AY2025-2026

Curriculum for Bachelor of Computing in AI and Society WITH USP

	SUMMARY OF ACADEMIC UNIT REQUIREMENT								
			USP Requ	uirements		ICC			
Year of Study	Core	MPE	USP Core	USP PE	Common-Core	Professional Series	Care, Serve, Learn	BDE	Total AU
1	18	0	11	0	0	3	0	0	32
2	18	0	0	6	5	0	0	3	32
3	10	6	0	3	0	10	3	0	32
4	11	18	0	3	0	1	0	4	37
Total	57	24	11	12	-	14	2	7	133

Recommended Course Schedule

	YEAR 1 SEMESTER 1			
Course Code	Course Title	Туре	AU	Pre-requisite
SC1003	Introduction to Computational Thinking & Programming	PS	3	Nil
SC2000	Probability & Statistics for Computing	Core	3	Nil
MH2802	Linear Algebra for Scientists	Core	3	Nil
	Broadening and Deepening Elective	BDE		
HW0002	Calculus	-	-	For student not done Calculus
SP0001	Writing & Reasoning	USP Core	3	
SP0008	Living Well	USP Core	2	
			14	

	YEAR 1 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-requisite
SC1007	Data Structures & Algorithms	Core	3	SC1003
MH1812	Discrete Mathematics	Core	3	Nil
SC2002	Object Oriented Design & Programming	Core	3	SC1007
SC1304	Al For Social Good	Core	3	Nil
SP0002	Ethics	USP Core	3	
SP0007	Fieldwork & Documentation: Topics In Sustainability	USP Core	3	
			18	

Year 1 Total AU 32

	YEAR 2 SEMESTER 1			
Course Code	Course Title	Туре	AU	Pre-requisite
SC2001	Algorithm Design & Analysis	Core	3	SC1007 & MH1812
SC3000	Artificial Intelligence	Core	3	SC1007 & SC2000
SC2304	Ethical AI	Core	3	Nil
CC0006	Data Structures & Algorithms	CC		Read SP0007
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2	Nil
	USP Prescribed Elective	USP PE	3	
	USP Prescribed Elective	USP PE	3	
			17	

	YEAR 2 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-requisite	
SC4000	Machine Learning	Core	3	SC1004 & SC1007 & SC2000	
SC4001	Neural Networks and Deep Learning	Core	3	SC1004 & SC1007 & SC2000	
SCxxxx	Al For Society	Core	3	Nil	
CC0007	Science & Technology for Humanity	CC	3	Nil	
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule	
	CSL (service learning course)- Part 1	CSL	-	(Continue in Semester 2)	
		_	15		

Year 2 Total AU 32

	YEAR 3 SEMESTER 1			
Course Code	Course Title	Туре	AU	Pre-requisite
SC4002	Natural Language Processing	Core	3	SC2001
SC4061	Al for Computer Vision	Core	3	SC4000
SCxxxx	Design Project - Al in Society	Core	4	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
	USP Prescribed Elective	USP PE	3	
	CSL (service learning course)- Part 2	CSL	3	(Continue from Semester 1)
			22	

	YEAR 3 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-requisite	
SC3920	Professional Internship (Graded)	PS	10	Year 3 Standing	
			10		

	YEAR 4 SEMESTER 1			
Course Code	Course Title	Туре	AU	Pre-requisite
SCxxxx	RAI Capstone Project (Part 1)	Core	4	Year 4 Standing
SC4062	Introduction to Generative Al	Core	3	SC4000
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
ML0015	Professsion Preparation	PS	1	Nil
	USP Prescribed Elective	USP PE	3	
			20	

	YEAR 4 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-requisite
SCxxxx	RAI Capstone Project (Part 2)	Core	4	Year 4 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
			16	

Year 4 Total AU 36

AISC MPE list (U24 and after)						
Choose 8 in total, and at least 2 from each group						
Course Title						
Technical Group:						
Intelligent Agents						
Blockchain Technology						
Large Language Models						
Generative Learning for Computer Vision						
Deep Generative Models						
Society Group:						
Person and Society						
Law of Intellectual Proerty and New Media						
Social Entrepreneurship						
Classical Social Theory						
Principles of Economics						
Fundamentals of Politics						