

Module Title:	COOPERATIVE INFORMATION SYSTEMS
Academic year:	2009 – 2010
Credit Value:	5
Pre- requisites:	None
Assessment:	Exam-60%, CA-40%
Aims	To instill in the student the fundamental principles, issues and challenges in enabling independent systems to cooperate at the semantic level; to develop an understanding of the means by which data can be integrated and manipulated as a unified body of information.
Module Content	<ul style="list-style-type: none"> • Distributed Database Systems • Heterogeneous Data Integration • Interoperability Infrastructure • The Semantic Web
Intended Learning Outcomes:	<p>On completion of the module the student will be able to:</p> <ul style="list-style-type: none"> • Explain the importance of distributed and cooperative information system technology, in its context vis-a-vis database management and distributed computing. • Describe the principles of semantic integration and transaction management in a cooperative environment • Explain the principles of the Semantic Web and ontology development and to apply this knowledge in building semantic web services. • Discuss the infrastructural requirements and solutions for cooperating systems.