

AISC MPE list (U24 and later cohorts)**Choose 8 modules in total, and at least 2 from each group (Technical group and Society group).****AISC MPE list for AY2024 and later Cohorts****SOCIETY GROUP (Choose at least 2 courses)**

Course Code	Course Title	Type	AU	Offering		Pre-requisite
				S1	S2	
HS1001	Person and Society	MPE	3	√		Nil
HS2001	Classical Social Theory	MPE	3	√		HS1001
HA1012	Fundamentals of Politics	MPE	3	√		Nil
HE5091	Principles of Economics	MPE	3	√	√	Nil
BU5302	Law of Intellectual Property and AI	MPE	3		√	Nil
AB0603	Social Entrepreneurship	MPE	3	√	√	Nil

TECHNICAL GROUP (Choose at least 2 courses)

Course Code	Course Title	Type	AU	Offering		Pre-requisite
				S1	S2	
SC3000	Artificial Intelligence	MPE	3	√	√	SC1007 & SC2000 or SC1007 & MH2500
SC3010	Computer Security	MPE	3	√	√	SC2005
SC3020	Database System Principles	MPE	3	√	√	SC2207
SC3021	Data Science Fundamental	MPE	3		√	SC1005
SC3030	Advanced Computer Networks	MPE	3	√		SC2008
SC3040	Advanced Software Engineering	MPE	3	√		SC2006
SC3050	Advanced Computer Architecture	MPE	3	√		SC1006
SC3060	Computer Graphics and Visualization	MPE	3	√		Year 3 Standing
SC3061	Human-Computer Interaction	MPE	3	√		Year 3 Standing
SC3270	Reasoning About Programs	MPE	3	√		SC2001 or SC2301 or MH1812 & MH1403
SC4003	Intelligent Agents	MPE	3		√	SC1007 & SC2000 or SC1007 & MH2500
SC4010	Applied Cryptography	MPE	3	√		SC2000 or MH2500
SC4011	Security Management	MPE	3	TBC		
SC4012	Software Security	MPE	3		√	SC2002 & SC2005
SC4013	Application Security	MPE	3	√		SC2005 & SC2008
SC4014	Concepts and Techniques for Malware Analysis	MPE	3	TBC		
SC4015	Cyber Physical System Security	MPE	3		√	SC1006
SC4016	Cyber Threat Intelligence	MPE	3	√		Year 3 Standing
SC4017	Data Privacy & Security	MPE	3	TBC		
SC4020	Data Analytics and Mining	MPE	3	√		SC2001 or MH1403
SC4021	Information Retrieval	MPE	3		√	SC2001 or MH1403
SC4022	Network Science	MPE	3	TBC		
SC4023	Big Data Management	MPE	3		√	SC2207
SC4024	Data Visualisation	MPE	3	√		SC1003 & MH2500 or SC1003 & SC2000
SC4025	Digital Product Management	MPE	3	√		SC2006
SC4030	Wireless and Mobile Network	MPE	3	√		SC2008
SC4031	Internet of Things: Communications and Networking	MPE	3		√	SC2008
SC4040	Advanced Topics in Algorithms	MPE	3	√		SC2001
SC4050	Parallel Computing	MPE	3	√		SC2001

SC4051	Distributed Systems	MPE	3		√	SC2005 & SC2008
SC4052	Cloud Computing	MPE	3		√	SC1004 or MH2802
SC4053	Blockchain Technology	MPE	3	√		MH1812 ,SC1007 ,SC2001
SC4054	Simulation and Modelling	MPE	3			TBC
SC4055	Introduction to Quantum Computing	MPE	3			TBC
SC4060	Virtual and Augmented Reality	MPE	3			TBC
SC4062	Generative Artificial Intelligence – Advanced Topics	MPE	3	√		SC4001 & SC4002
SC4063	Network Security	MPE	3		√	SC2005 & SC2008
SC4064	GPU Programming	MPE	3		√	SC2001, SC2005
SC4090	Applications of Data Science and AI in Accounting	MPE	3	√		SC1007&SC2000 or SC1007 &MH2500
SC4172	Internet of Things: Tiny Machine Learning	MPE	3		√	SC2107
SC4242	Compiler Techniques	MPE	3	√		SC2001&SC2006
SC4262	Introduction to Generative AI	MPE	3			TBC

Important Notes for AISC MPE:

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).

Semester offered is indicative only. Students should refer to the official [class schedule](#) for the latest course offering information prior to registration.

Courses marked as “ **TBC** ” indicate that the semester of offering (S1/S2) has yet to be confirmed.

Students are encouraged to plan with flexibility and check for updates during the course registration period.