

ARTIFICIAL INTELLIGENCE, MASTER OF SCIENCE (M.S.)

Course	Title	Credits
Core		
MSAI601	Probability and Statistics (Probability and Statistics)	3
MSAI602	Principles of Data Science (Principles of Data Science)	3
MSAI603	Principles of Machine Learning (Principles of Machine Learning)	3
MSAI605	Computing Systems for Machine Learning (Computing Systems for AI)	3
MSAI606	(Human-Centered and Participatory Approaches to AI)	3
MSAI630	(Safe and Trustworthy AI)	3
MSAI631	(AI and Society)	3
Electives		9
MSAI632	(Generative AI)	
MSAI633	(AI Policy)	
MSAI634	(AI in Engineering)	
MSAI604	(Introduction to Optimization for AI)	
MSAI612	Deep Learning (Deep Learning for AI)	
MSAI640	Computer Vision (Computer Vision for AI)	
MSAI641	Natural Language Processing (Natural Language Processing for AI)	
MSAI642	(Robotics for AI)	
MSAI650	(Cloud Computing for AI)	
MSAI651	(Big Data Analytics for AI)	
MSAI635	(Reinforcement Learning)	
MSAI636	(Explainable and Interpretable AI)	
MSAI660	(Probabilistic Graphical Models and Bayesian Learning)	
MSAI661	(Causal Inference and AI Decision Making)	
MSAI662	(Adversarial Machine)	
MSAI663	(Graph Neural Networks and Structured Data Learning)	
MSAI664	(Meta-Learning and Few-Shot Learning)	
MSAI665	(AI for Healthcare and Biomedical Applications)	
MSAI666	(AI for Cybersecurity)	
MSAI667	(AI for Finance and Algorithmic Trading)	
MSAI670	(Applied Ethics of AI)	
Total Credits		30