

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

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	CS305M    Software Engineering    (3-1-0)4
<b>Project (MP)</b>	
CS402    Major Project    (0-0-9)6	
<b>Mandatory Learning Courses (MLC)</b>	
UC100    Introduction to Design Thinking    (2-0-0)2	
CV110    Environmental Sciences    (1-0-0)1	
SM111    Professional Ethics & Human Values    (1-0-0)1	
CS398    Seminar    1	
CS399    Practical Training    1	
UC401    Liberal Arts – Category A, B, C    10	
	<b>Department specific course for Interdisciplinary Machine Learning Minor</b>
	CS367M    Foundations of CPS    (3-1-0) 4
	CS426M    Reinforcement Learning    (3-1-0) 4
	CS473M    Project for ML Minors    (0-0-6) 4
<b>Honors Courses (Hn)</b>	
CS701    High Performance Computing    (3-0-2)4	
CS750    Distributed Data Management    (3-0-2)4	
CS751    Network Engineering    (3-0-2)4	
CS850    Database Security    (3-0-2)4	
CS851    Network Security    (3-0-2)4	
<b>Focus Area Courses (FAC)</b>	
<b>Courses for Focus Area in Artificial Intelligence and Machine Learning</b>	
CS312M    Machine Learning    (3-0-2)4	
CS320M    Artificial Intelligence    (3-1-0)4	
CS422M    Deep Learning    (3-1-0)4	
CS423M    Computer Vision    (3-1-0)4	
CS490M    Project in AI/ML    (0-0-6)4	
<b>Courses for Focus Area in Distributed and Cloud Computing</b>	
CS362M    Distributed Computing    (3-1-0)4	
CS363M    Cloud Computing    (3-1-0)4	
CS428M    Cloud Networking    (3-1-0)4	
CS430M    Next Generation Multi-Cloud Architecture    (3-0-2)4	
CS491M    Project for Distributed & Cloud Computing    (0-0-6)4	
<b>Courses for Focus Area in Cyber-Physical Systems</b>	
CS367M    Foundations of Cyber-Physical Systems    (3-1-0)4	
CS412M    Cyber-Physical Systems Verification    (3-1-0)4	
CS460M    Cyber-Physical Systems and Applications    (3-1-0)4	
CS461M    Trustworthy Cyber-Physical Systems    (3-1-0)4	
CS492M    Project for Cyber-Physical Systems    (0-0-6)4	
<b>Courses for Focus Area in Networking</b>	
CS359M    Advanced Computer Networks    (3-1-0)4	
CS433M    Wireless Networks    (3-1-0)4	
CS435M    Open Source Networking Technologies    (3-1-0)4	
CS469M    Software Based Networks    (3-1-0)4	
CS493M    Project for Networking    (0-0-6)4	
<b>Courses for Focus Area in Security</b>	
CS311M    Cryptography and Applications    (3-1-0)4	
CS418M    Topics in Information Security    (3-1-0)4	
CS427M    Cloud Security    (3-1-0)4	
CS463M    Network Security    (3-1-0)4	
CS470M    Database Security    (3-1-0)4	
<b>Minor Courses (Mn) (Except for IT Students)</b>	
CS202M    Data Structures and Algorithms    (3-1-0)4	
CS251M    Database Systems    (3-1-0)4	
CS252M    Operating Systems    (3-1-0)4	
CS301M    Computer Networks    (3-1-0)4	