MI-HMI2	History of Mathematics and Informatics	ZK	3
Selected topics {In	ifinitesimal calculus, probability, number theory, general algebra, different examples of algorithms, transformations, recursive functions	s, eliptic curves, et	c.) note on
MI-IBE	possibilities of applications of some mathematical methods in informatics and its development. Information Security	ZK	2
	rmation and IS/ICT security management systems (ISMS), methods for information access control, and basic norms and internation	l l	
	d methods for management of internal and external security threats, for IS/IT security audits, and for application security testing (e.g.		- 1
MI-IKM	Internet and Classification Methods	Z,ZK	4
In this course, the s	students get acquainted with classification methods used in four important internet, or generally network applications: in spam filtering		on systems,
	on systems and in intrusion detection systems. However, they will learn more than only how classification is performed when solving		.
-	l of these applications, they get an overview of the fundamentals of classification methods. The course is taught in a 2-weeks cycle w During the exercises, the students on the one hand implement simple examples to topics from the lectures, on the other hand consult		
MI-IOS	Advanced techniques in iOS applications	KZ	4
	the latest trends in mobile development technologies for iOS platform. Class covers advanced topics, students need to know all the ba		-
	BI-IOS.		
MI-IOT	Internet of Things	Z,ZK	4
· · · · · · · · · · · · · · · · · · ·	ocused on the area of hardware and software technologies for the strongly growing computer support of various devices. Its goal is fa		vailable
	development elements (Raspberry Pi, Arduino Due) and with the language for efficient application development and modification (Gl		
MI-IVS	Intelligent embedded systems ed systems course for master's degree is focused on high-level technology embedded systems integrating artificial intelligence. The	KZ	4
-	mbedded systems fundamentals course for the bachelor degree. The aim of the course is to teach students humanoid robot programm		
•	res provide basis of motion control, sensor reading, application interfaces, robot navigation and development tools. In labs, students of	ŭ	
	combining knowledge of various courses like nature inspired algorithms, data mining algorithms, image recognition and web technologies.	nologies	
MI-KYB.16	Cybernality	ZK	5
	uainted with the fundamentals of legislation and international activities in the area of fighting cybercrime. Students will understand the		
	f systems for computer surveillance and traffic monitoring in the cyberspace. Students will also familiarize themselves with hacker activ vill also discuss the cooperation of the state agencies and subjects dealing with defence of the cyberspace (especially CSIRT and CE		The course
MI-LOM.16	Linear Optimization and Methods	Z,ZK	5
	applications of optimization methods in computer science, economics, and industry. They are aware of practical importance of linear a		
	th optimization software and are familiar with languages used in programming of that software. They get skills in formalization of optin		1
	scheduling of tasks to processors, analysis of network flows), distribution and allocation of resources (transportation problems, travelli	-	
issues from econor	mics, and modelling of conflicts via the game theory. They get an overview of computational complexity of optimization problems. The	y get orientation in	algorithms
MI-MAI	in linear programming. Multimedia and Internet	Z,ZK	3
	er principles and technologies for processing and network transmissions of multimedia signals, stereoscopy and visualizations in high		
	networked multimedia, transmission formats, interfaces, codecs, technologies for acquisition and reproduction of multimedia data and		
	and distributed collaboration using networking and immersive environments.		
MI-MBI.16	Management of Business Informatics	Z,ZK	5
	This course is presented in Czech.		
MI-MCS	Multicore Systems	KZ	Thoy loarn
	nd architecture of systems based on multicore processors with multiple threads per core, structure and usage of cache hierarchy with lassification, parallel programming technics, simulation and monitoring tools for measurement and optimization of parallel algorithms.		- 1
-	rams (Multiple Threads Multiple Data), measure and analyze latency and throughput of parallel algorithms and optimize them for con		
MI-MDW.16	Web Services and Middleware	Z,ZK	5
	ew trends and technologies in the area of service-oriented architectures, web services, middleware, and cloud computing, including t		ckground.
MI-MEP.16	Modelling of Business Processes	Z,ZK	5
The subject is f	ocused on introduction to the discipline of Enterprise Engineering. Students learn the importance of a proper methodological approach	ch for (re)engineer	ing and
MIMPO	implementation of processes, organisation structures and information support in big enterprises and institutions.	7 71/	
MI-MPC Students learn how	Modern programming in C ++ to use the modern features of contemporary versions of the C++ programming language for software development. The course focus	Z,ZK	5
	iciency in the form of writing maintainable and portable source code and creating correct programs with low memory and processor ti		ig eliectivity
	, and processes are processes and processes	1	

MI-MPI	Mathematics for Informatics	Z,ZK	7
	orises topics from general algebra with focus on finite structures used in computer science. It includes topics from multi-variate analysts	•	
	ation. The third large topic is computer arithmetics and number representation in a computer along with error manipulation. The last top		
	r stability analysis. The topics are completed with demonstration of applications in computer science. The course focuses on clear pre		
MI-MPR	Master Project		7
	gof the semester, a student reserves her/his final thesis topic and gets together with its supervisor. Together they decide on partial ta er. If the requirements they agreed upon are met, the supervisor awards the student an assessment for the course MI-MPR at the er		
-	r) supervisor fills his/her assessment into the paper "Form to award assessment by an external Final theses (FT) supervisor" (for the		
	s, then, ensure that the assessment is registered into the information system (IS) by asking their internal FT opponent to award the a		
the confirmation of	the external MT supervisor. In the case the FT opponent is external as well, the assessment will be registered to the IS by the head $\frac{1}{2}$	of the department	responsible
for the topic of the	MT. 3. If the FT topic that the student has reserved is rather general, the immediate tasks the supervisor assigns to the student for the	ne upcoming semes	ster should
141 145V	aim at fine-tuning the FT topic so that the FTT will be complete and approvable at the end of the semester.		
MI-MPX	Management practice	Z	4
	nce, within its master's degree graduate (to apply) management practices in the selected subject of practice (business subject) on the conent (typically at the position of project manager, middle or top manager). The selected subject of practice and professional filling is a	-	- 1
-	In the selected subject of practice may not have a substantial ownership interest or substantial decision-making influence of the rela		
J	member of the top management).		` 0
MI-MSI	Mathematical Structures in Computer Science	Z,ZK	4
	Mathematical semantics of programming languages.		
MI-MZI	Mathematics for data science	Z,ZK	4
	ents are introduced to those fields of mathematics that are necessary for understanding standard methods and algorithms used in descriptions are introduced to those fields of mathematics that are necessary for understanding standard methods and algorithms used in descriptions.		
include mainly: li	near algebra (matrix factorisations, eigenvalues, diagonalization), continuous optimisation (optimisation with constraints, duality princ	iple, gradient meth	ods) and
MI-OLI	selected notions from probability theory and statistics. Linux Drivers	Z,ZK	4
	LITUX DITVETS g system is an important operating system for personal computer and also for embedded systems. Systems on chip and combining po		
	ability of peripheral subsystems requiring specific software drivers. This course is an advanced course in the Linux driver developme		
	urse provides knowledge of Linux operating system architecture, principles of development of various types drivers, including practic		
MI-PAA	Problems and Algorithms	Z,ZK	5
Students are able t	o evaluate discrete problems by complexity and by the purpose of optimisation (on-line tasks, multicriterial optimisation). They under	stand principles and	d properties
	f heuristics and exact algorithms and, therefore, are able to select, apply, and experimentally evaluate a suitable heuristics for a pract		
MI-PAM	Efficient Preprocessing and Parameterized Algorithms	Z,ZK	4
-	optimization problems for which no polynomial time algorithms are known (e.g. NP-complete problems). Despite that it is often necess	-	
	. We will demonstrate that many problems can be solved much more effectively than by naively trying all possible solutions. Often one nputs from practice-e.g., all solutions are relatively small. Parameterized algorithms exploit that by limiting the time complexity expone		
	n the input size (which can be huge). Parameterized algorithms also represent a way to formalize the notion of effective polynomial til		
	sible in the classical complexity. Such a polynomial time preprocessing is then a suitable first step, whatever is the subsequent solution		
plethora of param	eterized algorithm design methods and we will also show how to prove that for some problem (and parameter) such an algorithm (pr	esumably) does no	t exist. We
	will also not miss out the relations to other approaches to hard problems such as moderately exponential algorithms or approximatio		
MI-PCM.16	Project And Change Management	KZ	3
MI-PDM	This course is presented in Czech. Practical Data Mining	Z,ZK	5
	Practical Data Milling roduced to the basic methods of discovering knowledge in data. In particular, they learn the basic techniques of data preprocessing,		
	a transformation, and fundamental principles of knowledge discovery methods. Students will be aware of the relationships between r		
•	ntals of assessing model quality. Data mining software is extensively used in the module. Students will be able to apply basic data min		
	(classification, regression, clustering).		
MI-PDP.16	Parallel and Distributed Programming	Z,ZK	5
-	ment of cloud, web, and communication technologies and due to the shift of the Moore law into multicore and manycore CPUs, paral		
•	quitous. Students get acquainted with architectures of parallel and distributed computing systems, their models, theory of interconnect		~ ~
and environments i	or parallel programming of shared and distributed memory computers. On selected problems, they will learn the techniques of design of algorithms and methods of performance evaluation of their implementations.	n emcient and scala	able parallel
MI-PIS.16	Advanced Information Systems	Z,ZK	5
	notion of business process logic and its formalization, with business process roles, business rules, and data processing, with the notion		
	s and service solution of business logic. They get acquainted with these notions also for the other types of ISs. They learn about agili		
artificial intelligend	ce methods for implementation of these ideas in ISs. They understand modern object-oriented methodologies for modelling of busine	ss processes, busir	ness rules,
	processed data, and enterprise ISs. They will get the rules and technologies for successful implementation of IS.		
MI-PRC	Programming in CUDA	Z,ZK	4
	students gain a good overview of present parallel architectures in GPUs. Students also get hands-on experience with programming		
MI-PSL	Programming in Scala	Z,ZK	4
	uces the modern programming language Scala which exploits object-functional paradigm. Scala comprises advance language featur ibrary. Scala enables to use of applications functional patterns e.g. H-List, Monads, etc. Scala is used by many powerful frameworks and		
aavaoo olaaaa	Scalaz, etc.	· ····································	ouoou.iuiu,
MI-PVR	Advanced Virtual Reality	KZ	4
	ces advanced parts of the virtual reality. It is a continuation of the already running graphic objects, especially the creation of 3D mode	I I	mong other
_	students to their application in virtual reality. Lectures will focus on virtual reality technology, its use in various applications and will also	_	
in available 3D eng	ines (mainly Unity3D). The course is freely connected with the subject VHS (virtual game worlds), students will be able to apply the kr	owledge gained in	this subject
MUDVO	in virtual reality, or directly create a complex game for VR.	7 71/	4
MI-PVS	Advanced embedded systems sed on ARM processors and microcontrollers and their usage in wide range of applications. The course includes a series of advance	Z,ZK	ty support
	ised on ARM processors and microcontrollers and their usage in wide range of applications. The course includes a series of advance is storage devices, motor control, system control and industrial communication. The students obtain both theoretical and also practica	-	
	systems.	1 - 220	

MI-PYT	Advanced Python	KZ	4
	urse is to learn various advanced techniques and methods in Python. The course indirectly continues where Programming in Python it has a plustities in least a work in class as well as competed as wearly as the programming in Python.		
very flatius-off affu	it has only tutorials, everything is demonstrated on examples. Classification is based on work in class as well as semestral coursework teachers from Red Hat.	. The course is lead	by external
MI-ROZ.16	Pattern Recognition	Z,ZK	5
	nodule is to give a systematic account of the major topics in pattern recognition with emphasis on problems and applications of the st	1	o pattern
	idents will learn the fundamental concepts and methods of pattern recognition, including probability models, parameter estimation, a		
MI-RRI	Risk Management in Informatics	ZK	3
	ty is very often considered as one of main objectives to secure targets of information processing. However, to focus on this info secur viruses, malware etc. very often means misunderstanding and underestimating of real threats which are around us and which are mo		
	ne necessity to continue with business after disaster is also slightly ignored. International standards which are focused on informatics	-	
	s started to anticipate necessity of risk management. There is no commonly accepted methodology used for this task. Threats which a		ole to see
	ridwide, invoke pressures to prepare plans for business continuity management even in the case of dramatic political changes, natura		
MI-RUB	Programming in Ruby This course is presented in Czech.	KZ	4
MI-SCE1	Computer Engineering Seminar Master I	Z	4
	mputer Engineering is a (s)elective course for students who want to deal with deeper topics of digital design, reliability and resistance to		
	dividually within the subject. Each student or group of students solves some interesting topic with the selected supervisor. Part of the professional literature and/or work in K N laboratories. The capacity of the subject is limited by the possibilities of the seminar teache	-	
articles and other p	semester.	s. The topics are in	ew ioi eacii
MI-SCE2	Computer Engineering Seminar Master II	Z	4
	mputer Engineering is a (s)elective course for students who want to deal with deeper topics of digital design, reliability and resistance to		
	dividually within the subject. Each student or group of students solves some interesting topic with the selected supervisor. Part of the	· ·	
articles and other p	orofessional literature and/or work in K N laboratories. The capacity of the subject is limited by the possibilities of the seminar teache semester.	s. The topics are in	ew ioi eacii
MI-SCR	Statistical Analysis of Time Series	Z,ZK	4
	with the practical use of the basic time series modelling theory in engineering tasks, ranging from economics (stock exchange prices		
	ig of signals and processes) to computer networks (network components load, attacks detection). The students learn to select a conve	•	
	llyze its properties and use it for forecasting of future or intermediate values. The stress is put on understanding and adoption of the ma is. Both the lab classes and the lectures exploit freely available software packages in order to provide easy and straightforward transf		
	the academic to the real world.		
MI-SEP	World Economy and Business	Z,ZK	4
	presented in Czech. However, there is an English variant in the program Informatics (N1801 / 4793). The course introduces students of		-
	ness. It does that predominantly by comparing individual countries and key regions of world economy. Students get to know about dit g business in diverse societies as well as indexes of economic freedom, corruption and economic development, which are needed fo	-	
,	p improve on the knowledge in the form of discussions based on individual readings. It is advised to take bachelor level of this course	•	
MI-SMI.16	Strategic Management of Informatics	Z,ZK	5
	es on the strategic management of information systems. Students will learn the process of creation and implementation of an information of the strategic management of information systems. Students will learn the process of creation and implementation of an information of the strategic management of information systems.		
•	FICT for business and interrelations between information strategies and lobal business strategies. Furthermore, they gain the knowle S/IT, management of investments and ROI, assessment of IT investments and management of human resources in IT (the role of CIC	•	
management et ic	course is the role of project management, risk management and quality assessment of informatics.	,, 0_0, 0. 0,	part 00
MI-SPI.16	Statistics for Informatics	Z,ZK	7
Summary of probab	pility theory; Multivariate normal distribution; Entropy and its application to coding; Statistical tests: T-tests, goodness of fit tests, independent	dence test; Random	n processes
MI-SZ1	- stacionarity; Markov chains and limiting properties; Queuing theory Knowledge Engineering Seminar Master I	Z	4
	ryou will present a research paper from a top institute / research group to your peers. You will learn what is being cooked in top research	1	
	Il learn how to properly present and read scientific papers. The work in the seminar will prepare you to attend (and profit from) top machin		
	and summer schools, as well as FIT's own Summer Research Program (VyLet).		
MI-TES.16	Systems Theory	Z,ZK	5
-	id has the ability to develop systems of incredible complexity (e.g., trains, microprocessors, airplanes, nuclear power plants). Howeve ensuring the correct behavior of a given system have become critical. A key technique for mastering this complexity is the usage of m		
	tems that are important for the task at hand, and automated tools for analyzing those models. This subject will present theory and alg		· ·
	the modeling and analysis of complex systems.		
MI-TNN	Theory of Neural Networks	Z,ZK	4
	study neural networks from the point of view of the theory of function approximation and from the point of view of probability theory. A ial neural Networks, such as neurons and connections between them, types of neurons from the point of view of signal transmission,		
	s, network training, and the role of time in neural networks. In connection with network topology, we get acquainted with its transformation		
	n with somatic and synaptic mappings, with their composition into mappings computed by the Network, Finally in connection with train		
-	ining and to the fact that training is actually a specific optimization task, recalling the most typical objective functions and the most in Il network training. We will see the meaninig of all these concepts in the context of common kinds of forward neural networks. Within the	-	
	rks, we first notice the connection of neural networks to expressing functions of many variables using functions of fewer variables (Ko		
theorem). Afterward	ds, we will see how the universal approximation capacity of neural networks can be mathematically formalized as the sets of mappings	s computed by neur	al networks
-	portant Banach spaces of functions, in particular in the spaces of continuous functions, spaces of functions integrable with respect to		
	tinuous derivatives, and Sobolev spaces. Within the topic probabilistic approach, we first get acquainted with training based on expec Ind with probabilistic assumptions about training data with which those two kinds of neural networks can be employed. We will see how	-	
=	al expectancy of network outputs conditioned by its inputs using the expectancy based learning. We recall the strong and the weak la	-	
•	n analogy of the strong law of large numbers for neural networks and with the assumptions for its validity. Finally, we recall the central		
with its analogy	for neural networks, with the assumptions for its validity and with the hypothesis tests based on it. We will see how those tests can be topology of the network.	employed to searc	on for the
MI-TS1	Theoretical Seminar Master I	Z	4
	r is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classic	1 1	
are treated individu	ially and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a	work with scientific	papers and
	other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar.		

MI-TS2	Theoretical Seminar Master II	Z	4
	is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classical		
are treated individua	ally and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a v other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar.	vork with scientific	papers and
MI-TS3	Theoretical Seminar Master III	Z	4
	is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classical		
	ally and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a v		
	other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar.		
MI-TS4	Theoretical Seminar Master IV	Z	4
	is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classically and concern themselves with interesting topics from the letter received in the creek. Therefore, an integral part of the course is a w		
are treated individua	ally and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a v other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar.	WOLK WILL SCIENTING	papers and
MI-VEM	Scientific thinking	KZ	2
	ne course is to get acquainted with scientific methods and discovery of order and laws of the universe, including the aspects of huma	ı	
scientific methods	in natural sciences, mathematics, computer science and humanities. Another aim is to introduce rules and requirements of scientific	communication via	a research
	papers and posters.	7 714	
MI-VYC	Computability Classical theory of recursive functions and effective computability, with applications in provability theory.	Z,ZK	4
MI-ZS10	Master internship abroad for 10 credits	Z	10
	once within his / her master's degree have a foreign internship at a foreign university or other foreign scientific and/or research institut	- 1	_
	he vice-dean for study affairs assesses the professional content. The student must provide evidence of the professional content and ex		- 1
	MI-ZS20, MI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits correspond to 4 weeks	•	·
a foreign institution	n. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided into two subjects in	if the internship exc	ceeds the
MI-ZS20	academic year's dead-line. Master internship abroad for 20 credits	Z	20
	nnce within his / her master's degree have a foreign internship at a foreign university or other foreign scientific and/or research institut	- 1	_
	he vice-dean for study affairs assesses the professional content. The student must provide evidence of the professional content and ex		- 1
	MI-ZS20, MI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits correspond to 4 weeks		·
a foreign institution	n. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided into two subjects in	if the internship exc	ceeds the
MI-ZS30	academic year's dead-line. Master internship abroad for 30 credits	Z	30
	nnce within his / her master's degree have a foreign internship at a foreign university or other foreign scientific and/or research institut	_ ,	
	he vice-dean for study affairs assesses the professional content. The student must provide evidence of the professional content and ex		- 1
	MI-ZS20, MI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits correspond to 4 weeks	•	-
a foreign institution	n. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided into two subjects i academic year's dead-line.	if the internship exc	ceeds the
NII-AMI		7 7K	5
NI-AML The course introduc	Advanced machine learning	Z,ZK	5 ems, image
The course introduc		ommendation system	ems, image
The course introduc	Advanced machine learning es students to selected advanced topics of machine learning and artificial intelligence. The topics present techniques in the field of rec	ommendation system	ems, image
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NI-VPR	Research Project	Z	5				
	Student obtains the credits for published scientific outputs. The details are at https://courses.fit.cvut.cz/NI-VPR/en.	'					
PI-SCN	Seminars on Digital Design	ZK	4				
This subject deals	This subject deals with problems of realization and implementation of digital circuits - both combinational and sequential. Basic means of description of digital circuits and basic logic						
synthesis and o	optimization algorithms are described. Basics of EDA (Electronic Design Automation) systems are given, together with combinatorial r	roblems emerging	ı in EDA.				

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-18, time 08:13.