

Degree Plan for M.Sc. in Computer Sciences

<u>Total No. of Credits for this degree plan = 30</u>			
Course code	Course Title	No. of Credits	Prerequisites
<u>Department Requirements = 9 Credits</u>			
COMP601	Advanced Algorithm Design and Analysis	3	
COMP602	Theory of Computation	3	
COMP603/L	Computer Simulation and Modeling	3	
<u>Thesis Requirements = 6 Credits</u>			
COMP699	Master Thesis	6	after 18 Credits
<u>Electives = 15 Credits</u>			
<u>NOTE: Students can choose any FIVE of the following courses but at least THREE must belong to the same track</u>			
Track 1— Data Science			
COMP611/L	Data Mining and Warehousing	3	COMP601
COMP 612/L	Data Science Essentials	3	
COMP613/L	Advanced Database Systems	3	
COMP 614/L	Big Data Fundamentals	3	
COMP619	Emerging Trends in Data Science	3	COMP612
Track 2 — Networks			
COMP621/L	Advanced Computer Networks	3	
COMP622/L	Wireless Networks	3	COMP621
COMP623	Grids and Clouds	3	COMP621
COMP624	Cryptography and Network Security	3	
COMP629	Emerging Trends in Networking	3	COMP621
Track 3 — Multimedia Processing			
COMP631/L	Advanced Digital Image Processing	3	
COMP632	Multimedia Security	3	COMP631
COMP633/L	Computer Vision and Pattern Recognition	3	COMP631
COMP634/L	Soft Computing	3	COMP601
COMP639	Emerging Trends in Multimedia Processing	3	
Track 4 — Software Engineering			
COMP641	Advanced Software Engineering	3	
COMP642	Software Testing and Maintenance	3	COMP641
COMP643	Software Project Management	3	COMP641
COMP644	Software Metrics	3	COMP641
COMP649	Emerging Trends in Software Engineering	3	COMP641
Following is an additional elective independent of tracks and open to all			
COMP698	Recent advances in Computer Science	3	Section Approval