FS - Master en informatique 2022-2023

Cours	Enseignant-e-s	Automne	Printemps	Examen	Crédits	
Master of Science in Computer Science						TOTAL 90
Teaching Units						TOTAL 60
General						TOTAL
User Centered Design (University of Fribourg)	D. Lalanne	2ph+1ph		écrit	**5**	
Multimodal User Interfaces	D. Lalanne		2ph+1ph	écrit	**5**	
Fabrication and Prototyping in the LearningLab	J. Nembrini	2ph+1ph		oral	**5**	
Seminar Law and Computer Science	C. Cachin		1pg	controle continu	**5**	
R&D Workshop	P. FELBER J. SAVOY		4ph	controle continu	**10**	
Distributed Systems						TOTAL
Internet of Things	T. Braun		2ph+1ph	écrit	**5**	
Advanced Networking and Future Internet	T. Braun	2ph+1ph		écrit	**5**	
Cryptography	C. Cachin	2ph+1ph		oral	**5**	
Cryptographic Protocols	C. Cachin		2ph+1ph	oral	**5**	
Security	H. SANGLARD	2ph+2ph		oral	**5**	
Cloud Computing	L. Leonini	2ph+2ph		écrit	**5**	
Advanced Software Engineering (University of Fribourg)	J. Pasquier	2ph+1ph		écrit	**5**	
Verification of Cyber-physical Systems	U. Ultes-Nitsche		2ph+1ph	oral	**5**	
Scientific Reading in Computer Networks	T. Braun	1pg		controle continu	**5**	
Scientific Writing in Computer Networks	T. Braun	1pg		controle continu	**5**	
Seminar Communication and Distributed Systems	T. Braun	2ph		controle continu	**5**	
Seminar Cryptography and Data Security	C. Cachin	2ph		controle continu	**5**	
Scientific Reading in Computer Networks	T. Braun		1pg	controle continu	**5**	
Scientific Writing in Computer Networks	T. Braun		1pg	controle continu	**5**	
Seminar Communication and Distributed Systems	T. Braun		2ph	controle continu	**5**	
Seminar Cryptography and Data Security	C. Cachin		2ph	controle continu	**5**	
Seminar Quantum Mobile Networks	A. Di Maio		2ph	controle continu	**5**	
Seminar Hot Topics in Operating Systems	P. FELBER B. LEPERS	1pg		controle continu	**5**	
Seminar Foundations of Dependable Systems I	U. Ultes-Nitsche	1pg		controle continu	**5**	
Seminar Foundations of Dependable Systems II	U. Ultes-Nitsche		1pg	controle continu	**5**	
Advanced Software Engineering						TOTAL
Software Product Lines	T. Kehrer	2ph+1ph		oral	**5**	
Compiler Construction	T. Kehrer		2ph+1ph	oral	**5**	
Concurrency: Multi-core Programming and Data Processing	P. FELBER		2ph+2ph	écrit	**5**	
Seminar Software Engineering	T. Kehrer	2ph		controle continu	**5**	
Seminar Software Engineering	T. Kehrer		2ph	controle continu	**5**	
Advanced Information Processing						TOTAL
Computer Vision	P. Favaro	2ph+1ph		écrit	**5**	
Deep Learning	P. Favaro		2ph+1ph	écrit	**5**	
3D Geometry Processing	D. Bommes		2ph+1ph	écrit	**5**	
Applied Optimization	D. Bommes	2ph+1ph		écrit	**5**	
Graph Based Pattern Recognition	K. Riesen		2ph+1ph	écrit	**5**	
Machine learning and data mining	J. SAVOY	2ph+2ph		écrit	**5**	
Statistical Learning Methods with R	J. SAVOY		2ph+2ph	écrit	**5**	
Digital Humanities	J. SAVOY	2ph+2ph		écrit	**5**	
Design and Graphics Programming for Game Development (University of Fribourg)	M. Rigamonti		2ph+1ph	écrit	**5**	
Pattern Recognition	A. Fischer		2ph+1ph	écrit	**5**	
Document Image Analysis	R. Ingold		2ph+1ph	oral	**5**	
Image Processing	R. Ingold	2ph+1ph		écrit	**5**	
Seminar Computer Graphics and Geometry Processing	D. Bommes	2ph		controle continu	**5**	
Seminar Machine Learning and Artificial Intelligence	P. Favaro	2ph		controle continu	**5**	
Seminar Applied Optimization	D. Bommes		2ph	controle continu	**5**	
Seminar Machine Learning and Artificial Intelligence	P. Favaro		2ph	controle continu	**5**	
Seminar Pattern Recognition	K. Riesen	2ph		controle continu	**5**	
Seminar Affective Computing for Empathic Behaviour Change	O. Abou Khaled D. Lalanne E. Mugellini	1pg		controle continu	**5**	
Seminar Chatbots and Conversational Agents	O. Abou Khaled P. Cudré-Mauroux E. Mugellini	1pg		controle continu	**5**	
Seminar Human-Computer Interaction I	D. Lalanne J. Nembrini	1pg		controle continu	**5**	
Seminar Explainable AI - Human-Computer Interaction meets Artificial Intelligence	O. Abou Khaled R. Ingold E. Mugellini		1pg	controle continu	**5**	
Seminar Human-Computer Interaction II	D. Lalanne J. Nembrini		1pg	controle continu	**5**	
Seminar Pattern Recognition	K. Riesen		1pg	controle continu	**5**	
Logic						TOTAL
Justification Logic	T. Studer	2ph+1ph		écrit	**5**	
Automata on Infinite Structures	U. Ultes-Nitsche	2ph+1ph		oral	**5**	
Foundations and Tools for Processing Semi-structured Data	C. Vanoirbeek		2ph+1ph	écrit	**5**	
Seminar Logic and Theoretical Computer Science	T. Studer	2ph		controle continu	**5**	
Seminar Logic and Theoretical Computer Science	T. Studer		2ph	controle continu	**5**	
Information Systems and Decision Support						TOTAL
Design of Governance in Socio-technical Information Systems	A. SANDOZ		2ph+2ph	oral	**5**	
Advanced Mathematical Modeling and Optimization	M. Pacheco	2ph+1ph		écrit	**5**	

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Course	Professor			Type	Credits
Introduction to Recommender Systems	L. Terán		2ph+1ph	écrit	5
Graph Theory and Applications	D. Schindl	2ph+1ph		écrit	5
Fuzzy Sets and Systems II	E. Portmann		2ph+1ph	écrit	5
Fuzzy Sets and Systems I	E. Portmann	2ph+1ph		écrit	5
Seminar Life Engineering	E. Portmann	1pg		controle continu	5
Seminar Hands-On Recommender Systems	L. Terán	1pg		controle continu	5
Seminar Human Smart Cities	E. Portmann	1pg		controle continu	5
Seminar Social Computing	E. Portmann		1pg	controle continu	5
Seminar Life Engineering	E. Portmann		1pg	controle continu	5
Data Science					**TOTAL**
Reinforcement Learning and Decision Making Under Uncertainty	C. DIMITRAKAKIS		2ph+2ph	écrit	5
Fairness and Privacy in Machine Learning	C. DIMITRAKAKIS	2ph+2ph		écrit	5
Big Data Infrastructures	P. Cudré-Mauroux A. Lerner	2ph+1ph		écrit	5
Social Media Analytics	P. Cudré-Mauroux M. Khayati		2ph+1ph	écrit	5
Data Management Data Structures	A. Lerner		2ph+1ph	écrit	5
Seminar Advanced Topics in Reinforcement Learning and Decision Making	C. DIMITRAKAKIS		2ph	controle continu	5
Seminar Advanced Topics in Learning, Privacy and Fairness	C. DIMITRAKAKIS	2ph		controle continu	5
Seminar Data Science	M. Khayati A. Lerner	1pg		controle continu	5
Rattrapage					**TOTAL** 30
Structure de données et algorithmique	A. SANDOZ	2ph+2ph		controle continu	6
Algèbre linéaire	M. BENAIM	4ph+3ph		écrit	9
Mathématiques discrètes et applications	B. LEPERS	2ph+2ph		écrit	6
Informatique générale : programmation I	P. FELBER	2ph+2ph		controle continu	6
Informatique générale : programmation II	P. FELBER		2ph+2ph	controle continu	6
Intelligence artificielle	J. SAVOY		2ph+2ph	écrit	6
Operating Systems	V. Schiavoni		2ph+2ph	écrit	6
Langages et compilation	P. FELBER		2ph+2ph	oral	6
Software Skills Lab	V. Schiavoni	4dj		controle continu	5