

# Computer Networking & Distributed Applications (with project)

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**Subject area:** Computer Science/ICT

**University:** L'X  
**Level:** BA all years, MA1, MA2  
**Teaching mode:** completely online, not time-specific  
**Instructor(s):** Thomas Heide Clausen

## Short description

Virtually every time we interact with a computer program — on our computer, on our tablet, on our smartphones...on our SmartTVs, or our refrigerators ... or, on our for some reason also connected toaster oven — we're in reality interacting with a distributed application.

## Full description

<https://synapses.polytechnique.fr/catalogue/2021-2022/ue/1419/INF472D-modal-d-informatique-distributed-applications?from=P1277>

## Learning outcomes

With this baggage, we will work through a set of tutorials, introducing the (language) primitives for distributed systems developments — including interactions with (for example) web-servers, and with Twitter, as well as development of your own server applications....in fact, we will in one of those tutorials develop a on-line, multi-player, game.

## General information

**Contact hours per week:** 6 hours  
**Total workload:** 16 hours (in student hours for the whole course)  
**ECTS credits:** 6  
**Language:** English

**Course start date:** 01 September 2022  
**Course end date:** 03 June 2023

**Add. info about start date:** Individualised, can be any date, between Sept. 1, 2022 and April 1, 2023. Please note that the intended start-date must be communicated to Ecole Polytechnique at the time of registration. The course end date should be exactly 10 weeks after the start-date.

**Weekly teaching day/time:** Available fully asynchronous

**Time zone:** CET (Denmark, Germany, France, Netherlands, Switzerland, Czech Republic)

**Further information:**

**Prerequisites:** Please check at: <https://synapses.polytechnique.fr/catalogue/2021-2022/ue/1419/INF472D-modal-d-informatique-distributed-applications?from=P1277>

**Activities and methods:** The course will be available asynchronously, fully on-line, or on-side, through learning flows with short videos, quizzes, homework, lab exercises / tutorials — as well as office-hours via Webex with professors and instructors. While being asynchronous, each student is expected to check in with an instructor over Webex, weekly, following the chosen start-date.

**Presence on campus:** no

## Final examination

**Form:** Individual project

**Date:**

**Location/format:** online

**Re-sit possibility:** no

**Transcript available:** end of the semester and generally 8 weeks after the exam.

**Add. info/requirements:**

## Registration

To register for this course, follow the registration requirements of your **home university** as specified here: [www.euroteq.eu/courses-registration](http://www.euroteq.eu/courses-registration).

## Administration

**Number of places:** 24 - 30

**Minimum participants:**

**Internal course code:** INF472D

**Contact:**

Interested EuroTeQ students are welcome to, at any time, to come discuss their course choices in chat, or in visio, with the instructors from Ecole Polytechnique who will be teaching the classes. To this end, a dedicated WebEx space is permanently available here: <https://eurl.io/#fCk0f6iWF>.

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*This course is part of the EuroTeQ Engineering University joint course catalogue 2022/2023. This is a collaborative activity of the partner universities DTU, L'X, TU/e, TalTech, CTU, TUM as well as Technion. Students from these universities can participate in the offered courses. It is the responsibility of the student to check if you fulfil the requirements to participate in a specific course. Students are also advised to check with their home institution how to get recognition of the ECTS credits gained in courses of the EuroTeQ course catalogue. For further information about EuroTeQ Engineering University, visit [www.euroteq.eu](http://www.euroteq.eu) or get in touch with the above-mentioned point of contact.*