

AY2024-2025

CURRICULUM FOR ARTIFICIAL INTELLIGENCE AND SOCIETY

SUMMARY OF ACADEMIC UNIT REQUIREMENT

Year of Study	Core	MPE	ICC		BDE	Total AU
			Common-Core	Foundational-Core		
Y1	18	0	9	3	3	33
Y2	18	0	8	2	6	34
Y3	10	6	0	10	3	29
Y4	11	18	0	0	6	35
Total	57	24	17	15	18	131

Recommended Course Schedule

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
MH1812	Discrete Mathematics	Core	3	Nil
MH2802	Linear Algebra for Scientists	Core	3	Nil
CC0001	Inquiry & Communication in an Interdisciplinary World	C-Core	2	Nil
CC0002	Navigating the Digital World	C-Core	2	Nil
SC1003	Introduction to Computational Thinking & Programming	F-Core	3	Nil
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
HW0001	Introduction to Academic Communication	-	-	For student failed QET
HW0002	Calculus	-	-	For student not done Calculus
TOTAL			13	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC1007	Data Structures & Algorithms	Core	3	SC1003
SC1304	Artificial Intelligence For Social Good	Core	3	Nil
SC2000	Probability & Statistics for Computing	Core	3	Nil
SC2002	Object Oriented Design & Programming	Core	3	SC1007
CC0003	Ethics & Civics in a Multicultural World	C-Core	2	Nil
CC0005	Healthy Living & Wellbeing	C-Core	3	Nil
TOTAL			17	
Year 1 Total AU			30	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC2001	Algorithm Design & Analysis	Core	3	SC1007 & MH1812
SC2304	Ethical AI	Core	3	Nil
SC3000	Artificial Intelligence	Core	3	SC1007 & SC2000
CC0006	Sustainability: Society, Economy & Environment	C-Core	3	Nil
ML0004	Career & Innovative Enterprise for the Future World	C-Core	2	Nil
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
TOTAL			17	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC2306	AI For Society	Core	3	Nil
SC4000	Machine Learning	Core	3	SC1004 & SC1007 & SC2000
SC4001	Neural Networks and Deep Learning	Core	3	SC1004 & SC1007 & SC2000
CC0007	Science & Technology for Humanity	C-Core	3	Nil
HW0218	Communication Across the Sciences	F-Core	2	CC0001
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
TOTAL			17	
Year 2 Total AU			34	

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC3098	Design Project - AI in Society	Core	4	Year 3 Standing
SC4002	Natural Language Processing	Core	3	SC2001

SC4061	AI for Computer Vision	Core	3	SC4000
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE-1	3	Refer to MPE listing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE-2	3	Refer to MPE listing
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
TOTAL			19	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SD3079	Professional Internship (Graded)	F-Core	10	Year 3 Standing
TOTAL			10	
	Year 3 Total AU		29	

YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SCxxxx	RAI Capstone Project (Part 1)	Core	4	Year 4 Standing
SC4262	Generative Artificial Intelligence - Advanced Topics	Core	3	SC4001 & SC4002
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE-3	3	Refer to MPE listing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE-4	3	Refer to MPE listing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE-5	3	Refer to MPE listing
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
TOTAL			19	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SCxxxx	RAI Capstone Project (Part 2)	Core	4	Year 4 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE-6	3	Refer to MPE listing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE-7	3	Refer to MPE listing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE-8	3	Refer to MPE listing
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
TOTAL			16	
	Year 4 Total AU		19	
Grand Total (Year 1 to 4)			24	

Important Note:

- Students are required to complete a **total of 8 Major Prescribed Electives (MPEs)**, with at least **2 from each group (Technical group and Society group)**.
- In order to graduate with **Highest Distinction**, students must achieve **minimum CGPA of 4.5**

AISC MPE list (U24 and after)			
Choose 8 MPE in total, at least 2 MPE from each group			
Course Code	AU	Course Title	Pre-requisite
Society Group (Choose at least 2 courses)			
HS1001	3	Person and Society	Nil
HS2001	3	Classical Social Theory	HS1001
HA1012	3	Fundamentals of Politics	Nil
HE5091	3	Principles of Economics	Nil
BU5302	3	Law of Intellectual Property and New Media	Nil
AB0603	3	Social Entrepreneurship	Nil
Technical Group (Choose at least 2 courses)			
SC3xxx / SC4xxx	All SCxxxx MPEs offered by CCDS		
For the full list of eligible AISC MPE courses, please refer to the CCDS website.			