

Master of Science in Computer Science (MSCS)

Minor/Core Courses

S#	Code	Course Title	Credit Hours
1.	CSC-718	Theory of Computation	3(3-0)
2.	CSC-719	Advanced Operating Systems	3(3-0)
3.	CSC-721	Advanced Algorithm Analysis	3(3-0)
4.	CSC-763	Research Methods & Statistical Analysis	3(3-0)

❖ **Any Three courses from above S. No. 1 to 4.**

1.	CSC-708	Special Problem	1(1-0)
2.	CSC-720	Seminar-I	1(1-0)
3.	CSC-799	MS Thesis	06(0-12)

Major/Specialization in Software Engineering (Any Five Courses)

1.	CSE-726	Advanced Software Engineering	3(3-0)
2.	CSE-732	Object Oriented Software Engineering	3(3-0)
3.	CSE-734	Formal Software Specification and Development	3(3-0)
4.	CSE-736	Software Quality Assurance	3(3-0)
5.	CSE-738	Software Requirements Engineering	3(3-0)
6.	CSE-739	Software Engineering Processes	3(3-0)
7.	CSE-742	Software Project Management	3(3-0)
8.	CSE-743	Trends in Software Engineering	3(3-0)
9.	CSE-744	Software Analysis and Design Patterns	3(3-0)
10.	CSE-746	Topics in Object Oriented Analysis and Design	3(3-0)
11.	CSE-748	Software Architecture	3(3-0)

Major/Specialization in Networks (Any Five Courses)

1.	CSN-750	Advanced Computer Networks	3(3-0)
2.	CSN-751	Network Security	3(3-0)
3.	CSN-752	Wireless Networks	3(3-0)
4.	CSN-755	Integrated Services Over Packet Networks	3(3-0)
5.	CSN-756	Network Transfer Protocol	3(3-0)
6.	CSN-759	Network Management	3(3-0)
7.	CSN-760	Networked Multimedia Services	3(3-0)
8.	CSN-766	Internet of Things for Industrial Applications	3(3-0)

Major/Specialization in Artificial intelligence (Any Five Courses)

1.	CAI-757	Pattern Recognition	3(3-0)
2.	CAI-758	Decision Support Systems	3(3-0)
3.	CAI-761	Machine Learning	3(3-0)
4.	CAI-762	Neural Networks	3(3-0)
5.	CAI-764	Computer Vision	3(3-0)

6.	CAI-765	Data Mining	3(3-0)
7.	CAI-767	Advanced Topics in Artificial Intelligence	3(3-0)
8.	CAI-769	Multimedia Databases	3(3-0)
9.	CAI-770	Advanced Computer Graphics	3(3-0)
10.	CAI-775	Advanced Data Mining	3(3-0)