Principles of Digital Communications

Time and location:
Wednesdays, 15–18, INM 202
Fridays, 10–13, INM 202

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

Web page: http://ipg.epfl.ch/

Textbook:
B. Rimoldi, Principles of digital communication: a top-down approach,
Online version: nb.mit.edu.

Course mechanics:
Weekly reading and problem assignments,
Two quizzes (10%, dates to be assigned during the semester),
Midterm exam (35%, date: Wednesday, April 12, 2017),
Project (15%, to be announced in April),
Final exam during finals period (40%).

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)