

# International track in electrical engineering



## Présentation

[Consulter la page du Master 1 sur le site de l'Université Paris-Saclay](#)

## Programme

### Semestre 1

#### Bloc S1 30 ECTS

- Choix 1

1 option(s) au choix parmi 9

- Signal processing 5 ECTS
- Programming 5 ECTS
- Automatic control 5 ECTS
- Power and machine electronics 5 ECTS
- Computer networking 5 ECTS
- Digital communication 5 ECTS
- Electronics for transmission systems 5 ECTS
- Embedded systems 5 ECTS
- Computational methods 5 ECTS
- Choix 2

1 option(s) au choix parmi 9

- Signal processing 5 ECTS
- Programming 5 ECTS
- Automatic control 5 ECTS
- Power and machine electronics 5 ECTS
- Computer networking 5 ECTS
- Digital communication 5 ECTS
- Electronics for transmission systems 5 ECTS
- Embedded systems 5 ECTS
- Computational methods 5 ECTS
- Choix 3

1 option(s) au choix parmi 9

- Signal processing 5 ECTS
- Programming 5 ECTS
- Automatic control 5 ECTS
- Power and machine electronics 5 ECTS
- Computer networking 5 ECTS
- Digital communication 5 ECTS
- Electronics for transmission systems 5 ECTS
- Embedded systems 5 ECTS
- Computational methods 5 ECTS
- Choix 5

1 option(s) au choix parmi 9

- Signal processing 5 ECTS
- Programming 5 ECTS
- Automatic control 5 ECTS
- Power and machine electronics 5 ECTS

- Computer networking 5 ECTS
- Digital communication 5 ECTS
- Electronics for transmission systems 5 ECTS
- Embedded systems 5 ECTS
- Computational methods 5 ECTS
- Choix 4

1 option(s) au choix parmi 9

- Signal processing 5 ECTS
- Programming 5 ECTS
- Automatic control 5 ECTS
- Power and machine electronics 5 ECTS
- Computer networking 5 ECTS
- Digital communication 5 ECTS
- Electronics for transmission systems 5 ECTS
- Embedded systems 5 ECTS
- Computational methods 5 ECTS
- French for foreigners / soft skills 5 ECTS

### Semestre 2

#### Bloc S2 30 ECTS

- Choix 4

1 option(s) au choix parmi 15

- Communication systems 5 ECTS
- Microwaves and antennas 5 ECTS
- Machine vision 5 ECTS
- French for foreigners / soft skills 5 ECTS
- Advanced automatic control 5 ECTS
- Image and signal processing 5 ECTS
- Information theory and source coding 5 ECTS
- Design of integrated circuits 5 ECTS
- Nanotechnology 5 ECTS
- Modeling of poly-articulated systems 5 ECTS
- Static machine learning 5 ECTS
- Computer graphics 5 ECTS
- Advanced power and machine electronics 5 ECTS
- Materials and devices for electronics and optoelectronics 5 ECTS
- Mechatronic design 5 ECTS
- Choix 5

1 option(s) au choix parmi 15

- Communication systems 5 ECTS
- Microwaves and antennas 5 ECTS
- Machine vision 5 ECTS
- French for foreigners / soft skills 5 ECTS
- Advanced automatic control 5 ECTS
- Image and signal processing 5 ECTS
- Information theory and source coding 5 ECTS
- Design of integrated circuits 5 ECTS
- Nanotechnology 5 ECTS
- Modeling of poly-articulated systems 5 ECTS
- Static machine learning 5 ECTS
- Computer graphics 5 ECTS

- Advanced power and machine electronics	5 ECTS
- Materials and devices for electronics and optoelectronics	5 ECTS
- Mechatronic design	5 ECTS
- Project	5 ECTS
- Choix 1	
1 option(s) au choix parmi 15	
- Communication systems	5 ECTS
- Microwaves and antennas	5 ECTS
- Machine vision	5 ECTS
- French for foreigners / soft skills	5 ECTS
- Advanced automatic control	5 ECTS
- Image and signal processing	5 ECTS
- Information theory and source coding	5 ECTS
- Design of integrated circuits	5 ECTS
- Nanotechnology	5 ECTS
- Modeling of poly-articulated systems	5 ECTS
- Stochastic machine learning	5 ECTS
- Computer graphics	5 ECTS
- Advanced power and machine electronics	5 ECTS
- Materials and devices for electronics and optoelectronics	5 ECTS
- Mechatronic design	5 ECTS
- Choix 2	
1 option(s) au choix parmi 15	
- Communication systems	5 ECTS
- Microwaves and antennas	5 ECTS
- Machine vision	5 ECTS
- French for foreigners / soft skills	5 ECTS
- Advanced automatic control	5 ECTS
- Image and signal processing	5 ECTS
- Information theory and source coding	5 ECTS
- Design of integrated circuits	5 ECTS
- Nanotechnology	5 ECTS
- Modeling of poly-articulated systems	5 ECTS
- Stochastic machine learning	5 ECTS
- Computer graphics	5 ECTS
- Advanced power and machine electronics	5 ECTS
- Materials and devices for electronics and optoelectronics	5 ECTS
- Mechatronic design	5 ECTS
- Choix 3	
1 option(s) au choix parmi 15	
- Communication systems	5 ECTS
- Microwaves and antennas	5 ECTS
- Machine vision	5 ECTS
- French for foreigners / soft skills	5 ECTS
- Advanced automatic control	5 ECTS
- Image and signal processing	5 ECTS
- Information theory and source coding	5 ECTS
- Design of integrated circuits	5 ECTS
- Nanotechnology	5 ECTS
- Modeling of poly-articulated systems	5 ECTS
- Stochastic machine learning	5 ECTS
- Computer graphics	5 ECTS
- Advanced power and machine electronics	5 ECTS
- Materials and devices for electronics and optoelectronics	5 ECTS
- Mechatronic design	5 ECTS