Semester	V			
Paper Number	HECDS5021T			
Paper Title	INPUT-OUTPUT ANALYSIS			
No. of Credits	6			
Theory/Composite	Theory			
No. of periods assigned	5 Theory + 1 Tutorial			
Course	The objective of this course is to familiarize students with the			
description/objective	concept of inter-industry analysis and the resulting insights that			
	are gained into various areas of economics, such as national			
	income accounts, price and quantity system equilibrium, impact			
	analysis and multipliers, duality theory, decomposition of			
	sources of various changes in the economy, policy analysis			
	using mixed models, and to introduce students to the			
	multifarious areas of extensions of input-Output Analysis such			
	as environment and ecology, regional science, productivity and			
	social accounting. It is expected that students with exposure to this course will be trained in the basic skills of bandling various			
	economy-wide issues			
Syllabus	Modulo 1 (30 morks)			
	wiouule 1 (50 marks)			
	1. Introduction and overview			
	Introduction to Input-Output Analysis. Basic framework of			
	Input-Output Analysis, Outline of various major areas of			
	application.			
	2. Fundamental concepts			
	Fundamental relationships with National Income accounts			
	and Production Functions, Leontief Inverse, Impact analysis,			
	Power series approximation of Leontief Inverse, Open and			
	Closed Models, Price Model.			
	Number of Closed nor			
	Number of Classes per week: 2			
	Module 2 (50 marks)			
	3. Multipliers			
	Output Multipliers, Income and Employment Multipliers,			
	4 Supply side Models and Linkages			
	4. Supply-side Model Reinterpretation of Ghosh model as			
	price model Linkage analysis Hypothetical Extraction			
	analysis			
	5. Structural Decomposition and Mixed Models			
	Demand-side decomposition, Sources of change, Mixed			
	Models, New-industry Impacts.			
	6. Applications			
	Basic idea of Energy Input-Output Analysis,			
	Environmental Input-Output Analysis, Regional Input-			
	Output Analysis, Social Accounting Matrices, Total Factor			
	Productivity Analysis.			

	Number of Classes per week: 3				
	Tutorial Classes per week: 1				
Reading	1. Ronald E. Miller and Peter D. Blair, Input-Output Analysis –				
_	Foundations and Extensions, Second Edition, Cambridge				
	University Press, 2009.2. Thijs ten Raa, <i>The Economics of Input-Output Analys</i>				
	Cambridge University Press, 2005.				
	3. "Economic Systems Research" – various issues.				
Evaluation	Continuous Internal Assessment: 20 marks End- Semester Theory Examination: 80 marks				
Paper Structure for End	Module	No. of	No. of	Marks	
Sem Theory		Questions to be	Alternatives		
		Answered			
	Module 1	2	3	$5 \ge 2 = 10$	
	infocute 1	2	5	5 X 2 - 10	
		2	3	$10 \ge 2 = 20$	
	Module 2	4	5	5 x 4 = 20	
		3	4	$10 \ge 3 = 30$	
	Total Marks			80	