

## **COURSE INFORMATION**

1.														Social Media Computing							
2 .	Course Code													TDS3							
3 .	Type of Course													Specialization Elective for BCS (DS) and elective for all other specializations							
4 .	(e.g. : Core, major, elective etc.) Synopsis													In this course, we study social media data to understand the relationship between users and the contents they share. Students will learning to apply various techniques to process social media content to extract user opinion and examine social networks.							
5 .	Version (State the date of theSenate's app	roval -	previou	ıs and t	he cur	rent app	oroval o	late)						Curre Previo							
	Name(s) of Academic Staff																	am, Goh Hui Ngo	, Soon Lay Ki, Ian	Tan Kim Teck	
	Semester and Year Offered Credit Value													Trime	ster 1	or 2 (	Delta)				
	Pre-Requisite													TTDS	3301	Data I	/lining				
10 .	Objective of the course in to To equip students with knowled insights from social media da	edge o			dia ch	aracte	ristics	and o	pinion	minin	g. At t	he end	d of th	ne cour	se, st	udents	s would	have the required	knowledge and sk	xills to extract various	
11 .	Justification for including to To provide students with the							edia so	ources.												
12 .	Course Learning Outcomes (CLO)																Domair	1	Level		
12 .	CLO1: Discuss the chara			f vario	us soc	ial me	dia so	urces													
														Cognitive					2		
	CLO2: Apply appropriate NLP techniques for processing social media data.													Cognitive					3		
	CLO3: Examine relationships and their effects in social networks.													Cognitive					4		
40	CLO4: Design a solution for sentiment analysis on social media data.													Cognitive  Methods and Assessment:					6		
13 .		rning	Outco									reaci	ning								
	Course Learning Outcomes (CLO) (Must tally with CLOs in item 12)	P L O	P L O	P L O	P L O	P L O	P L O	P L O	P L O	P L O	P L O 1	P L O 1	P L O 1	Teaching Methods Assessment Method					sment Method		
	1 2 3 4 5 6 CLO1								7 8 9 0 1 2					Lectures, Practical					Assignments, Qui	izzoo	
	CLO2							ľ							_					izzes, Lab Exercises,	
	OLOZ								✓					Lectures, Practical					Presentation & Class participation		
	CLO3								<b>✓</b>					Lectures, Practical					Assignments, Qui Presentation & Cl	izzes, Lab Exercises, ass participation	
	CLO4									<b>✓</b>			Lectures, Practical			il		Assignments,Lab Exercises, Presentatio & Class participation			
	Total							1	2	1				Indicate the relevancy between the CLO and PL (This description must be read together with star 16 & 18 of COPPA 2.0)					PLO by ticking " √" the appropriate relevant box andards 2.1.2, 2.2.1, and 2.2.2 in Area 2 – pages		
14 .	Transferable Skills:	1	1	İ	1	1	1	1	1		1	1	<u> </u>	1			-				
	Transferable skills : analytica How is it developed : Through Assessment : Assignment pro	n open esenta	n ende ation a	d assi nd wri	gnmer tten re	nts on	_			ı											
15 .	Distribution of Student Lea	rning	Time	(SLT)				ı							- - -	ina ar					
	Course Content Outline **CLO												Teaching and Learning Activities Guided Learning (F2F)*  Guided Learning (F2F)*  (NF2F)*				Learning	Independent Learning (NF2F)*	Total SLT		
	Social Computing & Social Media Landscape Social Computing elements (social media, social  1 networking, crowdsourcing, collective intelligence etc.); Functional building blocks of social media and its implications; Role of social media in businesses.							CLO1						* <b>L</b>	*T	* <b>P</b>	*0		4	8	
	Social Media Characteristics & Metrics  2 Categories of social media; Varying format and content characteristics; Scorecarding.					CLO1						4		4			8	16			
	Exploring Trending Topics Sentiment Analysis; Types of opinion (explicit-implicit,									CI 02						6		4	8	20	

sentence, aspect, entity); Opinion summarization; Opinion Spam

4	Sentiment Analysis Preprocessing; Syntactical analysis; Named Entity Recognition; Word sense disambiguation; Sentiment lexicon; Polarity and Sentiment Strength; Document sentiment classification; Sentence sentiment classification	CLO4	8		10		8	18	44			
5	Social Network connectivity and user influence Network centrality metrics: degree, closeness and betweenness centrality, Information and influence propagation on networks	CLO3	6		6			12	24			
							<u> </u>	Total SLT	112			
	Iolai SEI 1											
		SUMMATIVE ASSES	SME	NT								
1. C	1. Continuous Assessment Percentage % Total SLT											
	100   100											
Assi	Assignment 45% 28											
Quiz	Quizzes 10% 4											
Pres	Presentation & Class participation 10% 8											
	Total SLT for Continuous Assessment 48											
2. Fi	2. Final Assessment Percentage % Total SLT											
	F2F ILI											
Fina	Final Exam 0% 0 0											
-	Total SLT for Final Assessment (F2F + NF2F) 0											
Gra	Grand Total 100% 160											
			<u> </u>			100 %			100			
	**Indicate the CLO based on the CLO's numbering in Item 12.  *L= Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Face to Face, NF2F*= Non Face to Face											
	Identify Special Requirement to Deliver the Course (e.g., software, nursery, computer lab, simulation room):											
	Main References:											
N/A												
3 . Add	Additional References:											
Rus	Sponder, M. (2013) Social Media Analytics: Effective Tools for Building, Interpreting, and Using Metrics. McGraw-Hill Professional Russell, M.A (2014) Mining the Social Web: Data Mining Facebook, Twitter, LinkedIn, Google+, GitHub, and More. O'Reilly Media Blanchard, O. (2011). Social Media ROI: Managing and Measuring Social Media Efforts in Your Organization. Pearson Education.											
	Wasserman,S and Faust, K (1994). "Social Network Analysis. Methods and Applications." Cambridge University Press. Chen, W. et.al (2013). Information and Influence Propagation in Social Networks. Morgan and Claypool Publishers.											

Note:

Cells shaded light grey contain formulas / fixed values. Edit these formulas only if needed.