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

COURSE PLAN

Course Handler : Dr. G. Raghuraman

Subject Code & Name : CS6010 - Social Network Analysis

Batch : 2013 - 2017

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

TI MAI ON	Demonstration during class nours				
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		1		
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		
	Tianneu Hours				
	Ontology-based		1		
	knowledge				
	Representation				
	Resource		1		
	Description				
	Framework				

	1	1		1	T
II	Web Ontology		2		
	Language				
	State-of-the-art in		1		
	network data				
	representation				
	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		
			1		
	representations		0		
	Planned Hours		9		
			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				
MINING	and mining				
COMMUNITIES IN	Applications of		1		
WEB SOCIAL	community mining				
NETWORKS	algorithms				
	Tools for detecting		1		
	communities social				
	network				
	infrastructures and				
	communities				
	Decentralized online		1		
	social networks		1		
	Multi-Relational		1		
	characterization of		1		
	dynamic social				

	network			
	communities			
			0	
	Planned Hours		9	
IV PREDICTING HUMAN BEHAVIOUR AND PRIVACY ISSUES	Understanding and predicting human		1	
	behaviour for social communities			
	User data management, Inference and Distribution		2	
	Enabling new human experiences, Reality mining, Context – Awareness		1	
	Trust in online environment, Trust models based on subjective logic		2	
	Trust network analysis - Trust transitivity analysis		1	
	Combining trust and reputation – Trust derivation based on trust comparisons		1	
	Attack spectrum and countermeasures		1	
	Planned Hours		9	
V VISUALIZATION AND APPLICATIONS OF SOCIAL NETWORKS	Graph theory, Centrality - Clustering		1	
	Node-Edge Diagrams - Matrix representation		1	
	Visualizing online social networks	Demo	2	
	Visualizing social networks with matrix-based representations		1	
	Matrix and Node- Link Diagrams		1	

	ybrid	1	
	presentations -		
A	pplications		
Co	over networks -	1	
	ommunity welfare		
- (Collaboration		
ne	etworks		
Co	o-Citation	1	
ne	etworks.		
PI	anned Hours	9	

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

(Dr. G. Raghuraman)
Prepared by
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Reviewed By PAC- UG Team

Approved by (HOD / CSE)