Semester	VI			
Paper Code				
Paper Title	INPUT-OUTPUT ANALYSIS			
No. of Credits	4			
Theory/Practical/Composite	Theory			
No. of periods assigned	4			
Minimum No. of	4			
preparatory hours per week				
a student has to devote				
Learning	1. Familiarize students with the concept of inter-industry analysis,			
Outcomes/Course	2. Provide insights into national income accounts, price and quantity			
description/objective	system equilibrium,			
	3. Undertake impact and multipliers analysis,4. Introduce duality theory,			
	5. Decompose the sources of various changes in the economy,			
	6. Carry out policy analysis using mixed models,			
	7. Introduce students to applications of Input-Output Analysis on			
	environment and ecology,			
	8. Analyse sector-level productivity.			
	9. Students with exposure to this course will be trained in the basic skills			
C-11-1	of handling various economy-wide issues.			
Syllabus	Module 1 (35 marks, 2 period per week)			
	Introduction and overview: Basic framework of Input-Output Analysis, Overview of various applications. Fundamental concepts: Relationships with National Income accounts and Production Functions, Leontief Inverse, Power series approximation of Leontief Inverse, Open and Closed Models, Price Model. Multipliers: Output Multipliers, Income and Employment Multipliers, Value-added Multipliers, Multipliers and Elasticities. Module 2 (35 marks, 2 period per week)			
	Supply-side Models and Linkages: The Ghosh Model, Reinterpretation of Ghosh model as price model, Linkage analysis, Hypothetical Extraction analysis.			
	Structural Decomposition and Mixed Models: Demand-side decomposition, Sources of change, Mixed Models, New-industry Impacts.			
	Applications : Basic idea of Energy Input-Output Analysis, Environmental Input-Output Analysis, Regional Input-Output Analysis, Total Factor Productivity Analysis.			

Readings	1. Ronald E. Miller and Peter D. Blair, Input-Output Analysis –				
	Foundations and Extensions, Second Edition, Cambridge				
	University Press, 2009. 2. Thijs ten Raa, The Economics of Input-Output Analysis,				
	Cambridge University Press, 2005.				
	3. "Economic Systems Research" – various issues.				
Evaluation	Continuous Internal Assessment: 30 marks End- Semester Theory				
	Examination: 70 marks				
Paper Structure for End- Sem Exam	Module	No. of Questions	No. of	Marks	
		to be Answered	Alternatives		
	Module 1	3	4	3 x 5 = 15	
		2	3	$2 \times 10 = 20$	
	Module 2	2 3	3 4	$ \begin{array}{ccc} 2 \times 10 = 20 \\ \hline 3 \times 5 &= 15 \end{array} $	
	Module 2	_			