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# Master of Sciences - Network, Computer and System Security

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This program develops a comprehensive understanding of the underlying technologies of computer and network security mechanisms and a critical awareness of the overhead, impact and relative value of the protection offered. It provides an advanced understanding of the nature of secure e-commerce within an organisation and the technical, legal and business issues involved; and a critical awareness of the inherent risks and related privacy issues of its use in business. An understanding and mastery of the nature of security protocols within a network and the Internet will lead to a solid grasp of the performance and quality issues involved.

The course will prepare you to make critical high-level in network, computer and system security. You will also develop your ability to analyse problems logically and apply appropriate decision-making skills and knowledge to reach feasible, realistic conclusions

The programme looks at the development, management and use of information technology within and between organisations. We provide our students with a conceptual and practical knowledge of the management of IT and IT-induced change.

As a student on this programme you will:

- develop an in-depth understanding of the organisational and management processes that underlie IT-induced organisational change
- develop conceptual and practical knowledge in the following areas: managing change, knowledge management, systems analysis and design, IT strategy, problem-solving methodologies, project management, and e-business

The course is structured around four themes:

- Formal theme, comprising advanced software development, formal methods, concurrent and distributed systems.
- Design theme, comprising information engineering, human/computer interaction (design and development)
- Application theme, comprising AI, computer systems performance modelling, real-time systems.
- Project theme, comprising software project management, project, dissertation.

## **Organisation**

**Duration : 2 years - ECTS : 120 credits**

### Bilingual Program: French and English

<i>1<sup>st</sup> Semestre</i>	Ects	<i>2<sup>nd</sup> Semestre</i>	Ects
NCSS 311 - Computer Architecture and Operating Systems	4	NCSS321 - Communications in Business	4
NCSS 312 - Networks and Protocols	4	NCSS 322 - Computer Crime Investigation	4
NCSS 313 - Group Development Workshop	4	NCSS 323 - Incidence Response and Novel Approaches to Security	4
NCSS 314 - Security, Privacy and Data Protection	4	NCSS 324 - Dissertation Methods	4
NCSS 315 - Principles of Management	4	Choose 1 major course	9
NCSS 316 - Software Project Management	4		
NCSS 317 - Project Management	4		
LAN 318 - Language	2	Internsip of 3 Months	5
60 ECTS			
<i>3<sup>rd</sup> Semestre</i>	Ects	<i>4<sup>th</sup> Semestre</i>	Ects
NCSS 411 - Internet Security and Protocols	4	Internsip of 6 Months	30
NCSS 412 - Strategy and Information Technology Management	4		
NCSS 413 - Social Aspects of the Digital Age	4		
NCSS 414 - Introduction to Cryptography	4		
NCSS 415 - Computer Animation & Special Effects	4		
NCSS 416 - Case Studies	4		
NCSS 417 - Software Development	4		
LAN 414 - Language	2		
60 ECTS			

Choose 1 major course from the following topics: Advanced Simulation Modelling, Artificial Intelligence with Applications , Design for Mobile Content, Advanced Character Animation , Advanced Database Techniques, Computer Graphics and Systems, Internet Security and Protocols, Human Computer Interaction

Conditions to get the degree

- Student must to follow regularly all the coures - He/She had to attend their class work, project; exams required in each course - He/She must to get at least 12/20
- Attend and realize Internships in company - Memory
- Student must get the TOEIC with 750 points or an equivalent in french

***Tuition fee***

***8700 euros per year***



**SUSTAINABLE DEVELOPMENT  
MANAGEMENT INSTITUTE**