Master of Science in Computer Science Engineering (MSCSE)

Core Courses (Total 8 courses = 32 credits)

Course Code	Course Title	Credits
MSCSE600	Advanced Computer Science Engineering	4
MSCSE601	Software Engineering & Design Patterns	4
MSCSE602	Data Structures and Algorithm Optimization	4
MSCSE603	Cloud Computing & Distributed Systems	4
MSCSE604	Cybersecurity & Ethical Hacking	4
MSCSE605	Artificial Intelligence & Deep Learning	4
MSCSE606	Big Data Analytics & Data Science	4
MSCSE607	Business Strategy for Tech Leaders	4

Specialization Courses: Robotics & Drone Technology Track (6 courses = 24 credits)

Course Code	Course Title	Credits
MSCSE620	Fundamentals of Robotics & Autonomous Systems	4
MSCSE625	Drone Technology & UAV Systems	4
MSCSE630	AI & Machine Learning for Robotics	4
MSCSE635	Embedded Systems & IoT for Smart Machines	4
MSCSE640	Autonomous Vehicle Navigation & Control	4
MSCSE645	Swarm Robotics & Multi-Agent Systems	4

Capstone Project (1 course = 4 credits)

Course Code	Course Title	Credits
MSCSE710	Applied Robotics & AI Capstone Project	4

Program Distribution:

Quarter 1

- MSCSE600 – Advanced Computer Science Engineering
- MSCSE601 – Software Engineering & Design Patterns
  Total: 8 credits

Quarter 2

- MSCSE602 – Data Structures and Algorithm Optimization

- MSCSE603 – Cloud Computing & Distributed Systems
  Total: 8 credits

Quarter 3

- MSCSE604 – Cybersecurity & Ethical Hacking
- MSCSE605 – Artificial Intelligence & Deep Learning
  Total: 8 credits

Quarter 4

- MSCSE606 – Big Data Analytics & Data Science
- MSCSE607 – Business Strategy for Tech Leaders
  Total: 8 credits

Quarter 5

- MSCSE620 – Fundamentals of Robotics & Autonomous Systems
- MSCSE625 – Drone Technology & UAV Systems
  Total: 8 credits

Quarter 6

- MSCSE630 – AI & Machine Learning for Robotics
- MSCSE635 – Embedded Systems & IoT for Smart Machines
  Total: 8 credits

Quarter 7

- MSCSE640 – Autonomous Vehicle Navigation & Control
- MSCSE645 – Swarm Robotics & Multi-Agent Systems
  Total: 8 credits

Quarter 8

- MSCSE710 – Applied Robotics & AI Capstone Project
- Optional Leadership Seminar or Research Prep*
  Total: 8 credits