

## Semestre 9 - Artificial Intelligence and Information Processing (IATI)



ECTS  
30 credits



Component  
École Nationale  
Supérieure  
d'Électrotechnique  
d'Électronique  
d'Informatique  
d'Hydraulique  
et des  
Télécommunications

### In brief

- **Ametys Code:** M8FRC1JD
- **Open to exchange students:** Yes

## List of courses

|                                               | Nature  | CM | TD | TP | Crédits    |
|-----------------------------------------------|---------|----|----|----|------------|
| <b>SIGNAL AND APPLICATIONS</b>                | UE      |    |    |    | 5 credits  |
| Antenna processing                            | Matière |    |    |    |            |
| Automatic speech processing                   | Matière |    |    |    |            |
| Audio et musique                              | Matière |    |    |    |            |
| Satellite navigation                          | Matière |    |    |    |            |
| <b>AI AND HARDWARE</b>                        | UE      |    |    |    | 5 credits  |
| Edge computing                                | Matière |    |    |    |            |
| Design of NN dedicated to embedded systems    | Matière |    |    |    |            |
| <b>ELECTIVE TEACHING UNIT</b>                 | Bloc    |    |    |    | 15 credits |
| ELECTIVE TEACHING UNIT SIA                    | Choix   |    |    |    |            |
| IMAGE - APPLICATIONS                          | UE      |    |    |    | 5 credits  |
| Computational imaging                         | Matière |    |    |    |            |
| Computational medical imaging                 | Matière |    |    |    |            |
| Teledetection                                 | Matière |    |    |    |            |
| LEARNING AND DECISION                         | UE      |    |    |    | 5 credits  |
| Data analysis                                 | Matière |    |    |    |            |
| Unsupervised learning                         | Matière |    |    |    |            |
| Supervised learning                           | Matière |    |    |    |            |
| VISION, AUGMENTED REALITY AND APPLICATIONS    | UE      |    |    |    | 5 credits  |
| Computer vision and augmented reality         | Matière |    |    |    |            |
| Transversal project                           | Matière |    |    |    |            |
| ELECTIVE TEACHING UNIT TSE                    | Choix   |    |    |    |            |
| EMBEDDED SYSTEMS                              | UE      |    |    |    | 5 credits  |
| System on Chip                                | Matière |    |    |    |            |
| Architecture and hardware acceleration for DL | Matière |    |    |    |            |
| AI AND SENSORS                                | UE      |    |    |    | 5 credits  |
| Intelligent instrumentation chain technology  | Matière |    |    |    |            |
| Smart Sensor Project                          | Matière |    |    |    |            |
| IA AVANCEE                                    | UE      |    |    |    | 5 credits  |
| Loosely supervised learning, RNN              | Matière |    |    |    |            |
| Data analysis 2 and classification            | Matière |    |    |    |            |
| <b>SOFT AND HUMAN SKILLS 3EA S9</b>           | UE      |    |    |    | 5 credits  |
| Professional English-LV1-Semestre 9           | Bloc    |    |    |    |            |
| Anglais Scientifique                          | Matière |    |    |    |            |
| Choix 2 Anglais Professionnel - 3A            | Choix   |    |    |    |            |
| Anglais Clinique                              | Matière |    |    |    |            |
| Anglais de Cambridge ou Projet                | Matière |    |    |    |            |
| CV Entretiens(3EA)                            | Matière |    |    |    |            |
| Recherche doc.(3EA)                           | Matière |    |    |    |            |
| CHOIX Careers and Management 3EA S9           | Choix   |    |    |    |            |
| Entrepreneurship Project                      | Matière |    |    |    |            |
| Corporate Project and Social Responsibility   | Matière |    |    |    |            |

