MULTIMEDIA UNIVERSITY®

COURSE INFORMATION

1.	**Name of Course**	Decision Support Systems
2.	**Course Code**	TIC3251
3.	**Type of Course**	Specialization Core
4.	**Synopsis**	The course covers the decision support paradigm, the nature of decision making, decisions in organisations and relationships to other fields of study.
5.	**Version** **(State the date of theSenate's approval - previous and the current approval date)**	Current: January 2018 Previous: June 2016
6.	**Name(s) of Academic Staff**	Chua Fang Fang
7.	**Semester and Year Offered**	Trimester 2 (Gamma)
8.	**Credit Value**	4 credit hours
9.	**Pre-Requisite**	NIL

10. **Objective of the course in the programme:**

To understand the concepts, methodologies and technologies of Decision Support Systems and application to real world problems.

11. **Justification for including the course in the programme:**

This course covers the decision support systems (DSS) and Business Intelligence (BI) concepts, types, applications and tools, and intelligent systems.

12. **Course Learning Outcomes (CLO)**

		Domain	Level
CLO1:	Define the components of Decision Support Systems (DSS).	Cognitive	1
CLO2:	Explain the decision making phases.	Cognitive	2
CLO3:	Identify the decision support technologies in modern organizations.	Cognitive	4
CLO4:	Explain various types of DSS tools and intelligent systems.	Cognitive	2

13. **Mapping of the Course Learning Outcomes to the Programme Learning Outcomes, Teaching Methods and Assessment:**

Course Learning Outcomes (CLO) (Must tally with CLOs in item 12)	Programme Learning Outcomes (PLO)												Teaching Methods	Assessment Method
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12		
CLO1							✓						Lecture/Practical/Tutorial	Test/Final Exam/Assignments
CLO2							✓		✓				Lecture/Practical/Tutorial	Test/Final Exam/Assignments/Tutorials
CLO3								✓					Lecture/Practical/Tutorial	Test/Final Exam/Assignments/Tutorials
CLO4								✓	✓				Lecture/Practical/Tutorial	Final Exam/Assignments
Total							**2**	**2**	**2**				*Indicate the relevancy between the CLO and PLO by ticking "✓" the appropriate relevant box (This description must be read together with standards 2.1.2, 2.2.1, and 2.2.2 in Area 2 – pages 16 & 18 of COPPA 2.0)*	

14. **Transferable Skills:**

Critical thinking-Through brainstorming on given case study and report writing-tutorials and presentations
Communication and Research-Through discussion and teamwork on assignments - assignments

15. **Distribution of Student Learning Time (SLT)**

	Course Content Outline	**CLO	Teaching and Learning Activities – Guided Learning (F2F)* *L	*T	*P	*O	Guided Learning (NF2F)*	Independent Learning (NF2F)*	Total SLT
1	**Decision Support Systems (DSS) Overview** Traditional versus modern decision making, DSS concepts, Decision making phases (Intelligence, Design, Choice and Implementation), DSS components, DSS hardware and DSS classification	**1,2**	4	2				6	12
2	**Decision Making Analysis** Decision Analysis using modelling techniques, decision tables, decision trees, mathematical models, multiple goals, sensitivity analysis, what- if analysis, goal seeking, heuristic programming, simulation, and visual interactive modelling.	**1,2**	6	4	4			14	28
3	**Decision Support System Technologies** Data warehouse, data marts, business analytics, online analytical processing, data mining, data visualization and geographic information systems	**3**	6	4	4			14	28
4	**Decision Support System Development** Traditional system development life cycle, Development methodologies (prototyping and RAD), DSS technology levels and tools	**3**	2	4	2		4	8	20
5	**Collaborative and Enterprise DSS** Group decision making, communication and collaboration, Group support systems (GSS), GSS meeting process, distance learning and creativity, enterprise information systems (EIS), integration of EIS and DSS, Supply Chain Management (SCM), Customer Relationship Management (CRM) and knowledge management	**4**	2	2			4	4	12
6	**Intelligent DSS** Artificial intelligence, expert systems and intelligent system over the internet	**4**	4	2				6	12
								Total SLT	**112**

	SUMMATIVE ASSESSMENT			
	1. Continuous Assessment	**Percentage %**	**Total SLT**	
	Test	15%	5	
	Assignments	25%	17	
	Tutorials	10%	6	
		Total SLT for Continuous Assessment	**28**	
	2. Final Assessment	**Percentage %**	**Total SLT**	
			F2F	**ILT**
	Final Exam	50%	2	18
		Total SLT for Final Assessment (F2F + NF2F)	**20**	
	Grand Total	**100%**	**160**	
	****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**			
16 .	**Identify Special Requirement to Deliver the Course (e.g., software, nursery, computer lab, simulation room):** **Computer Lab**			
17 .	**Main References:** R.Sharda, D.Delen, E. Turban "Business Intelligence and Analytics: Systems for Decision Support", 10th Edition, Pearson Prentice Hall, 2015.			
18 .	**Additional References:**			

Note:

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