

Building an Online Signals and Systems Course - Part I

Course Title	Building an Online Signals and Systems Course – Workshop for TEQIP-III Institute Faculty – Part I
Course Category	Pedagogy
Relevant Discipline(s)	Electrical Engineering, Electronics Engineering, Electronics and Telecommunication, Computer Science and Engineering.
Duration of course in equivalent integer no. of days(min 3 days, 1 day = 6 hrs of lectures/hands on sessions)	3 days Starts on 27 Nov 2020 late afternoon/evening and gets done on 30 Nov 2020 afternoon.
Proposed dates	27-30 November 2020 We shall be interspersing contact hours and tutorial/ MOOC viewing hours.

Brief Course Description and Course Contents

Signals and Systems is a fundamental course in many disciplines of Engineering, particularly in the disciplines of Electrical, Electronics and Telecommunication Engineering, Computer Science and Engineering. The aim of this workshop is to work out a methodology to teach this course effectively at the undergraduate level. The instructor would base his workshop on the course already created under IITBombayX. There are two parts to this course: EE210X – Part I and EE210X-Part II. In Part I, we largely deal with: linear system theory in the natural domain and the Fourier transform domain. The aim of this workshop is to familiarize the participants with the perspective of the instructor, in teaching this course, and to actually have the participants discuss some of the topics in a manner, in which they would teach, when called upon. Part I will be dealt with, during 27-30 Nov 2020 and Part II during 4-6 Dec 2020. We recommend that participants attend both parts, although we shall certainly permit attending only one part. Each part is a 3-day offering as a workshop, with contact hours and tutorial/ MOOC viewing interspersed.

Instructor Details			
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