

**M.Sc COMPUTER SCIENCE with specialization in SOFT COMPUTING
COURSE STRUCTURE (2016 ADMISSION)**

Semester I

Course Code	Paper	Marks		Credit
		Sessional	Final	
CAM 2101	Mathematical Foundations for Computer Science	50	50	3
CAM 2102	Principles of Programming Languages	50	50	4
CAM 2103	Advanced Data Structures and Algorithms	50	50	3
CAM 2104	Programming in Python	50	50	3
CAM 2105	Artificial Intelligence	50	50	3
CAM 2106	Data Structures and Programming Language LAB	50	50	2
Total				18

Semester II

Course Code	Paper	Marks		Credit
		Sessional	Final	
CAM 2201	Advanced Networks and Data Communication	50	50	4
CAM 2202	Advanced Operating System	50	50	4
CAM 2203	Intelligent Systems	50	50	3
	Elective	50	50	3
	Elective	50	50	3
CAM 2206	Networking LAB	50	50	2
Total				19

Semester III

Course Code	Paper	Marks		Credit
		Sessional	Final	
CAM 2301	Machine Learning	50	50	3
CAM 2302	Data Mining #	50	50	3
	Elective	50	50	3
	Elective	50	50	3
	Elective	50	50	3
CAM 2306	Seminar	50	50	2
Total				17

Semester IV

Course Code	Paper	Marks		Credit
		Sessional	Final	
CAM 2401	Internship/Project Work	200	200	18
Total				18

Syllabus to be approved

Note: Students are expected to do at least 20 programs covering all the units of the prescribed syllabi of the concerned subjects. During the examination one or two programs are expected to be asked from the above topics which can be completed in three hours of time.

LIST OF ELECTIVES (M.Sc Computer Science)
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<p>Second Semester</p> <p>CAM 2211 Wireless Networks #</p> <p>CAM 2212 Distributed Computing</p> <p>CAM 2213 Grid and Cloud Computing #</p> <p>CAM 2214 Web Technology and Web Programming #</p> <p>CAM 2215 Knowledge based Systems #</p> <p>Third Semester</p> <p>CAM 2311 Cryptography and Network Security</p> <p>CAM 2312 Artificial Neural Networks #</p>	<p>CAM 2314 Android Application Programming</p> <p>CAM 2315 Agents Oriented Software Engineering #</p> <p>CAM 2316 Information Retrieval Systems #</p> <p>CAM 2317 Digital Speech Processing #</p> <p>CAM 2318 Pattern Recognition Systems #</p> <p>CAM 2319 Operations Research</p> <p>CAM 2320 Research Methodology #</p> <p>CAM 2321 Digital Signal Processing</p> <p>CAM 2322 Natural Language Processing</p>
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