



Master in Information and Communication Science and technology

This formation is organized in flexible hours.
The 2024-2025 programme is subject to change. It is provided for information purposes only.

Programme mnemonic

MA-STIC

> Focus *Professional* : M-STICS

Studies level

Master 120 credits

Learning language

french

Schedule

flexible hours

Studies category / subcategory

Human and social sciences / Information and communication

Campus

Solbosch

knowledge needed for the operational implementation of information systems.

With its strict interdisciplinary approach, this conceptual and technological Master fits in well with students' existing academic curricula. By complementing their primary discipline with actual applications, it will improve their skills in information management and communication.

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Programme's added value

This multidisciplinary programme combines humanities and sciences, theory and practice. Moreover, the practical work that it includes involves projects that bring together several disciplines and that reflect the logical sequence of steps to be taken when designing and implementing information and communications systems.

The opportunity to do part of the programme in a foreign university (as part of a European or international exchange programme) gives this Master an international dimension.

The courses offered also tie in with current issues in scientific research. The academic staff is involved in various research projects related to information and communication technologies and their application in the information society, and students will therefore be in contact with these not only at certain stages of their practical work, but also—and especially—when writing their dissertation.

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Programme objectives

Our societies are centred on information and knowledge, with an impressive amount of information made available through a range of information systems and communications technologies (internet, intranet, and databases). In this context, information specialists fulfil an increasingly important role both in the public and private sector.

This university-level multidisciplinary programme trains specialists who can meet the strategic challenges involved in the management of information and communication.

Back in 1977, ULB—through what was then the Infodoc department—pioneered an academic degree in information management. Thirty years later, this Master programme continues to build on the experience gained. Its goal is twofold: first, it teaches about information structuring in the broadest sense, which requires high-level abstraction and conceptualisation skills. Second, it provides the technological



with these not only in certain stages of their practical work, but especially when writing their dissertation.

Succeed in your studies

Choose

The information and guidance counsellors at the InfOR-études [<https://www.ulb.be/en/studies-info-desk-1>] service will help you choose your studies throughout the year.

Succeed

Take part in preparatory courses [<https://www.ulb.be/en/studies-info-desk-1>] or get help to succeed [<https://www.ulb.be/en/studies-info-desk-1>], before or during your studies.

Get help

Apply for financial aid, look for accommodation or a student job, get support [<https://www.ulb.be/fr/aides-services-et-accompagnement/aid-services-and-support-1>] for your specific needs.

Job opportunities

ICST graduates are in high demand in all fields that involve setting up information and communication systems.

Working in various environments (companies, administrations, libraries, etc.), they might design and deploy information systems (archives, document management systems, databases, multimedia communication, corporate portal, etc.) or work with existing tools for organisational or strategic purposes (information quality assessment, auditing of information flows, knowledge management, economic intelligence, etc.).

Contacts

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Jury President

Alain DELATTRE

Jury Secretary

Françoise ROSSION



Master in Information and Communication Science and technology

Focus Professional

The programme includes theoretical and practical classes (60 credits) focused on structuring information and gaining technological knowledge on information systems; in addition, students have the opportunity to complete an internship during the second year of the programme, which will let them apply their skills on the ground in a variety of environments. Lastly, a dissertation (25 credits) lets students delve deeper into a topic of their choosing.

The Master is mainly focused on the creation—both conceptual and technical—of information systems. This goal involves, among other things, taking into account the system's organisational environment and the assessment and improvement of the quality of information used. This process may be used, for instance, for document and records management.

Bloc 1 | M-STICS | MA-STIC

Cours obligatoires

- MEMO-B470 **Travail d'initiation à la recherche** | Sébastien DE VALERIOLA (Coordinator)
⌚ 5 credits [personal assignments: 60h] 📅 academic year 🗨️ French
- STIC-B405 **Introduction aux bases de données** | Frédéric SERVAIS (Coordinator)
⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨️ French
- STIC-B410 **Documentologie** | Isabelle BOYDENS (Coordinator)
⌚ 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗨️ French
- STIC-B415 **Architecture des systèmes d'information** | Sébastien DE VALERIOLA (Coordinator)
⌚ 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗨️ French
- STIC-B420 **Gestion des bibliothèques** | Christian BROUWER (Coordinator)
⌚ 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗨️ French
- STIC-B425 **Ingénierie linguistique** | Max DE WILDE (Coordinator) and Pierrette BOUILLON
⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨️ French
- STIC-B440 **Processus d'entreprise et de modélisation** | Françoise ROSSION (Coordinator)
⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨️ French
- STIC-B450 **Algorithmes et programmation I** | Anthony LEROY (Coordinator)
⌚ 5 credits [lecture: 18h, tutorial classes: 18h] 📅 first term 🗨️ French
- STIC-B455 **Algorithmes et programmation II** | Joël GOOSSENS (Coordinator)
⌚ 5 credits [lecture: 18h, tutorial classes: 18h] 📅 second term 🗨️ French
- STIC-B540 **Visualisation des données et de l'information** | Sébastien DE VALERIOLA (Coordinator)
⌚ 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗨️ French

Two courses chosen from the following

- COMM-B415 (optional) **Communication marketing : conception et évaluation** | Louis WIART (Coordinator)
⌚ 5 credits [lecture: 24h] 📅 second term 🗨️ French
- COMM-B430 (optional) **Stratégies numériques en communication** | David GRUNEWALD (Coordinator)
⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨️ French
- ETHI-B411 (optional) **Information et société** | Thomas BERNS (Coordinator)
⌚ 5 credits [lecture: 24h] 📅 first term 🗨️ French
- PSYC-D405 (optional) **Psychologie ergonomique** | Cécile VAN DE LEEMPUT (Coordinator)
⌚ 5 credits [lecture: 24h] 📅 second term 🗨️ French

- STIC-B435
(optional) **Archivistique** | Aude ALEXANDRE (Coordinator)
🕒 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗨️ French
- STIC-B561
(optional) **Données et méthodes des humanités numériques I**
🕒 5 credits [lecture: 24h] 📅 first term 🗨️ French
Ce cours est donné en alternance (un an sur deux) avec le cours STIC-B562
- STIC-B562
(optional) **Données et méthodes des humanités numériques II**
🕒 5 credits [lecture: 24h] 📅 first term 🗨️ French
Ce cours est donné en alternance (un an sur deux) avec le cours STIC-B561
- TRAD-B4007
(optional) **Localisation de logiciels** | Nancy MATIS (Coordinator)
🕒 5 credits [lecture: 48h] 📅 second term 🗨️ French
- TRAD-B4400
(optional) **Traductologie de corpus** | Marc VAN CAMPENHOUDT (Coordinator)
🕒 5 credits [lecture: 24h, tutorial classes: 24h] 📅 first term 🗨️ French

Master in Information and Communication Science and technology

Focus Professional

Bloc 2 | M-STICS | MA-STIC

Cours obligatoires

- MEMO-B570 **Mémoire** | Sébastien DE VALERIOLA (Coordinator)
 ⌚ 25 credits [personal assignments: 30h] 📅 academic year 🗨️ French
- STIC-B500 **Projet : gestion et aspects méthodologiques** | Françoise ROSSION (Coordinator)
 ⌚ 5 credits [lecture: 12h, tutorial classes: 12h] 📅 first term 🗨️ French
- STIC-B505 **Conception et gestion de banques de données** | Frédéric SERVAIS (Coordinator)
 ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 first term 🗨️ French
- STIC-B510 **Qualité de l'information et des documents numériques** | Isabelle BOYDENS (Coordinator)
 ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨️ French
- STIC-B545 **Traitement automatique de corpus** | Max DE WILDE (Coordinator)
 ⌚ 5 credits [lecture: 24h] 📅 first term 🗨️ French

A total of 15 credits chosen from the following

- STIC-B501 (optional) **Projet : stage en entreprise** | Sébastien DE VALERIOLA (Coordinator)
 ⌚ 10 credits [work placement: 120h] 📅 first term 🗨️ French
- STIC-B515 (optional) **Innovation digitale et Conception** | Quentin LIMBOURG (Coordinator)
 ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨️ French
- STIC-B520 (optional) **Edition numérique** | Zeger KARSSSEN (Coordinator)
 ⌚ 5 credits [lecture: 24h] 📅 second term 🗨️ French
- STIC-B530 (optional) **Patrimoine culturel : questions de gestion, de conservation et de numérisation** | Frédéric LEMMERS (Coordinator)
 ⌚ 5 credits [lecture: 24h, field trips: 12h] 📅 second term 🗨️ French
- STIC-B535 (optional) **Introduction au Machine Learning**
 ⌚ 5 credits [lecture: 24h] 📅 first term 🗨️ French
- STIC-B561 (optional) **Données et méthodes des humanités numériques I**
 ⌚ 5 credits [lecture: 24h] 📅 first term 🗨️ French
 Ce cours est donné en alternance (un an sur deux) avec le cours STIC-B562
- STIC-B562 (optional) **Données et méthodes des humanités numériques II**
 ⌚ 5 credits [lecture: 24h] 📅 first term 🗨️ French
 Ce cours est donné en alternance (un an sur deux) avec le cours STIC-B561
- TRAD-B5015 (optional) **Localisation de sites web** | Paul MURAILLE (Coordinator) and Pascaline MERTEN
 ⌚ 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗨️ French