CALCULUS FOR ECONOMICS, COMMERCE & MANAGEMENT

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IIT Bombay

TYPE OF COURSE: Rerun | Core | UG
COURSE DURATION: 8 weeks (23 Aug 2021 - 15 Oct 2021)
EXAM DATE: 23 Oct 2021

PRE-REQUISITES: Basic School Mathematics

INTENDED AUDIENCE: Students, PhD scholars, teachers, industry

COURSE OUTLINE:
This course is based on the course "mathematics for Economics, Commerce and Management," which was run at IITB for 8 years. Mathematical tools give a precise way of formulating and analyzing a problem and to make logical conclusions. Knowledge of mathematical concepts and tools have have become necessary for students aspiring for higher studies and career in any branch of Economics, Commerce and Management. Math for ECM aims to strengthen the mathematical foundations of students of Economics, Commerce, and Management. Professionals working in these field, wishing to upgrade their knowledge, will also benefit. The stress of the course will be on building the concepts and their applications. The main topic will be Calculus and its applications.

ABOUT INSTRUCTOR:

COURSE PLAN:
Week 1: Revision of basic concepts from Mathematical finance
Week 2: Basic set theory and concept of functions
Week 3: Limits and Continuity of a function of one variable and its applications
Week 4: Derivative and tools to compute
Week 5: Application of derivatives in increasing/decreasing
Week 6: Application of derivatives in optimization
Week 7: Functions of several variables
Week 8: Applications