MULTIMEDIA UNIVERSITY®

COURSE INFORMATION

1 .	**Name of Course**	Introduction to Probability and Statistics
2 .	**Course Code**	DPS5018
3 .	**Type of Course** **(e.g. : Core, major, elective etc.)**	Core/Major Diploma in Business Information System Elective Diploma in Information Technology
4 .	**Synopsis**	This subject will expose students to basic concepts of probability and statistics. Students will be able to understanding the fundamental concepts of statistics which might help them in decision making.
5 .	**Version** **(State the date of theSenate's approval - previous and the current approval date)**	Current: ADC Oct 2017 Previous: May 2015
6 .	**Name(s) of Academic Staff**	**Tan Sin Yin, Farah Izzati Yussoff**, Ikha Fadzila Md Idris, Mar Syazana Maslin, Nabil Abas, Nurainiah Abu Hassan, Norizzati Salleh, Suraya Md Suyod, Tan Chun Fui
7 .	**Semester and Year Offered**	Trimester 2, Year 1
8 .	**Credit Value**	3
9 .	**Pre-Requisite**	None
10 .	**Objective of the course in the programme:**	
	To provide basic statistics knowledge background for students pursuing information technology and business information system courses.	
11 .	**Justification for including the course in the programme:**	
	This subject will expose students to basic concepts of probability and statistics. Students will be able to understanding the fundamental concepts of statistics which might help them in decision making.	
14 .	**Transferable Skills:**	
	Communication skills	

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	**Topic 1: Introduction of Statistics** Concepts of Statistics (Types of Statistic, Sampling Method); Organizing Data (Graphing); Descriptive Statistics (Measures of Central Tendency & Dispersion, Skewness)	**1,2**	4	1				5	10
2	**Topic 2: Probability** Sample Space; Events; Sets; Properties of Probability; Tree Diagram; Venn Diagram; Conditional Probability and Bayes Theorem	**1**	4	2				6	12
3	**Topic 3: Probability Distribution: Discrete & Continuous** Discrete Probability Distribution Discrete Random Variable, Binomial Distribution and Poisson Distribution; Normal Distribution; Application of the Probability Distribution	**1**	8	4				12	24
4	**Topic 4: Estimation** Concepts of Estimation, Points and Interval Estimates for Mean and Proportion	**1**	2	2				4	8
5	**Topic 5: Hypothesis Testing** Hypothesis Testing Procedures; One Sample Test Mean & Proportion; Two Independent Sample Test – Mean & Proportion	**2**	6	3				9	18
6	**Topic 6: Simple Linear Regression Analysis** Simple Linear Regression Model & Analysis; Linear Correlation; Test of Significance for Models & Regression Slope; Interpolation & Extrapolation	**2**	4	1				5	10
								Total SLT	**82**

SUMMATIVE ASSESSMENT

1. Continuous Assessment	**Percentage %**	**Total SLT**
Quiz	10%	5

	Test	20%	7	
	Assignments	20%	12	
		Total SLT for Continuous Assessment	**24**	
	2. Final Assessment	**Percentage %**	**Total SLT**	
			F2F	**ILT**
	Final Exam	50%	2	12
		Total SLT for Final Assessment (F2F + NF2F)	**14**	
	Grand Total	**100%**	**120**	
	****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):**			
17 .	**Main References:** 1. Suraya, M.S., Nurainiah, A.H., Tan, S.Y., Ikha, F.M.I., & Mar S.M. (2015). Introduction to Probability & Statistics (1st edition). Pearson Malaysia. (E-book version) 2. Lindley, D.V., Scot, W.F. (1995). New Cambridge Statistical tables. Cambridge University Press. 3. Muhammad, R. M., Faridah, A.H. (2011). Business Statistics (1st edition). Oxford.			
18 .	**Additional References:**			
	1. Weiss, N. A. (2012). Introductory Statistics (9th edition). Pearson.			
	2. Richard A.J. (2001). Probability and Statistics for Engineers. (6th Edition) Prentice Hall.			