

MIKS

Management of Information and Knowledge Systems

MASTER



Apprenticeship



École de Management
de la Sorbonne
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MIKS MASTER

École de Management de la Sorbonne

The department of Management of the world renowned Sorbonne University is specialized on research and formation in management. It has expanded on its traditional French Master programme on Information and Knowledge Systems to build this training in English for international students.

Foreign students who have completed 240 credits in the European System (or equivalent) with a background in ICT and in Management are eligible to enter into the second year of this Master programme.

MIKS (*) is a Master Programme in ICT and Management. It offers the unique opportunity for European and International students to get a master degree from the prestigious Sorbonne University. The students involved in MIKS shall specialize in the Management of Information and Knowledge Systems (IKS) and the Governance of IKS projets.

Admission requirements

Age: Candidates must be under the age of 30 years at the time of admission to MIKS.

Qualifications: Candidates must have passed the first year of a Masters programme in Computer Science, Software Engineering, Information Science, Management Science or allied area. They must have completed 240 credits in the European System, with a background in ICT.

English Language Proficiency: Candidates should have passed TOEIC with a minimum score of 700 or should be able to demonstrate an equivalent proficiency in English.



Programme objectives

- To provide students knowledge and know how on Information and Knowledge Systems (IKS) and on engineering management (**) for IKS.
- To expose them to its immediate experience in French industry by performing tasks that are closely related to the academic instruction.
- To develop multidisciplinary skills to allow students to become adept at recognizing and orchestrating the interplay between IKS, organization strategy and business processes.

Programme Benefits

English Medium of instruction

All teaching, course material, course and practical/project work shall be in English.

The National French 'Apprenticeship' style of learning

Under MIKS, students spend alternate periods in the company and academia (cycle of 4 weeks in industry followed by 2 weeks in academia). They work under mentorship of two designated mentors, one each in industry and academics, respectively. Thus there is a continuous cross fertilization between course work and industrial practice.

Earn while you Learn

Each admitted student to MIKS is provided paid contractual employment worth between 1000 and 1500 Euros per month, for one year with a French company. The Centre de Formation par l'Apprentissage, CFA-AFIA, co-ordinates the relationship between the University, the companies and MIKS students. As part of this, it assists students in finding employment and paying for their tuition fees.

A multi-cultural environment for learning together

75% of the students have a curriculum from the University. 25% of them received an engineer degree before acceding to MIKS. 40% are not french (10 different nationalities in a class). 40% had a previous experience in the industry as apprenticeship before joining us.

An international seminar

In 2011 and 2012, students visited the Universidad Politecnica de Valencia (Spain). The seminar included a 4-day academic programme and a day for industrail and cultural discovery. In 2013, students participated to the IEEE International RCIS (Research Challenges in Information Science) Conference at Sorbonne. 2015 batch students participated to the same conference in Athens at the Harokopio University. 2017 batch students participated to the International Conference on Advanced Information Systems (CAISE) in Essen, Germany. In 2018, students participated to the International Conference on Advanced Information Systems (CAISE) in Tallinn, Estonia. The same conference will receive 2019 MIKS class, in Rome, Italy.

(*) IKSEM (IKS Engineering and Management) master has been created in 2009 as a dual degree in Management of IKS and in Computer Science. From 2016, the dual degree is replaced by two distinct master degrees, the one presented in this leaflet, MIKS, is in Management Science, more specifically in Management of Information Systems.

(**) Engineering Management is a specialised form of management that is concerned with the application of engineering principles to business practice.

When I arrived in France, people almost convinced me that it could be impossible to integrate the society and find a job. However, some talked me about the IKSEM master. I decided to subscribe and restart my studies because it was the master that responded to all my expectations. English lessons, targeted to the most important skills that someone needs in today's business world and the opportunity to work for a French company. Furthermore, my favorite part, a master thesis, which gave me knowledge and inspiration for a lifetime. The value of all these things that I have learned is priceless. The job offers received at the end of the master were remarkable and the knowledge gained was useful from the first day at my actual job. Both the ability to integrate multicultural environments and speak French came also from my IKSEM experience.

There is no point in saying that something is impossible for something that has clearly happened. Be motivated, trust the experience of other people and go on !

Tania Lazarou,

Student 2015-2016
Information Systems Consultant, Primexis, Paris



The IKSEM has been one of the most important choices for my career and personality enhancement. Combining a cursus on Information Knowledge System Engineering and Management with a related internship in an English environment, it creates a unique combination of competences for the graduates. This link of the business and the research world is also found to the master's course curriculum. The professors are people with significant experience in the business as well as in the academia. The courses and the projects proposed are synchronized with the actual needs and problematics of the business world. Indeed, it has been a great preparation for the future career.

The international context proposed, provides a great opportunity to share experiences from all over the world in both business and interpersonal level. The class is composed from several backgrounds and nationalities and the professors are invited from different universities around the world, guaranteeing a rich international experience academically as well as personally. Moreover, the campus and the location of the master in Paris, drive the student experience beyond the expected level.

To conclude, IKSEM is one of the master degrees that create a real added value for the graduates and the business, fact that is correlated with the high demand rate of business for IKSEM graduates.

Stela Kalouptsoglou

Student 2014-2015
Business Intelligence Consultant, Eulidia, Paris



Being part of the 1st promotion of the IKSEM Master was a great mind opening experience. Not only was it an opportunity to follow a quality education on Information Knowledge engineering and management, but also to dive into a full English environment. The courses organized around teaching and group work sessions are a great opportunity to share experiences from different business and cultural backgrounds between students and professors. The articulation of this Master degree around an apprenticeship in a company is a tremendous advantage. Indeed, you are going to be able to apply the concepts seen in class in a real business environment, and therefore aggregate business experiences around these concepts and methods to give you a precise understanding of IT and especially of its influence on organizations. The Master thesis is another opportunity to go deeper in a specific subject. Not only does it give you a specific knowledge on a subject of your choice, but also an advantage on the job market by being able to value this research project for your future career. The IKSEM Master has been an excellent way to conclude my student journey, showing me how to gain a precious thing, time, and putting me on the right track to pursue an international trajectory in the IT consulting area.

Raphaël Alazard,

• Student 2009/2010,
Junior IT Consultant Axa (apprenticeship employment)
• Associate IRD & Fixed Income Front Office Developer
Société Générale CIB Tokyo, Japan



Student Employment Profile

Since the first batch, the employment record of the graduates was excellent : 90% at the end of the programme and 100% less than 3 months later. The average salary of the 2017 batch was 40 000 € per year. Graduates are employed as IKS experts as support of business teams: IKS Consultants (25%), IKS projects directors (33%), Business Analysts (17%), IKS developers (8%), Forecast analysts (17%).

An innovative pedagogy

Each class is composed in equal shares of students having a background in ICT and of students having a background in management. These apprentices work and learn together during a year in realistic situations of IKS projects bringing together the IT specialists and all stakeholders of IKS and of IKS projects.

The pedagogy which is adopted allows these apprentices to get ready for their future professions in which they cannot excel without a successful alliance between business teams and IT teams. This is henceforth an inescapable condition so that the organizations succeed in their business/IT alignment and IT governance (and corporate governance) in the service of a responsible and sustainable competitiveness.

The MIKS Master allows to acquire the necessary skills to successfully build this alliance.

Courses

- Harmonisation of prerequisites - IS and conceptual modeling
- Organisation strategy and change management
- Enterprise Knowledge Management
- Business Process Modeling and Management
- Requirements Engineering
- System Dynamics
- Inter-organisational Workflow, Extended Enterprise & Cloud
- Enterprise Architecture and IS Urbanisation
- ERP Systems and Projects
- IKS Projects Portfolio Management and Project Management
- IKS Quality Assurance
- Innovation, Agility and Responsibility in IKS projects governance
- Capability Maturity Management
- Decisional Systems
- Big Data and Data Mining
- Team Building & Intercultural communication
- Research seminars and coaching

In parallel with courses, students have to develop a Master thesis about an emerging professional problem of MIKS. The thesis must combine the use of knowledge acquired in academic courses with experience gained in industry. It shall be jointly supervised by the main supervisor from university and the co-supervisor from industry.

Application Timeline

Application deadline : April, 29th to May, 19th 2019
Interview : June, 12, 13, 14th 2019
Acceptance notification : June, 28th 2019
Programme start : October, 2019

Course Curriculum

The curriculum is 13 months long. It begins early October and ends in mid-october the next year. It comprises 8 sessions of 2 weeks each at the University and 9 sessions of 4 weeks each in industry, and a one week international seminar.

Programme Director



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Selmin Nurcan is Associate Professor at the Paris 1 Panthéon-Sorbonne University in the Management Faculty and Researcher at the CRI Research Centre. She got her Engineer and PhD Degrees in Computer Sciences at INSA-Lyon. She is associated with industrial collaborations and has been involved in a number of European Research Projects. She has published more than 100 reviewed papers in Journals, Conferences and Workshops. She is co-chair of BPMDS series in conjunction with CAISE International Conferences, co-founder and co-chair of BPMS2 series (Business Process Management and Social Software) in conjunction with BPM International Conferences, co-founder and co-chair of SoEA4EE series (Service-oriented Enterprise Architecture for Enterprise Engineering) in conjunction with EDOC IEEE International Conferences.

Faculty Members

Stephane Copin, Credit Process Manager (Crédit Coopératif) • Arthur Drewitt, Project Leader • Christof Ebert, Professor (University of Stuttgart, Germany, & Vector Consulting Services GmbH) • Henri Haenni, Director (Abilene, Switzerland) • Wassim Hourani, Project Manager (Caisse des Dépôts) • Ian King, International and Intercultural Coach • Myriam Lewkowicz, Professor (UTT Troyes) • Miguel Liottier, Lecturer/Researcher (ISC de Paris) • Pascal Negros, Consultant (Arch4IE) • Selmin Nurcan, Associate Professor (Paris 1 Panthéon-Sorbonne University) • Jeff Primus, Director (Actagis, Switzerland) • Rainer Schmidt, Professor (Munich University of Applied Sciences, Germany) • Samira Si-Said Cherfi, Professor (CNAM) • Vincent Vettier, Finance expert for projects in renewable energies (Crédit Coopératif) • Roel Wieringa, Professor (University of Twente, The Netherlands)

Each year, international invited speakers join the faculty team.



For further information

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