



ATHENS – Final Report

Month/Year: November 2025

Code and name of the course: MP06, Nonlinear Computational Mechanics

Host University: MINES Paris – PSL

Course Language: English

Dates: 15.11.2025 – 22.11.2025

Student: Nikita Sibgatullin

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Transport:

Means of transport (+ price):

- To get from Prague to Paris – 152 euro
- To get from Paris to Prague – 2950 CZK (122 euro)

Local transport:

Metro, RER, bus – 60 euro

Accommodation: I have found by networking, 210 euro

Food: approximately 160 euro

Scholarship – the amount you have received: 8900 (368 euro)

Please state in percentage: The scholarship covered 52,27 % of my expenses.

Course schedule (how it was organised):

The course was structured as an intensive one-week programme combining lectures, tutorials, and project work. Each day was divided into four teaching blocks (9:00–10:30, 10:45–12:15, 13:30–15:00, 15:15–17:15), allowing students to progress from theoretical concepts to hands-on numerical implementation.

On Monday, the module started with two sessions on plasticity (J.-M. Scherer), followed by afternoon tutorials guided by M. Mazière, where students practised the numerical treatment of plastic behaviour in finite element codes.

Tuesday focused on the Finite Element Method, with lectures by P. Kerfriden in the morning and FEM tutorials in the afternoon.

Wednesday was dedicated to contact mechanics (V. Yastrebov), introducing theory and practical resolution algorithms, followed by the first project session.

On Thursday, students worked on meshing techniques (Y. Mesome), after which the project work continued.

Finally, Friday was reserved entirely for the two-day group project, culminating in an evaluation session in the afternoon.

Spare time:

During my spare time, I visited several cultural places in Paris. I went to the Louvre and the Musée d'Orsay, watched a movie in French at the cinema, and also visited the Panthéon.

During the first days, I also participated in several events organized by the university, such as the ATHENS welcome session, the group visit of Le Marais, and the Cruise on the Seine River.

Overall Evaluation: 7/10

Overall, I would say that the course was very interesting. Of course, it is quite difficult to fit everything into these five days in order to gain a deep understanding of the subject, but as an introduction it was fine. The teaching was very good, the staff were open to questions and were even willing to stay after class to talk with students in a formal setting. I think the downside was the organisational aspect, because the coordinators almost never replied and it was difficult to communicate with the university itself.