APPLICATION FORM
Year 2017/2018

For Exchange Students only

Send this form to: Marisol VERSTRAETE – marisol.verstraete@centralesupelec.fr

Semester 8: January 22 to June 8, 2018

Family Name _____

Given Name _____

Home Institution _____

Country _____

Normal course load at CentraleSupelec (Centrale Paris Engineering Program) is 30 ECTS per semester. Depending on the requirements of your home institution, you may either take the full 30 ECTS load, or choose A minimum of 24 ECTS.

To complete the normal S8 course load, select courses for elective series (8-13). You can take at most one course in each elective series because all courses within a given series are taught simultaneously. In order to help you sign up for the most appropriate courses for your requirements, you are asked to choose two elective courses by block, a choice A and a choice B.
We will inform you if any of the courses you select are not available.

Language of Instruction

The courses at CentraleSupélec are taught in one of four language options, specified as below:

- **English (E), course entirely taught in English**
- **English or French (EF), there are two classes in parallel, one taught in French, one in English**
- **English on demand (E*), the course is taught entirely in English, unless all students registered for the course have a sufficient command of French, in which case, the professor may choose to teach in French.**
- French (F), course entirely taught in French

All courses available in English (E, EF or E*) are highlighted in green in the rest of this form.

Course code and title	Hours	ECTS
☞**Humanities and Social Sciences.**	32 hrs	2.0

Choose one module among the following series

O **SH3200**   **Seminar Series: individuals, labor, organizations (EF)**
O **SH3400**   **Seminar Series: International and Intercultural (EF)**
O SH3300   Science, Technology, Society
O SH3500   Seminar series: Perspective on Key Social Issues
O SH3600   Innovation, Arts and Creativity
O I do not wish to take an HSS module

	Hours	ECTS
☞**Project:**	150 hrs	9.0

     O WP 5200 Innovation Project
     O I do not wish to do a project

Choose at least one foreign language:

	Hours	ECTS
☞ **Language course 1**	24 hrs	2.0

     O LC 1000 English as a Foreign Language
     O I do not wish to take English as a Foreign Language course 1

	Hours	ECTS
☞**Language course 2**	24 hrs	2.0

     O LC 2000 French as a Foreign Language
     O I do not wish to take French as a Foreign Language course 2

If you are fluent in both English and French, you may choose one of the following languages.

This option is available to you only if you have already had at least two semesters of study of the chosen language shortly prior to your arrival at CentraleSupélec.

Upon your arrival, you will have to take the French and English tests, and your level in the chosen language will be evaluated by the Language Department. If your results are satisfactory, your choices will be taken in account.

O LC 3000 German
O LC 4000 Spanish
O LC 5000 Italian
O LC 6000 Portuguese
O LC 7000 Chinese
O LC 8000 Japanese
O LC 9000 Russian
O I do not wish to take Foreign Language course 3

SEMESTER 8 (Spring 2017-2018)

Please choose one course (choice A and B) per elective series. All courses within a given series are taught simultaneously.

☞ **Elective course 8 (Choose A + B)**   36 hrs   3.0
  - O O EN1201   Fluid Mechanics (E)
  - O O IS1220   Software engineering (E)
  - O O SE2500   Modeling and analysis of Supply Chains (E)
  - O O PH2813   Advanced Materials and Novel Devices for Information Technologies (E*)
  - O O PR1100   Introduction aux Matériaux
  - O O MA2822   Advanced Statistics
  - O O MG1200   Civil Engineering
  - O O IS1310   Problem solving by graphs: from theory to implementation
  - O O PR3100   Chemical Engineering & Sustainable Development
  - O O SE2750   Stochastic Modeling and Theory of Queues and their Applications
  - O O WP2100   Sustainable Development and Technologies
  - O O I do not wish to take a course in this elective series

☞ **Elective course 9 (Choose A + B) or Lab courses (Choose A + B)**   36 hrs   3.0
  - O O EN1500   Nuclear Engineering (E*)
  - O O IS1240   High Performance Computing for Engineering and Finance (E*)
  - O O SE3301   Introduction to Company Creation (E)
  - O O MG1500   Bio Mécanique
  - O O SE2700   Modeling for Decision Making
  - O O IS1330   Informatique théorique:calculabilité et langages formels
  - O O MA2824   Differential Geometry
  - O O MG2814   Economy and Design of Dams
  - O O I do not wish to take a course in this elective series

OR Lab. Courses which are normally offered in S6, but also open to S8 students

  - O O PH1910   Physics Lab (EF)   30hrs   2.0.
  - O O PR2940   Chemical & Environmental Engineering Lab. (EF)
  - O O EN1920   Aerodynamics & Energy Science Lab. (EF)
  - O O SE1950   Reverse Engineering & Rapid Prototyping Lab. (EF)
  - O O IS2950   Electronics Lab. (EF)
  - O O MG1960   Civil Engineering Lab.
  - O O MG1970   Design of Mechanical Structures Lab
  - O O PR1930   Materials & Corrosion Lab
  - O O I do not wish to take a course in this elective series

☞ **Elective course 10 (Choose A + B)**   36 hrs   3.0
  - O O PH2812   Introduction to Atomic and Molecular Physics (E)
  - O O MA2814   Introduction to Random Modeling (E)
  - O O PR4300   Cogeneration and Energy Production (E*)
  - O O SE2550   Introduction to Purchasing (E*)
  - O O MA2620   Ordinary Differential Equations and Dynamic Systems
  - O O MG2816   Micro-Electro-Mechanical Systems (MEMS)
  - O O SE3200   Law 2
  - O O I do not wish to take a course in this elective series

☞ **Elective course 11 (Choose A + B)**   36 hrs   3.0

O O EN1800   Numerical Methods in Engineering applications (E*)
O O PH2500   A Crash Course in Modern Mathematical Physics (E)
O O SE2650   Risk Assessment and Management (E)
O O IS1250   Programing for mobile devices (E)
O O MA2827   Foundations of discrete optimization (E)
O O EN1600   Renewable Energy
O O MG2812   Introduction to Acoustics: Industrial and Musical Acoustics
O O I do not wish to take a course in this elective series

OR Lab. Courses which are normally offered in S6, but also open to S8 students

O O PH1910   Physics Lab (EF)   30hrs   2.0.
O O PR2940   Chemical & Environmental Engineering Lab. (EF)
O O EN1920   Aerodynamics & Energy Science Lab. (EF)
O O IS 2950   Electronics Lab. (EF)
O O MG1960   Civil Engineering Lab.
O O MG1970   Design of Mechanical Structures Lab
O O PR1930   Materials & Corrosion Lab
O O I do not wish to take a course in this elective series

☞ **Elective course 12 (Choose A + B)**   36 hrs   3.0

O O EN1120   Heat Transfer (E)
O O MG2817   Applications of the Finite Element Method (E)
O O PH2821   Applications of statistical physics to socio-economical complex systems (E)
O O SE2800   Production Planning and Scheduling (E*)
O O MA2500   Signal Processing and Sparse Coding (E)
O O IS2210   Opto-électronique
O O MA2825   Algebra and cryptology
O O IS1350   Mathematical Logic for computer sciences
O O PR2100   Traitement de l'eau
O O I do not wish to take a course in this elective series

☞ **Elective course 13 (Choose A + B)**   36 hrs   3.0

O O EN2910   Aircraft Design (E)
O O MG2818   Introduction to Petroleum Exploration and Production (E)
O O IS2960   Electronics Laboratory (EF)
O O WL2100   Leadership in Project (E)
O O PH2814   Science-Fiction and Physics (**E***)
O O EN2930   Powertrain Design (E)
O O WL2200   Ethics and Responsibility in Engineering
O O MG2920   Sustainable Buildings & Architecture Laboratory
O O MG2819   Siège Automobile du Future
O O PH2930   Nuclear Physics Laboratory (French Passport required)
O O MA2828   Conception d'un mur antibruit
O O I do not wish to take a course in this elective series

Total number of ECTS you intend to take in Semester 8:_____

Exchange students will be informed on the availability of their chosen course program once they are admitted. Send this form before November 15 to: marisol.verstraete@centralesupelec.fr

Important dates: Arrival on Campus: January 22, 2018
Compulsory Orientation Days: January 22 to 26, 2018
First day of Academic semester: January 29, 2018