

CS416: Semantic Web and Web Mining	L	T	P	Nil
	3	1	0	

Course Objective: To introduce concepts of semantic web and various techniques of web mining.

S. No.	Course Outcomes (CO)
CO1	Describe the evolution of web documents and semantic search techniques.
CO2	Apply XML languages in web-based development.
CO3	Analyze semantic applications, latest developments, and future directions in the Semantic Web.
CO4	Evaluate case studies involving semantic web applications and W3C consortium standards.

S. No	Contents	Contact Hours
UNIT 1	Introduction: The Semantic Web Roadmap, evolution of Web Documents, Semantic Search Techniques.	12
UNIT 2	XML Languages: Detailed study of XML language & application to Web based developments.	12

UNIT 3	Describing Web Resources: Resource Description Framework (RDF), Taxonomies, Ontologies, Web Ontology Language (OWL), Design process of ontology, Annotation.	12
UNIT 4	Advanced Topics: Semantic Applications & Power, Latest on Semantic Web, Future Directions, W3C Consortium, Case studies in different application.	12
	Total	48