Virtual Exchange Program

COM-303: Signal processing for communications

Start date: 17/02/2020, End date: 29/05/2020
Platform: Coursera

Ecole Polytechnique Fédérale de Lausanne

COURSE SYNOPSIS

Domain: Physics

Title(s) of the course(s) as it appears on the platform: Digital Signal Processing

Language (ISO-639-1 code): en

Short description of the course: Students learn digital signal processing theory, including discrete time, Fourier analysis, filter design, adaptive filtering, sampling, interpolation and quantization; they are introduced to image processing and data communication system design.

Instructor(s): Paolo Prandoni

Level: MA1

ECTS: 6.0

Workload in student hours: 180

Semester: 1: jan-june


Prerequisites: Required courses calculus, linear algebra Recommended courses Circuits and systems, basic probability theory Important concepts to start the course: vectors and vector spaces, functions and sequences, infinite series

Link to course on platform: https://www.coursera.org/learn/dsp

Link to course in University studyplan: http://isa.epfl.ch/imoniteur_ISAP/GEDPUBLICREPORTS.pdf?ww_i_reportModel=1696552884&ww_i_reportModelXsl=1696552963&ww_i_itemplan=2372813318&ww_c_langue=fr

Course registration opening date: 01/02/2020

Course registration deadline: 17/02/2020

Course withdraw date: 04/05/2020

Midterm: No

Midterm details: -

Exam period start: 15/06/2020

Exam period end: 04/07/2019

Exam date: -

Exam timing: Synchronous (exam needs to take place at the same date and time everywhere)
Exam start time: -
Exam end time: -
Time zone (at the time of the exam, DST): UTC+2
Exam registration date: 04/05/2020
Exam resit available: No
Exam resit period start: -
Exam resit period end: -
Exam resit date: -
Exam resit time start: -
Exam resit time end: -
Time zone (at the time of the resit of the exam, DST): -

Final exam type: Written

Final exam details: Could be organised on Saturday. The date and place for the final exam will be announced towards the end of the semester. Online students, please find out with your local officials how the exam will be administered. The final grade for the class will be based entirely on your performance during the written final exam. There will be no midterm exam but I will hand out a "mock" midterm just before spring break that you can use as a checkpoint to see if you're up to speed with the class. The final exam is closed-book. However, you will be allowed to bring with you two A4 sheets of \textit{handwritten} notes, front and back: no photocopies please. Calculators and all other electronic devices are not allowed (yes, just like during takeoff and landing).

Exam requirements for home university (computer, VOIP, recording materials): proctored room, could be organised on Saturday

Cap (maximum number of exchange students): 10

Offered to which partners: -, All partners of the Alliance(s) selected above

Link to course image: https://drive.google.com/open?id=17KH328G9dm6LP4jd_syeMntPjnbsX