

Course form to fill in (2021-2022)

Course title:

AI for Sustainable Development and responsible AI

Staff responsible for the course:

Julia Guillemot

Lecturers:

Julia Guillemot

1) **COURSE PRESENTATION**

Aims:

Draw up a list of competencies and/or skills that the student should have acquired or improved at the end of the course.

You must fill in the field under the format “the student should be able to...” using action verbs such as define, realise, control... *(This description should not take more than ten lines)*

At the end of the course, the student should be able to:

AI for Sustainable Development and AI Governance

- To understand and analyze the role of AI in achieving the Sustainable Development Goals;
- To be able to describe the impact of AI on economic, environmental and societal outcomes;
- To understand the main ethical topics underpinning the development of AI systems;
- To be familiar with the main global AI governance frameworks and current policy considerations;
- To be able to critically think about the ethics and governance of AI systems given specific cases.

Prerequisites:

You must not write courses' codes or names, but identify the preliminary skills as the knowledge or the know-how needed to efficiently follow this course.

Write it out in terms of knowledge and methodologies required to follow this course (this would help students from direct entry to position themselves). *(This description should not take more than five lines)*

No prerequisite is assumed apart from the Introduction to AI class

Course contents:

Here, an abstract of the course can be given or the different chapters of the course can be simply written down.

(The description should not take more than ten lines)

Environmental outcomes:

AI for the environment & the environmental cost of AI

Economic outcomes:

- AI and economic outcomes: digital inclusion, uneven distribution and economic opportunities

Developing responsible AI: AI Ethics & AI Governance

Becoming a leader for sustainable development:

- Education for Sustainable Development: Teaching the next generation
- Community mobilization and leadership for achieving the UN SDGs: Building a movement or career in sustainable development

2) **WORKING LOAD**

Here, you should allocate the effective working load of the course, including an estimation of the personal work required from the student.

TABLE 1

| Course's types | Number of hours | Notes |
|---|-----------------|----------------------------|
| <u>Effective presence</u> | | |
| - Magistral Course | 8 | |
| - Interactive Course | | + 2h of corporate sessions |
| - Tutorials | | |
| - Coaching | | |
| - PBL Course | | |
| <u>Training from a distance</u> | | |
| - Video-conferences | | |
| - Webinars | | |
| <u>Self-learning</u> | | |
| - Books 'readings | | |
| - E-learning | | |
| - Research | | |
| <u>Outdoors-training</u> | | |
| - In firms | | |
| - Internship | | |
| <u>Personal work</u> | | |
| - Group Projects | | |
| - Individual Projects | 3 | |
| - Personal work | 4 | |
| Total working time for the student | 17 | |

3) EDUCATIONAL METHODS

Tick here the different educational methods used:

- Coaching
- Case Study
- E-Learning and/or Self-learning
- Interactive courses
- Presentations
- Projects
- Research
- Seminars
- Tutorials
- Visits

4) ASSESSMENT

Sum up briefly the course assessment's mechanism (two or three lines) in order to introduce the assessment's table that you have to complete below (table n°2).

You must also define clearly how feedback will be given to students (in accordance with the feedback policy).

- Participation in class is worth 10%
- Students will be required to read 2 case-studies and/or readings and submit a short reflection, each worth 20% for a total of 40%
- Students will be given one short individual projects, worth 50%

*Individual feedback will be given to students after each assignment

List the assessment for each modality.

TABLE 2

| Modality | Type of control | Length (h) | Number | Weighting (%) |
|------------------------------|-----------------------|------------|--------|---------------|
| Continuous assessment | Continuous assessment | | | |
| | Mid-term exam | | | |
| | Participation | | | 10% |
| | Oral presentation | | | |
| | MCQ | | | |
| Final exam | Oral final exam | | | |
| | Written final exam | | | |
| Others | Case study | | | |
| | Group Project | | | |
| | Individual Project | 3 | 1 | 50% |
| | Written assignment | 1 | 2 | 40% |
| | Exercises | | | |
| Total | | | | 100% |

5) **RECOMMENDED READING**

Name of books (*indicate only three or four must-read references*) / Name of reviews:

Reference book (appellation reserved for books selected by the School and necessarily bought by all the students):

Class books :

Reviews :

Internet Resources:

Please indicate here if you use the school intranet site to put on-line documents and/or if you advise the visit of web sites to students.

| Name of the Website | URL |
|---------------------|-----|
| | |