Principles of Digital Communications

Time and location:
- Wednesdays, 15–18, https://epfl.zoom.us/j/82106208903
- Fridays, 10–13, https://epfl.zoom.us/j/82106208903

Instructor:
- Emre Telatar (INR 117, emre.telatar@epfl.ch)
- Office hours: by appointment.

Graduate teaching assistants:
- Pierre Quinton (INR 030/INR 015, pierre.quinton@epfl.ch)
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Administrative assistant:
- Muriel Bardet, (INR 137, muriel.bardet@epfl.ch)

Prerequisite:
- Signal processing for communications
- Stochastic processes for communications

Web page: https://moodle.epfl.ch/course/view.php?id=15897

Textbook:
  - Online version: nb.mit.edu.

Course mechanics:
- Two Graded Homeworks (10% each),
- Project (20%),
- Final exam during finals period (60%).

Approximate Outline:
- Hypothesis testing and discrete-time receiver design (3 weeks)
- Continuous-time receiver design (3 weeks)
- Signal constellation design (3 weeks)
- Waveform design, coded transmission (3–4 weeks)
- Additional topics (1–2 weeks)