

Course Code MAT3008	Computational Game Theory	Course Type	L T
		Credits	3
Prerequisites	Elementary knowledge of Matrices, basic mathematics, Linear programming problem, etc.		
<p>Course Objectives: The objective of the course is to provide an intermediate course on Game Theory. Game theory is the science of strategy. It attempts to determine mathematically and logically the actions that "players" would take to secure the best outcomes for themselves in a wide array of "games." Game Theory can be used to analyse the possible outcomes of situations ranging from card games and sports to strategic price fixing, negotiation, group cooperation. Students will learn to recognize strategic environments and to use Game Theory to gain a better understanding of interactions and outcomes within them.</p> <p>Many of the applications that we will cover will be in the area of economics and management. However, the theory has been successfully applied to sociology, biology, medicine, political science, and many other fields, and in the presentations students are encouraged to look at applications in virtually any of the above areas.</p>			
<p>Course Outcomes: By the end of the course, the students will be able to</p> <ul style="list-style-type: none"> • Analysis of rational decision models • Knowledge of economic reality • Ability to apply basic mathematical concepts of Game Theory to the economy • Analysis of situations from the perspective of strategic interaction. • Skills to manage information • Abstract thinking • Adaptation and clear understanding of the ideas • Ability to work in teams 			
Student Outcomes (SO) : a,e,j,k			
Module No.	Module Description	Hrs.	SO
1	Introduction of Game Theory Introduction of game theory, Characteristics of games, Basic terminology, Nash Equilibrium, Illustrations of Nash Equilibrium, Minimax principles with pure strategies, saddle point, Matrix reduction by dominance principles, Games without saddle point, Graphical method for 2x2 games.	8	a,e,j,k
2	Two person zero-sum game Introduction – Existence of Saddle Point equilibria, Properties of saddle point, Minimax Theorem, Mixed strategies, Computing Saddle Point equilibria, Matrix games properties, mixed strategies by Linear	9	a,e,j,k

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