

Call for applications

for the recruitment of a module coordinator

Social Sciences, languages and culture 1

Direction de l'enseignement

Department –

Bachelor in Infrastructure and Transitions

École nationale des ponts et chaussées is recruiting a lecturer to serve as coordinator for the module Social Sciences, languages and culture 1.

This course is part of the Bachelor in Infrastructure and Transitions. This call for applications is launched as part of the creation of a new teaching module.

This position is held as secondary employment and is remunerated on an hourly teaching basis.

Context

École nationale des ponts et chaussées is developing, jointly with Universidad Politécnica de Madrid (as degree-awarding party) and with İstanbul Teknik Üniversitesi (as mobility partner), the *Bachelor in Infrastructure and Transitions – Bachelor of Science and Engineering*. This three-year, 180-ECTS programme is taught in English and provides an international education in civil engineering and infrastructure, with a particular focus on ecological and digital transitions. The first two academic years, delivered at ENPC, establish the scientific, technical, digital and methodological foundations required for the subsequent study of civil engineering systems and sustainable infrastructure.

Social Sciences, languages and culture 1 is part of the social sciences, languages and culture component of the first semester of the programme. This module is part of the programme's progressive pathway in social and human sciences, languages and communication. This interdisciplinary module introduces students to the human, historical and communicative dimensions of engineering. It combines social sciences for engineers and a brief history of techniques and technology with an introduction to argumentation and foreign-language learning. Students examine how technologies shape and are shaped by society, explore questions of ethics, responsibility, design and sustainability, and develop their ability to understand and construct arguments for enquiry, persuasion and mediation. The language component strengthens linguistic and cultural competencies in the selected foreign language.

Module « Social Sciences, languages and culture 1 »

Public

The Bachelor welcomes a small international cohort of around 40–60 students from different educational and cultural backgrounds. The programme is taught entirely in English and is designed for students with a solid scientific background and a strong interest in engineering, infrastructure and sustainability.

Students are entering higher education directly after secondary school. They have a solid background in mathematics and physics, but may come from different educational systems and therefore have different prior learning experiences. This first semester focuses on establishing common scientific foundations, developing higher-education working methods and progressively building student autonomy.

Timetable

72 hours are reserved for this course in the students' timetable, in the first semester (September - January). These hours can be devoted to teaching (courses and tutorials) but also to other types of

educational activities (practical work, discussion and correction of work done at home, tutored or non-tutored group work, etc.); See the pedagogical information below. Exams and defenses must be organized in these slots.

The course is credited with 6 ECTS credits (European credit transfer system) which corresponds to a total volume of work per student (attendance in class and personal or group work outside sessions) of between 150 and 180 hours. The work to be done outside the timetable must therefore be calibrated for between 78 and 108 hours.

Objectives

Upon completion of this module, students should:

- Understand introductory concepts from sociology, economics and psychology relevant to engineering, the historical development and social construction of technologies, basic questions of ethics, responsibility and sustainability, and the main principles of argumentation in written and oral discourse.
- Use social-science frameworks to examine the ethical and societal implications of engineering and infrastructure; analyse links between technological and social change; understand, structure and assess arguments; and develop linguistic, cultural and communication competencies in the selected foreign language.

Course content

The main teaching content is outlined below:

1. Introduction to social sciences: sociology, economics, psychology, ethics, design, sustainability
2. History of techniques and technology: major historical phases, innovation dynamics, transformation of societies
3. Elements of argumentation: enquiry, convincing, persuasion, mediation, confidence building
4. Foreign language and culture: language practice, culture, communication, integration or mobility preparation

Where a module provides prerequisites for another module, close coordination between the relevant module coordinators is expected in order to ensure continuity of learning and maintain the overall coherence of the curriculum.

Specific pedagogical guidance for this module

The creation of this module is intended to ensure disciplinary rigour, progressive learning and coherence across the curriculum.

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Selection procedure

The application file shall include:

- a CV (in particular specifying teaching experience and including a list of any publications)
- a course proposal including in particular:
 - a restatement of the objectives
 - the content and syllabus
 - the bibliography (and webography)
 - the methods used to assess students' learning outcomes
 - the organisation (teaching methods, planned course materials, proposed teaching team, possible guest lecturers)
- the module description sheet (in French and English), which will appear in our course catalogue if your application is selected. You will find the Word template [HERE](#).

The application file should be sent via the link:

<https://forms.studizz.fr/forms/6aad319973efc4423f0440fc>

The deadline for receipt of applications is 15-nov-2026. Candidates whose applications have been shortlisted will be interviewed by a jury convened by the Bachelor in Infrastructure and Transitions. The jury may include members from outside the ENPC.

Additional information

Contacts

For any questions regarding the application or the module, candidates may contact:

European-bachelor@enpc.fr

Role of the module coordinator

The module coordinator is responsible for forming and leading their teaching team: occasional guest lecturers, teaching staff and tutorial instructors. External contributors may therefore be involved to deliver certain sessions, take responsibility for tutorial groups, or provide tutoring in person or remotely. The module coordinator must nevertheless be sufficiently available throughout the teaching period. They are responsible for the coherence of the course and for the quality of the course as a whole.

Responsibility for the module includes sending the École administration all the information required to determine and reserve the necessary logistical resources (rooms, software, visits, remuneration of contributors, etc.).

The module coordinator ensures that the online description of the module is accurate (see <https://educnet.enpc.fr>); they inform students and programme coordinators in writing of any significant change during the year, in particular any change to the methods used to assess learning outcomes.

They are committed to the continuous improvement of the course. At the end of each edition of the course, they take part in the evaluation committee, which brings together a student representative, the module coordinator (accompanied, if they wish, by members of their teaching team), the programme coordinator and a pedagogical adviser; they inform their team of the committee's conclusions.

As far as possible, they take part in meetings of teaching staff to which they are invited, in particular department councils and the teaching staff day, and take an interest in the different aspects of their students' education (the programme to which the course belongs, other courses in the programme, student projects, internships, etc.).

Every module coordinator may be asked to support students during an internship, final-year project or professional thesis, in their field of expertise, as an École tutor. This support is subject to specific remuneration.

Common pedagogical guidance at École des Ponts

Alignment of learning objectives and assessment of learning outcomes

The most important thing is not what has been taught, but what the student has learned. Learning objectives express what the student must have acquired by the end of the module, what they must know

and what they must be able to do. Learning objectives form the basis of the pedagogical contract linking the programme coordinator, the module coordinator and the student. This is why you are asked to reformulate these objectives in your proposal. Once validated, the objectives will serve as the basis for building your learning-outcomes assessment system (how will I make sure that students have, to a greater or lesser extent, acquired what they were expected to acquire?) and will serve as the basis for our evaluation of course quality (does this course achieve the objectives assigned to it for the great majority of students?).

Students often express a need to understand the purpose of the activities required of them as part of their education. This purpose lies in the proper alignment between learning activities (what students do in the module), learning objectives (what they must know and be able to do at the end of the module) and programme objectives (the professional competences to whose development this module contributes).

Student engagement and autonomy

The École pays particular attention to students' engagement in their learning and to the development of their autonomy. Teachers are therefore expected to encourage autonomous student work, whether individual or in groups. The work expected outside class sessions must be made explicit, supported where appropriate, and assessed. Teaching approaches are encouraged that:

- encourage students to start working very early and place them in the position of active participants in their own learning;
- provide students regularly with information on the quality of their work;
- are based on real situations and enable students to connect the knowledge or know-how acquired with their future professional practice;
- use digital tools to promote continuity between in-class and out-of-class work; at a minimum, course materials are expected to be made available in digital format on the educnet.enpc.fr platform.

Correction of student work

Every assignment must receive feedback or correction (whatever the form: written or oral, individual or collective) that enables students to know where they stand in their learning and to use this information to make progress. All the more so, graded work must receive feedback that enables students to understand their grade. If it is an intermediate assessment, the correction must be provided before the final examination. A resit arrangement must be provided for students who have not passed the module. Examination scripts are returned to the École after correction.

Teaching in English

The Bachelor is taught entirely in English, including in-person teaching, assignments, assessments and oral defences. All exercises and teaching materials must be prepared and provided in English. All communication with students in connection with teaching and learning activities must also be conducted in English.

Course materials

Teachers are encouraged to produce a structured and fully written course handout and to distinguish it from the visual materials used in their oral presentations (slides). Unlike slides, which are not normally intended to be printed, the course handout may be printed by the reprographics service. It may also be distributed, in one or more blocks, on the École des Ponts teaching platform, <https://educnet.enpc.fr>. It is strongly recommended that all course materials be made available to students in digital format on the educnet platform.

It is often useful to produce a syllabus that reproduces the standardised course description as it appears online in our course catalogue at <https://educnet.enpc.fr> and supplements it with more precise information on what is expected of students. For example: details of readings or work to be completed before each session, clarification of what forms the core of the learning and what is provided for information or cultural enrichment, details of assessment methods, submission dates, etc.

Other forms of materials may be created with support from the Teaching Engineering and Innovation Service (S2iP). For example: video capsules (lectures, exercise corrections, laboratory experiments), self-positioning or self-assessment quizzes, wikis and forums. The development of e-learning opens up new possibilities for enriching courses and for autonomous student work, which teachers are

encouraged to explore. If this seems relevant to you, teaching delivered partly or entirely at a distance may be considered.

It is also possible to use pre-existing materials: books and manuals, websites, etc. The documentation service is available to help you find these resources.

Support provided by the École

The teaching departments and programme coordinators are the primary contacts for teachers on matters relating to course content and to students enrolled in the course.

The Teaching Engineering and Innovation Service (S2iP) supports teachers on request. It can support pedagogical design (drafting the module description and syllabus, reflection on learning-outcomes assessment), facilitate the use of digital tools (educnet platform, electronic voting devices, digital boards) and co-produce learning resources intended for autonomous learning (videos, quizzes). Contact: contact-s2ip@enpc.fr.

A website dedicated to teaching, <https://pedagotheque.enpc.fr>, provides teachers with information on the tools available to them, highlights interesting teaching initiatives, and offers opportunities for teachers to meet (lunchtime teaching sessions, thematic workshops, training). A teacher's guide is available to you: [HERE](#).