INTRODUCTION TO MARKET STRUCTURES

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TYPE OF COURSE: New | Elective | UG/PG
COURSE DURATION: 12 Weeks (26-Jul' 21 - 15-Oct' 21)
EXAM DATE: 23 Oct 2021

PRE-REQUISITES: Calculus and little bit of familiarity with optimization
INTENDED AUDIENCE: PG and UG (Advanced), BTech

COURSE OUTLINE:
This course deals with the study of market structures in economics. The study of market structures helps us to understand the pricing of goods and services in the market. Based on toy models, we will study how the price of a good changes with the changes in the market structure.

ABOUT INSTRUCTOR:
Dr Amarjyoti Mahanta is Assistant Professor at the Department of Humanities & Social Sciences at IIT Guwahati. He earned his PhD degree from Jawaharlal Nehru University New Delhi. His research interests lie in the field of Industrial Organization, Auction Theory, and Applied Game Theory and Evolutionary game Theory.

COURSE PLAN:
Week-1: Introduction to Industrial Organization, Consumer behavior and Derivation of Demand curve
Week-2: Production and Cost curves
Week-3: Competitive Market
Week-4: Monopoly
Week-5: Game Theory: Static games of complete information (Nash equilibrium)
Week-6: Dynamic games of complete information (Subgame perfect Nash equilibrium)
Week-7: Cournot Competition
Week-8: Bertrand Competition
Week-9: Stackelberg Games
Week-10: Product Differentiation
Week-11: Entry Deterrence
Week-12: Bundling and Tying