

# M1 - International track in electrical engineering

- formation initiale
- formation continue

Durée : 1 an



## Présentation

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

## Programme

### Semestre 1

|                                        |         |
|----------------------------------------|---------|
| <b>Bloc S1</b>                         | 30 ECTS |
| - 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

|                |         |
|----------------|---------|
| <b>Bloc S2</b> | 30 ECTS |
| - Choix 4      |         |

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|-------------------------------------------------------------|--------|
| 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 |
| - Statical machine learning                                 | 5 ECTS |
| - Computer graphics                                         | 5 ECTS |
| - Advanced power and machine electronics                    | 5 ECTS |
| - Materials and devices for electronics and optoelectronics | 5 ECTS |
| - Mecatronic design                                         | 5 ECTS |
| - Choix 5                                                   |        |

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|---------------------------------------|--------|
| 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 |

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|-------------------------------------------------------------|--------|
| - 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 |
| - Statical machine learning                                 | 5 ECTS |
| - Computer graphics                                         | 5 ECTS |
| - Advanced power and machine electronics                    | 5 ECTS |
| - Materials and devices for electronics and optoelectronics | 5 ECTS |
| - Mecatronic design                                         | 5 ECTS |
| - Project                                                   | 5 ECTS |
| - Choix 1                                                   |        |

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|-------------------------------------------------------------|--------|
| 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 |
| - Statical machine learning                                 | 5 ECTS |
| - Computer graphics                                         | 5 ECTS |
| - Advanced power and machine electronics                    | 5 ECTS |
| - Materials and devices for electronics and optoelectronics | 5 ECTS |
| - Mecatronic design                                         | 5 ECTS |
| - Choix 2                                                   |        |

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|-------------------------------------------------------------|--------|
| 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 |
| - Statical machine learning                                 | 5 ECTS |
| - Computer graphics                                         | 5 ECTS |
| - Advanced power and machine electronics                    | 5 ECTS |
| - Materials and devices for electronics and optoelectronics | 5 ECTS |
| - Mecatronic design                                         | 5 ECTS |
| - Choix 3                                                   |        |

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|---------------------------------------|--------|
| 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 |

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|-------------------------------------------------------------|--------|
| - 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 |
| - Statical machine learning                                 | 5 ECTS |
| - Computer graphics                                         | 5 ECTS |
| - Advanced power and machine electronics                    | 5 ECTS |
| - Materials and devices for electronics and optoelectronics | 5 ECTS |
| - Mecatronic design                                         | 5 ECTS |