


1	Course Name:	Artificial Intelligence														
	Course Code:	BMCS2003														
	Course Classification:	Major (core)														
2	Synopsis:	This course provides students with knowledge of the methods and techniques by which computers may be made to perform tasks that are normally thought to require intelligence, for instance intelligent searching, knowledge representations and processing, uncertainty management, expert system, natural language and image processing, and machine learning. Students will also be equipped with the knowledge and skills to develop artificial intelligent programs using Python programming language or other related technology.														
3	Name(s) of Academic Staff:	1														
		2														
		3														
4	Semester and Year offered:	Year Offered		Semester		Remarks: Refer to programme structure										
5	Credit Value:	3														
6	Pre-requisite/ co-requisite (if any):	Nil														
7	Course Learning Outcomes (CLO) 	CLO1	Analyse the principles of existing intelligent systems and Artificial Intelligence (AI) techniques available in the areas of artificial intelligence (C4, PLO2)													
		CLO2	Demonstrate AI techniques and strategies to solve a given problem (A3, PLO9).													
		CLO3	Produce AI application using programming language or other relevant technology (P4, PLO3).													
8	Mapping of the Course Learning Outcomes to the Programme Learning Outcomes, Teaching Methods and Assessment Methods															
	Course Learning Outcomes	Programme Learning Outcomes (PLO)											Teaching Methods	Assessment Methods		
		PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11				
	CLO1		✓											L,T,P,O,NF2F	Test, Examination	
	CLO2									✓				L,T,P,O,NF2F	Assignment	
	CLO3			✓										L,T,P,O,NF2F	Assignment	
	Mapping with MQF Cluster of Learning Outcomes		C2	C3A							C4A					
	Indicate the primary causal link between the CLO and PLO by ticking '✓' in the appropriate box.															
C1 = Knowledge & Understanding, C2 = Cognitive Skills, C3A = Practical Skills, C3B = Interpersonal Skills, C3C = Communication Skills, C3D = Digital Skills, C3E = Numeracy Skills, C3F = Leadership, Autonomy & Responsibility, C4A = Personal Skills, C4B = Entrepreneurial Skills, C5 = Ethics & Professionalism																
9	Transferable Skills (if applicable)															
	(Skills learned in the course of study which can be useful and utilized in other settings)															
	1	Cognitive skills														
	2	Personal Skills														

Final Assessment		%	Face-to-Face (F2F)		NF2F Independent Learning for Assessment (Asynchronous)	
			Physical	Online/ Technology- mediated (Synchronous)		
1	Examination	30	2		8	
2						
3						
4						
5						
SUB-TOTAL SLT:					10	
SLT for Assessment:					36	
GRAND TOTAL SLT:					120	
A	% SLT for F2F Physical Component: $\frac{[Total\ F2F\ Physical]}{[Total\ F2F\ Physical + Total\ F2F\ Online + Total\ Independent\ Learning]} \times 100$				51.67	
B	% SLT for Online & Independent Learning Component: $\frac{[(Total\ F2F\ Online + Total\ Independent\ Learning)]}{[Total\ F2F\ Physical + Total\ F2F\ Online + Total\ Independent\ Learning]} \times 100$				48.33	
C	% SLT for All Practical Component: $[\% F2F\ Physical\ Practical + \% F2F\ Online\ Practical]$				23.33	
C1	% SLT for F2F Physical Practical Component: $\frac{[Total\ F2F\ Physical\ Practical]}{[Total\ F2F\ Physical + Total\ F2F\ Online + Total\ Independent\ Learning]} \times 100$				23.33	
C2	% SLT for F2F Online Practical Component: $\frac{[Total\ F2F\ Online\ Practical]}{[Total\ F2F\ Physical + Total\ F2F\ Online + Total\ Independent\ Learning]} \times 100$				0.00	

Please tick (v) if this course is **Industrial Training/ Clinical Placement/ Practicum** using 50% of Effective Learning Time (ELT)

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Note:

* Indicate the CLO based on the CLO's numbering in Item 8

** For ODL programme: Courses with mandatory practical requirements imposed by the programme standards or any related standards can be exempted from complying to the minimum 80% ODL delivery rule in the SLT.

11	Identify special requirement or resources to deliver the course (e.g., software, nursery, computer lab, simulation room etc)	Anaconda Distribution
12	References (include required and further readings, and should be the most current)	Main references supporting the course 1. Stephen, L., et al. (2022). <i>Artificial intelligence in the 21st century</i> (3rd ed.). Mercury Learning and Information. https://tarcez.tarc.edu.my/login?url=https://ebookcentral.proquest.com/lib/tarc-ebooks/detail.action?docID=7025176 . 2. Stuart J. R., et al. (2022). <i>Artificial intelligence: a modern approach</i> (4th ed.). Pearson. https://tarcez.tarc.edu.my/login?url=https://ebookcentral.proquest.com/lib/tarc-ebooks/detail.action?docID=6805255 . 3. Roshani R., et al. (2022). <i>Green Internet of Things and machine learning</i> . John Wiley. https://tarcez.tarc.edu.my/login?url=https://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&db=nlabk&AN=3139480 . 4. Wes M. (2022). <i>Python for data analysis: data wrangling with Pandas, NumPy, and IPython</i> (3rd ed.). O'Reilly Media. https://tarcez.tarc.edu.my/login?url=https://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&db=nlabk&AN=3360238 .
13	Other additional information (if applicable)	Nil
Note: Number of PLO indicated is purely for illustration purposes only and the number is subjected to the curriculum design.		