## SSN COLLEGE OF ENGINEERING KALAVAKKAM- 603110 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## **COURSE PLAN**

Course Handler : Dr. V.S. Felix Enigo

**Subject Code & Name** : CS6010 - Social Network Analysis

**Batch** : 2014 - 2018

**Class** : BE (CSE) VIII Semester 'B'

**Content Delivery Methods (CDM)** : Powerpoint presentations\Use of ICT\Chalk

and Blackboard - for all lectures, Demonstration during class hours

	Demonstration during class hours				
Unit No. & Name	Topics	CDM	Hours	Hours	Reasons for
			Planned	Handled	Deviation
	Limitations of		1		
	current Web				
	Development of		1		
	Semantic Web				
	Emergence of the		1		
	Social Web		1		
	Development of		1		
	Social Network		1		
	Analysis				
-	Key concepts and		2		
I	measures in network				
	analysis				
INTRODUCTION	Electronic discussion		1		
	networks, Blogs and				
	online communities				
	Web-based networks		1		
	Applications of		1		
	Social Network				
	Analysis				
	Planned Hours		9		
	Ontology-based		1		
	knowledge				
	Representation				
	Resource		1		
	Description		1		
	Framework				
	1 Tallic WOLK				

	W. I. O I		2	1
	Web Ontology		2	
	Language			
	State-of-the-art in		1	
	network data			
	representation			
II	Ontological		1	
	representation of			
MODELLING,	social individuals			
AGGREGATING &	Ontological		1	
KNOWLEDGE	representation of			
REPRESENTATION	social relationships			
	Aggregating and		1	
	reasoning with social			
	network data			
	Advanced		1	
	representations		1	
	Planned Hours		9	
	Planned Hours		9	
	Extracting avalution		1	
	Extracting evolution		1	
	of Web Community			
	from a Series of			
	Web Archive		_	
	Detecting		1	
	communities in			
	social networks			
	Definition of		1	
	community			
	Evaluating		1	
III	communities			
""	Methods for		1	
EXTRACTION AND	community detection			
	and mining			
MINING COMMUNITIES IN WEB SOCIAL NETWORKS	Applications of		1	
	community mining			
	algorithms			
	Tools for detecting		1	
	communities social			
	network			
	infrastructures and			
	communities			
	Decentralized online		1	
	social networks			
	Multi-Relational		1	
	characterization of		1	
	dynamic social			

	network		1	
	communities			
	Planned Hours		9	
	Understanding and		1	
	predicting human			
	behaviour for social			
	communities			
	User data		2	
	management,			
	Inference and			
	Distribution			
	Enabling new human		1	
	experiences, Reality			
	mining, Context –			
IV	Awareness			
DD F-5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	Trust in online		2	
PREDICTING	environment, Trust			
HUMAN	models based on			
BEHAVIOUR AND	subjective logic			
PRIVACY ISSUES	Trust network		1	
	analysis - Trust			
	transitivity analysis			
	Combining trust and		1	
	reputation – Trust			
	derivation based on			
	trust comparisons			
	Attack spectrum and		1	
	countermeasures			
	Planned Hours		9	
	Graph theory,		1	
V VISUALIZATION	Centrality -			
	Clustering			
	Node-Edge		1	
	Diagrams - Matrix			
	representation			
AND	Visualizing online	Demo	2	
APPLICATIONS OF	social networks			
SOCIAL	Visualizing social		1	
NETWORKS	networks with			
	matrix-based			
	representations			
	Matrix and Node-		1	
	Link Diagrams			

Planned Hours	9	
Co-Citation networks.	1	
Community welfare - Collaboration networks		
representations - Applications Cover networks -	1	
Hybrid	1	

Total Number of Syllabus Hours: 45 Total Number of Planned Hours: 45

**Prepared by**Faculty-Incharge

**Reviewed By** PAC- UG Team

Approved by (HOD / CSE)