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anced cryptog	raphy (E-Secure)			
3IMR3	Advanced cryptography (E-Secu	re)	Computer Science	S9
Cours : 20 h	TD : 0 h	TP : 0 h	Projet : 0 h	Total : 20 h
	Responsat	ole : Regis Cloua	ard	
	P	ré-requis		
Mathematics for compu Cryptography	ter science			
	Objectifs of	de l'enseigneme	nt	
The aim is to give adva	nced knowledge in cryptography with no	n-trivial notions o	f the domain.	
	Progra	amme détaillé		
(symmetric and asymm protocols, the key distri electronic voting or e-ca	notions of security models, generic consi etric MAC, signature, proof of identificatio bution, secret sharing, distributed compu ash protocols based on "special" signatur d to resist the advent of quantum comput	on and security), iting course. This res. This course v ters), as well as p	interactive and non-interactiv course will also address mor will also address the so-called airing based cryptography de	e zero-knowledge e complex systems like d "post-quantum"
		tions (TD ou TP)		
e-voting, e-cash, privac	y, e-payment,			
	Compét	ences acquises		
Advanced knowledge ir	n cryptography and sécurity			
	Bit	oliographie		

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