

AISC MPE list (U24 and later cohorts)

Choose 8 modules in total, and at least 2 from each group.

AISC MPE list for AY2024 and later Cohorts

TECHNICAL GROUP

Course Code	Course Title	Type	AU	Offering		Pre-requisite
				S1	S2	
SC4003	Intelligent Agents	MPE	3		√	SC1007 ,SC2000 , MH2500
SC4053	Blockchain Technology	MPE	3	√		MH1812 ,SC1007 ,SC2001

SOCIETY GROUP

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
BUS5302	Law of Intellectual Property and AI	MPE	3		√	Nil
AB0603	Social Entrepreneurship	MPE	3	√	√	Nil

Areas of Specialisation: ARTIFICIAL INTELLIGENCE

Course Code	Course Title	Type	AU	Offering		Pre-requisite
				S1	S2	
SC3000	Artificial Intelligence	MPE	3	√	√	SC1007 & SC2000 or SC1007 &MH2500
SC4000	Machine Learning	MPE	3	√	√	SC1004 & SC1007 & SC2000 or SC1007&MH2500
SC4001	Neural Networks & Deep Learning	MPE	3	√		SC1004 & SC1007 or MH2802& SC1007
SC4002	Natural Language Processing	MPE	3	√		SC2001 or MH1403 Year 3 Standing
SC4003	Intelligent Agents	MPE	3		√	SC1007 & SC2000 or SC1007 &MH2500
SC4061	Computer Vision	MPE	3	√		Year 3 Standing
SC4062	Generative Artificial Intelligence – Advanced Topics	MPE	3	√		SC4001 & SC4002
SC4172	Internet of Things: Tiny Machine Learning	MPE	3		√	SC2107

Areas of Specialisation: SECURITY

Course Code	Course Title	Type	AU	Offering		Pre-requisite
				S1	S2	
SC3010	Computer Security	MPE	3	√	√	SC2005
SC4010	Applied Cryptography	MPE	3	√		SC2000 or MH2500
SC4011	Security Management	MPE	3			TBC
SC4012	Software Security	MPE	3		√	SC2002 & SC2005
SC4014	Concepts and Techniques for Malware Analysis	MPE	3			TBC
SC4015	Cyber Physical System Security	MPE	3		√	SC1006
SC40106	Cyber Threat Intelligence	MPE	3	√		Year 3 Standing
SC4063	Network Security	MPE	3		√	SC2005 & SC2008

Areas of Specialisation: DATA SCIENCE

Course Code	Course Title	Type	AU	Offering		Pre-requisite
				S1	S2	
SC3020	Database System Principles	MPE	3	√	√	SC2207
SC4000	Machine Learning	MPE	3	√		SC1004 & SC1007 &SC2000
SC4002	Natural Language Processing	MPE	3	√		SC2001 or MH1403
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

OTHER MPEs

Course Code	Course Title	Type	AU	Offering		Pre-requisite
				S1	S2	
SC3021	Data Science Fundamental	MPE	3		√	SC1005
SC3270	Reasoning About Programs	MPE	3	√		SC2001 or SC2301 or MH1812 & MH1403