FS - Maîtrise universitaire ès sciences en informatique 2012-2013

Cours	Enseignants	Automne	Printemps	Automne	Printemps	Examen	Crédits	
Bloc général plan libre								**TOTAL 90**
Master of Science in Computer Science								**TOTAL 90**
Teaching Units								**TOTAL 60**
General								**TOTAL**
Interdisciplinary Computing	M. Courant	2ph+1ph		2ph+1ph		oral	**5**	
User Centered Design (University of Fribourg)	D. Lalanne A. Lisowska Masson	2ph+1ph		2ph+1ph		écrit	**5**	
Multimodal Interfaces (University of Fribourg)	O. Abou Khaled D. Lalanne E. Mugellini		2ph+1ph		2ph+1ph	écrit	**5**	
Pervasive Computing: Selected Topics	B. Hirsbrunner A. Lisowska Masson A. Malatras		2ph+1ph		2ph+1ph	écrit	**5**	
Social Computing	P. Cudré-Mauroux G. Demartini	2ph+1ph		2ph+1ph		écrit	**5**	
Parallel Architectures	E. Sanchez	2ph+1ph		2ph+1ph		écrit	**5**	
Representations and models: symbols-manipulation and the mind	O. JORAND	2ph		2ph		oral	**5**	
Workshop	P. KROPF H. MERCIER J. SAVOY		4ph		4ph	controle continu	**10**	
Seminar Interaction Design	A. Lisowska Masson	2ph		2ph		controle continu	**5**	
Distributed Systems								**TOTAL**
Mobile Communications	T. Braun	2ph+1ph		2ph+1ph		écrit	**5**	
Network Performance and Modelling	M. Curado		2ph+1ph		2ph+1ph	écrit	**5**	
Distributed Systems	P. KROPF	2ph+2ph		2ph+2ph		écrit	**5**	
Security	H. SANGLARD	2ph+2ph		2ph+2ph		oral	**5**	
Concurrency: Foundations and Algorithms	P. FELBER		2ph+2ph		2ph+2ph	écrit	**5**	
Large-scale Distributed Systems	E. RIVIERE		2ph+2ph		2ph+2ph	écrit	**5**	
Advanced Software Engineering (University of Fribourg)	J. Vogel	2ph+1ph		2ph+1ph		oral	**5**	
Advanced Database Systems (University of Fribourg)	P. Cudré-Mauroux		2ph+1ph		2ph+1ph	écrit	**5**	
Web Engineering	O. Abou Khaled P. FELBER E. Mugellini	2ph+1ph		2ph+1ph		oral	**5**	
Scientific Reading in Computer Networks	T. Braun	1pg		1pg		controle continu	**5**	
Scientific Writing in Computer Networks	T. Braun	1pg		1pg		controle continu	**5**	
Seminar Communication and Distributed Systems	T. Braun	2ph		2ph		controle continu	**5**	
Scientific Reading in Computer Networks	T. Braun		1pg		1pg	controle continu	**5**	
Scientific Writing in Computer Networks	T. Braun		1pg		1pg	controle continu	**5**	
Seminar Communication and Distributed Systems	T. Braun		2ph		2ph	controle continu	**5**	
Seminar Network Management	A. Malatras	2ph		2ph		controle continu	**5**	
Seminar Pervasive Artificial Intelligence	M. Courant B. Hirsbrunner	1pg		1pg		controle continu	**5**	
Seminar Pervasive Artificial Intelligence	M. Courant B. Hirsbrunner A. Malatras		1pg		1pg	controle continu	**5**	
Advanced Software Engineering								**TOTAL**
Compiler Construction	M. Lungu O. Nierstrasz		2ph+1ph		2ph+1ph	écrit	**5**	
Concurrent Programming	M. Lungu O. Nierstrasz	2ph+1ph		2ph+1ph		écrit	**5**	
Agile Methodologies and integrated Software Development (University of Fribourg)	J. Hennebert		2ph+1ph		2ph+1ph	oral	**5**	
Seminar Software Composition	O. Nierstrasz	2ph		2ph		controle continu	**5**	
Seminar Software Composition	O. Nierstrasz		2ph		2ph	controle continu	**5**	
Seminar Efficient IT or IT for Efficiency	O. Abou Khaled J. Hennebert E. Mugellini	1pg		1pg		controle continu	**5**	
Advanced Information Processing								**TOTAL**
Computational Photography (University of Bern)	M. Zwicker	2ph+1ph		2ph+1ph		écrit	**5**	
Rendering Algorithms (University of Bern)	M. Zwicker		2ph+1ph		2ph+1ph	écrit	**5**	
Computer Vision	P. Favaro	2ph+1ph		2ph+1ph		écrit	**5**	
Convex Optimization	P. Favaro		2ph+1ph		2ph+1ph	écrit	**5**	
Natural language processing	J. SAVOY		2ph+2ph		2ph+2ph	écrit	**5**	
Information retrieval and internet	J. SAVOY		2ph+2ph		2ph+2ph	écrit	**5**	
Machine learning and data mining	J. SAVOY	2 +2		2 +2		écrit	**5**	
Design and Graphics Programming for Game Development (University of Fribourg)	M. Rigamonti	2ph+1ph		2ph+1ph		oral	**5**	
Applied Signal Processing	J. Bloechle A. Humm R. Ingold F. Ringeval		2ph+1ph		2ph+1ph	oral	**5**	
Applications of Artificial Intelligence	M. Eichenberger-Liwicki		2ph+1ph		2ph+1ph	oral	**5**	
Seminar Computer Graphics	M. Zwicker	2ph		2ph		controle continu	**5**	
Seminar Social Signal Processing	D. Lalanne	1pg		1pg		controle continu	**5**	
Seminar Natural Language Processing	J. SAVOY	2ph		2ph		controle continu	**5**	
Seminar Pattern Recognition and Machine Learning for Human Activity	O. Abou Khaled J. Hennebert E. Mugellini	1pg		1pg		controle continu	**5**	
Seminar Information Representation	D. Lalanne		1pg		1pg	controle continu	**5**	

Course	Teacher					Exam	ECTS
Seminar Computer Graphics	M. Zwicker		2ph		2ph	controle continu	5
Seminar Computer Vision	P. Favaro	2ph		2ph		controle continu	5
Seminar Computer Vision	P. Favaro		2ph		2ph	controle continu	5
Logic							**TOTAL**
Proof Theory	G. Jäger	2ph+1ph		2ph+1ph		oral	5
Complexity Theory	T. Strahm		2ph+1ph		2ph+1ph	oral	5
From Gödel's Incompleteness Theorems to Gentzen's Proof Theory	G. Jäger		2ph+1ph		2ph+1ph	oral	5
Justification Logic	T. Studer	2ph+1ph		2ph+1ph		écrit	5
Model Theory	G. Metcalfe	2ph+1ph		2ph+1ph		écrit	5
Probabilistic Algorithms (6 ECTS)	K. STOFFEL	4ph		4ph		Note d'enseignement	5
Automata on Infinite Structures	U. Ultes-Nitsche		2ph+1ph		2ph+1ph	oral	5
Graduate Seminar Logic and Information	G. Jäger G. Metcalfe K. STOFFEL U. Ultes-Nitsche	1pg		1pg		controle continu	5
Seminar Logic and Algebra	G. Jäger G. Metcalfe	2ph		2ph		controle continu	5
Seminar Logic and Computer Science	G. Jäger	2ph		2ph		controle continu	5
Graduate Seminar Logic and Information	G. Jäger G. Metcalfe K. STOFFEL U. Ultes-Nitsche		1pg		1pg	controle continu	5
Seminar Logic and Algebra	G. Jäger G. Metcalfe		2ph		2ph	controle continu	5
Seminar Logic and Computer Science	G. Jäger		2ph		2ph	controle continu	5
Information Systems and Decision Support							**TOTAL**
E-governement frameworks	A. SANDOZ		2ph+2ph		2ph+2ph	oral	5
Combinatorial Optimization	H. Gröflin	2ph+1ph		2ph+1ph		oral	5
Mathematical Modelling	T. Hürlimann	2ph+1ph		2ph+1ph		écrit	5
Electronic Business (University of Fribourg)	A. Meier		2ph+1ph		2ph+1ph	oral	5
Quantitative Models in Revenue Management (University of Fribourg)	H. Gröflin T. Hürlimann		2ph+1ph		2ph+1ph	oral	5
Simulation et métaheuristiques	M. Widmer		2ph+1ph		2ph+1ph	oral	5
Scheduling: Models and Methods	H. Gröflin		2ph+1ph		2ph+1ph		5
Transportation Logistics: Quantitative Models and Methods	I. Blöchliger T. Hürlimann		2ph+1ph		2ph+1ph	oral	5
Seminar Data Management Infrastructures	P. Cudré-Mauroux	1pg		1pg		controle continu	5
Seminar Electronic Government	A. Meier	2ph		2ph		controle continu	5
Seminar Marketing Analytics and Data Mining with Inductive Fuzzy Classification	A. Meier	1pg		1pg		controle continu	5
Rattrapage							**TOTAL 30**
Intelligence artificielle	J. SAVOY	2ph+2ph				écrit	6
Operating Systems	E. RIVIERE		2ph+2ph			controle continu	6
Structure de données et algorithmique	A. SANDOZ	2ph+2ph				controle continu	6
Systèmes répartis	P. KROPF	2ph+2ph				écrit	6
Mathématiques discrètes et applications	H. MERCIER	2ph+2ph				écrit	6
Algèbre linéaire	B. COLBOIS	4ph+3ph+1j				controle continu	9
Téléinformatique-VITELS	P. KROPF	1pg	1pg			controle continu	6