Course Code	EC0312		
Course Name	Industrial Organization (IO)		
Credits	Industrial Organization (IO)		
Course Offered to	UG		
Course Offered to	This course will introduce basic models of IO. It utilizes applied microenomic theory and game theory to understand how firms take		
	decisions in various settings like optimal expenditure on innovation, research & development, adoption of optimal technology, mergers		
	and acquistions, etc. The models include profit maximization when there is market power, advertising, heterogeneity in quality, vertical control, models of entry, accomodation and exit, and many others. The course helps one understand how to set up an objective function		
	for a firm facing different challenges in a complex market structure. IO has grown into one of the fundamental fields within economics,		
	and is essential in order to gain a broader understanding of the subject. This course will provide student an insight into real world		
Course Description	production decisions.		
Pre-requisites			
Pre-requisite (Mandatory)	Pre-requisite (Desirable)	Pre-requisite(other)	
ECO 101 (Microeconomics) OR ECO 311			
(Game Theory)	None	None	
Post Conditions			
CO1	CO2	CO3	CO4
	Understand the modelling strategies for		Utilize the aforementioned concepts to
Understand concepts that entail optimal	decisions regarding advertising, quality,	Understand how decisions are made under	understand applied models like product
production decisions among multiple	collusion, mergers, etc., that influence firm's	various market structures like monopoly,	differentation, and firm entery and exit
producers, e.g., market power.	profits	duopolies, and vertical control.	problems.
Weekly Lecture Plan			
Week Number	Lecture Topic	COs Met	Assignment/Labs/Tutorial
1	Introduction to Industrial Organization.	CO1	
1 & 2	Non - Cooperative Game Theory	CO1	
3	The Theory of the Firm	CO1	
3 & 4	Monopoly and Oligopoly	CO2, CO3	
5 & 6	Product Selection, Quality, and Advertising	CO2	
7 & 8	Price Discrimination	CO1, CO4	
8 & 9	Vertical Control	CO3	
10 & 11	Short Run Price Competition	CO1, CO3	
Ι α ι ι	Product Differentiation: Price,Competition	001, 003	
11 & 12	and Non-Price Competition	CO4	
12 & 13	Entry, Accomodation, and Exit	CO4	
13	Empirical Models in IO	CO4	
	Assessr	nent Plan	
Type of Evaluation % Contribution in Grade			
Homework Assignments (4)	30		
Mid-sem exam	30		
Final exam	40		
Resource Material			
Type Title			
Textbook	Tirole, J., The Theory of lindustrial Organization, Eastern Economy Edition.		
Titole, J., The Theory of industrial Organization, Lastern Economy Edition.			