

Pedagogy Workshop for Programming Basics

Course Title	Pedagogy Workshop for Programming Basics
Course Category	Pedagogy
Relevant Discipline(s)	All Engineering disciplines
Duration of course in equivalent integer no. of days (min 3 days, 1 day = 6 hrs of lectures/hands on sessions)	5 Days
Proposed dates	Overall duration 16 to 30 December 2020 Live sessions 16, 19, 20, 26, 27 December 2020

Brief Course Description and Course Contents
<p>This is a pedagogy workshop on how to teach programming basics. Programming Basics is a fundamental course in all engineering disciplines.</p> <p>In this workshop, we deal with the pedagogy for effective teaching of programming basics. The syllabus comprises of following two distinct components:</p> <p>(i) Revision of the topics of procedural programming using C++. These topics are: Introduction; Sequential and Conditional Execution of Programs; Iterative solutions; Functions; Arrays and Matrices; Sorting and Searching; Strings; Pointers; Structures; Files. The course content of CS101.1x, which include the recorded video lectures, slides, and practice problems, will be made available to participants to carry out this revision online. The material can be later used by participants for their own teaching.</p> <p>(ii) Understanding the pedagogy of teaching this course in online/blended mode. Participants will attend live sessions explaining the suggested method of revision, for understanding teaching pedagogy for each of the few selected topics, and for conducting online assessment.</p> <p>Submissions made by every participant will also be released in Open Source under CC-BY-SA license.</p>

Instructor Details			
S. No.	Name of the Instructor	Department	Email
1	Supratik Chakraborty	Computer Science and Engineering	supratik@cse.iitb.ac.in
2	Deepak B Phatak, Professor Emeritus	Computer Science and Engineering	dbp@it.iitb.ac.in