

ESIGELEC  Rouen

**Graduate School of Engineering
Grande École d'Ingénieurs**

FRANCE



MSc. in Management of Electronic & Embedded Systems

accredited by

«CONFÉRENCE DES GRANDES ÉCOLES» (CGE)

The Conference of Top Engineering & Management Schools in France

taught in English

Program in 3 semesters starting in February

About 700 hours of Engineering & Management courses

Introduction & Initiation to French language

A 4 to 9 months paid internship in a Company

The main objectives of the program are to :

Train professional people who will use and associate their Technological and Management skills in order to improve the quality and the efficiency of their job within the companies and who will adapt to the evolution of the different strategies of development of the companies in the world.

Produce engineers who will become experts in the domain of Embedded & Electronic Systems

and who will feel comfortable with new technologies to develop complex and technical projects in relation with control system approach, component programming, electronic, electro-magnetic and thermal stress.

Produce managers who will be able to lead a team, to work as part of a team and to organize the development of technical projects

International Teaching Staff

The teaching staff comes from France but also from different countries in which we have famous partner institutions. The students study in an international environment and get the benefit of having interactions with different ways of teaching brought by teachers coming from different countries. The professors who are selected to teach in the program are experts in their domain of activity.

Adapted Teaching Method

The average duration of each module is about 1 to 2 weeks, or more when it is required. The teaching method includes teaching lessons, practical work in labs, directed work at school, projects, and an internship in a company.

The student work is evaluated through written exams, oral presentations, project reports.

The program represents 90 ECTS credits for 3 semesters in total.

Main Courses of the Program

Technological courses

- ♦ Microprocessors
- ♦ Embedded Java
- ♦ Logic Synthesis & V.H.D.L.
- ♦ C Cross Compilation for Microprocessors
- ♦ Virtual Instrumentation
- ♦ Specific Instrumentation
- ♦ Communicant Embedded Systems
- ♦ Communication Busses
- ♦ System on Chip
- ♦ EMC and Embedded Systems
- ♦ Embedded Linux
- ♦ Embedded Visual Basic
- ♦ DSP Processors
- ♦ Digital Signal Treatment
- ♦ Industrial Project

Management courses

- ♦ Project Management
- ♦ Methodology
- ♦ Cross Cultural Awareness
- ♦ Leadership
- ♦ Oral Communication

French lessons

Paid Internship, Practical Work, Projects, Forum with companies

During the two first semesters at school :

- ♦ work on projects
- ♦ practical work in labs. Students get a practical experience.

During the third semester :

- ♦ a paid internship of 4 to 9 months, students work on a professional thesis and do an oral presentation at the end of their internship.

A one-day meeting between students and a large number of companies is organized once a year.

Students are helped to elaborate their CV and letter of motivation and to find an internship

Job Opportunities after MSc. Program

- ♦ Project management
- ♦ Engineering
- ♦ System development
- ♦ Consultancy

Admission Requirements

- ♦ Bachelor degree in Engineering or Technological domains
- ♦ English level equivalent to IELTS 6.0

Tuition Fees : € 11,000 - **Application Fees** : € 75

Admission Procedure

- ♦ **Step 1** : Application form with required documents submitted to ESIGELEC before December 10th.
- ♦ **Step 2** : Individual interview in English with a representative of ESIGELEC by phone or face to face.
- ♦ **Step 3** : Answer of ESIGELEC some days after we receive the application form and after the interview is done

Living in Rouen

Foreign students are accompanied before and after their arrival in Rouen :

- ♦ Reservation of accommodation just near the school or closed to the city center
- ♦ Free airport pick-up
- ♦ Administrative help (bank account, resident permit, social security...)



France, a powerful country of high technology

France is the 5th powerful country in the world and the 2nd country in the world for agriculture industry, just after USA. Its industry is very diversified and is really strong in the following sectors : TELECOMMUNICATION, ELECTRONIC, AUTOMOBILE, AEROSPACE, and MILITARY EQUIPMENTS. The sector of services is really developed and represents more than 75 % of the country's wealth. France is the first destination in the world for tourism.

As to export, France is among the 10 most active countries in the world.

France is a land of welcome, a peaceful country in which many different cultures and nationalities live together.

Normandy, an excellent place to live and to work

Located in the West of France and Europe, Normandy is a beautiful region near the sea, with a nice climate and leading economic sectors such as automobile, aeronautics, telecommunications, information and communication technologies. 8 of the most important French companies are located in Normandy. It is a region with a long history and close to many European countries. Normandy is known to have the youngest population in France and to be an excellent place for living conditions and job opportunities.

Rouen, the historical capital of Normandy

ESIGELEC is located near the city of ROUEN, at about one hour from Paris, by rail or highway. Capital of Upper-Normandy Region and fifth largest port in France, Rouen is a real hub of commerce. It is a city of half a million people. Located at 60 kilometers from the English Channel, Rouen is a town full of historical monuments, churches and museums. The historical city center with all its pedestrian streets is a well-known place to visit.



The Madrillet Technological Park

ESIGELEC moved in 2004 onto a Technological and Science Park, called « Technopôle du Madrillet », which already hosts several other higher education institutions, companies and many research centers. The ESIGELEC site has a surface of 12,000 square meters for teaching and research activities and includes auditoriums, classrooms, research facilities, laboratories, equipments, a lab for languages, student clubs, an incubator, a cafeteria, and a permanent WI-FI access to internet network.



ESIGELEC, a Top French Graduate School of Engineering

ESIGELEC was founded in 1901 and is now a human group of 1,800 people, including more than 1,400 students and among them 34 % of foreign students.

The school has over 309 teachers in total : permanent faculty members, teachers from abroad and from industry.

ESIGELEC proposes 3 different programs :

- ♦ The French engineering program (Master's Degree) which is the main one, offering 12 majors in the following fields : telecommunications, electronics, information technologies, computer networks, software engineering, embedded systems, automatic and industrial robotics, electrical engineering and transportation, mechatronics, business engineering, finance engineering, energy & sustainable development, and biomedical systems.
- ♦ The MSc. programs taught in English language
- ♦ The Doctoral program, open to French and non French speaking students

ESIGELEC has 80 agreements with Universities or Engineering Schools in 36 countries in Europe, Africa and the Middle East, North and South America, Asia.

ESIGELEC industrial network represents 3,000 companies including 650 companies which are located outside France.

The average annual starting salary is about € 36,400. Nearly 56 % of graduates found a job before leaving ESIGELEC and 97 % found employment within 4 months after graduating.

ESIGELEC has a very dynamic student and club life in a friendly environment. Furthermore, great emphasis is placed on the human dimension in the students' education.

IRSEEM, the Institute of Research and Development in Electronic Embedded Systems

IRSEEM was created to meet the research requirements of the automotive, aeronautics, electronics and telecommunications industries.

Its areas of activity are Research and Transfer in the following domains :

- ♦ Electronics & Systems (electromagnetism, EMC, microwave frequencies)
- ♦ Automation & Systems (diagnosis and engine control, monitoring complex systems)
- ♦ Instrumentation, Computer Systems (Navigation, Intelligent Transportation)
- ♦ Energy and Systems (starting early 2010)

IRSEEM has a staff of 125 people and is also highly involved in competitive clusters : MOV'EO, Nov@log and Aerospace Valley.

In addition, IRSEEM is part of the CARNOT ESP - Energy and Propulsion Systems Institute. and is a local part of the Regional Incubator for entrepreneurship in Upper Normandy.

ACCREDITATION & AUTHORIZATION

ESIGELEC is authorized by the French Committee of Engineering Degrees (« CTI ») to deliver the Engineering Degree under the name of the French Government.

ESIGELEC is also accredited by the French Conference of Top Engineering and Management Schools (« CGE ») to deliver the MSc. Diplomas.

My reasons for choosing MSc. In Management of Electronic & Embedded Systems

« I am Sowjanya from Hyderabad, INDIA. I have done my Master in Electronic Embedded Systems in ESIGELEC, Rouen. I did my Engineering from Jawaharlal Nehru Technological University in INDIA in Electronics and communications Engineering. The reason why I choose France and particularly this college is because of its long engineering history since 100 years and specialised engineering courses. We have good professors who are highly qualified with Industry experience from different parts of the world, which give us a quality education. It's a great experience to be here in France experiencing its diverse culture. The main advantage of this course is that we have an opportunity of doing Internships in famous companies like RENAULT, THALES, AREVA, and VALEO, etc. The management of ESIGELEC is always very supportive to help its students in all the aspects. The courses at ESIGELEC help the students in shaping a good career. »

Sowjanya Vuppu, Former Student in the MSc. Management of Electronic & Embedded Systems in ESIGELEC



Graduate School of Engineering fully recognised by the French State
Supported by the Chamber of Commerce and Industry of Rouen (CCIR)
Run as a non-profit association in cooperation with :

- ♦ the Alumni Association (SIGELEC), and since 2008
- ♦ major companies :



- ♦ local public authorities
- ♦ professional bodies (Confederation of Metallurgy Industry and Business)
- ♦ higher education institutions (University of Rouen).

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