1	Name of Course :	Probability and Statistical Modelling Version Number:											VD1		
	Course Code :	AQ077-3-2 Effective Date:										01 Sep 2019			
2	Synopsis :		This module covers a variety of probabilistic techniques which enable predictions to be made about problems that are characterised by uncertainty, and introduces statistical methods of data analysis which allow inferences to be drawn about large populations from samples. Adie Safian; Low Kok Sun; Tan Kok Kiang												
3	Name(s) of academic staff :	Adie Saf													
4	Semester and Year offered:	-	See Programme Specification (Module may be delivered on multiple programmes and therefore in different years/semesters)												
5	Credit Value :	3													
6	Prerequisite/co-requisite: (if any)	Mathem	atical Cor	ncepts for	Computi	ng									
7	Course Learning Outcomes (CLO) (example) - explain the basic pri					nts will b	e able to:								
	CLO1	Comprehend the fundamental of probability and statistical models (C2, PLO1)													
	CLO2	Perform the statistical analysis using Excel output (A2, PLO6)													
	CLO3	Determine appropriate probability and statistical models in solving problem (C4, PLO7)													
8	Mapping of the Course Learning Outcomes to the Programme Learning Outcomes, Teaching Methods and Assessment: Please select the learning outcome Domain(LOD) for														
	each PLO in the cells above it. E.g Course Learning Outcomes	PLO1- Kn	owledge	and Unde					3-Practica						
	(CLO)	Knowledge and	Cognitive	Practical	Interpersonal	Communicati	Digital Skills,	Numeracy	Leadership,	Personal	Entrepreneuri	Ethics and professionalis	Ī	Teaching	Assessment
		Understandin g,	Skills,	Skills,	Skill,	on skill,		Skills,	and responsibility,	Skills,	al Skills,	m		Methods	
	CLO 1	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	Lecture,	Quiz 1, Quiz 2,
		√												Tutorial	Final Exam (Sect. A)
	CLO 2						✓							Tutorial	Practical Test
	CLO 3							✓						Lecture, Tutorial	Final Exam (Sect. B)
															,
	Indicate the relevancy between the CLO and PLO by ticking "V" 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)														
9	Transferable Skills (if applicable) (Skills learned in the course of st	udy whic	h can be	1	Digital Skills,										
		useful and utilized in other settings)			Numeracy Skills,										
				4											
10	Distribution of Student Learning	Time (SI	т\	5											
	Distribution of Student Learning Time (SLT)														
					Teaching and Learning Activities Guided Learning (F2F) Guided								ided		
	Course Content O	Outline		CLO*		L		r		•	О	(NF2F) Lear		Independent Learning (NF2F)	nt _{SLT}
	Concept of Probability	1		2						e-lea	ITIIIII	2	4		
	Summary Measures of Statistics	1		2								4	6		
	Correlation and Regression Analysis				4	4								4	8
	Probability Distribution			1	-	4								4	8
	Estimation and Confidence Inter	1	-	4								4	8		
	Hypothesis Testing					4								4	8
	Decision Making Techniques Practical example 1: Concept of	1	:	2								2	4		
	Summary Measures of Statistics Practical example 2: Correlation	2					5	5				10	15		
	Analysis and Probability Distribution			2						7				10	17

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Int	actical example 3: Estimation and Confidence erval, Hypothesis Testing and Decision Making chniques)	3				8			16	24	
Г										0	
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L										0	
	Total									102	
L											
	Continuous Assessment	Percent	tage (%)	F2F			SLT				
1		10		0.5				1.5		2	
2		10		0.5			2				
3	Practical Test	3	10	1.5			6				
4							0				
5										0	
6										0	
7										0	
	Tota								Total	10	
	Final Assessment	Percentage (%)		F2F			SLT				
1	Final Exam (Sect. A)	25		1		3					
2	Final Exam (Sect. B)	2	.5	1				3		4	
3										0	
4											
										0	
5										0	
5									Total		
** Eff	Please tick (V) if this course is Latihan Industri/ C ective Learning Time (ELT) of 50%						G	RAND TOTAL SLT	Total	0	
** Eff L =	Please tick (V) if this course is Latihan Industri/ C ective Learning Time (ELT) of 50% Lecture, T = Tutorial, P= Practical, O= Others, F2	F=Face to					G	RAND TOTAL SLT	Total	0 8	
** Eff L = */r . Ide	Please tick (V) if this course is Latihan Industri/ C ective Learning Time (ELT) of 50%	F=Face to Item 8.					G	RAND TOTAL SLT	Total	0 8	
** Eff L = *Ir L Ide the	Please tick (v) if this course is Latihan Industri/ Cective Learning Time (ELT) of 50% Lecture, T = Tutorial, P= Practical, O= Others, F2 dicate the CLO based on the CLO's numbering in entify special requirement to deliver e course (e.g. software, nursery,	F=Face to Item 8. ft Excel	Face, NF2	2F=Non Face to Fa	Essential Rea 1. Bluman, A. Hill Higher Ed 2. Oakshott, I	. (2017). Eleme ducation. (ISBN L. (2016) Essen	ntary Sta I-13: 978 tial Quan	tistics: A Step By Si -1259755330; ISBN titative Methods f 978-1137518552)	tep Approach, 10 I-10: 125975533	0 8 120 Oth Ed. McGraw 9).	

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