

Master of Computer Applications
VIT Online Learning Institute (VITOL)

Programme Credit Structure				Credits		Cyber Security					
Discipline Core Courses				40		OLMCA610	Blockchain Technologies	3	1	0	4
Discipline Elective Courses				28		OLMCA609	Cyber Forensics	3	1	0	4
Project				12		OLMCA621	Cryptography and Network Security	3	1	0	4
Total Graded Credit Requirement				80		OLMCA622	Information Security	3	1	0	4
Non-Graded Credit Requirement (Bridge Course)				02		OLMCA623	Penetration Testing	3	1	0	4
Discipline Core Courses				40		OLMCA624	Malware Analysis	3	1	0	4
OLMCA501	Discrete Mathematical Structures	3	1	0	4	OLMCA625	Web Security	3	1	0	4
OLMCA502	Python Programming	3	1	0	4	Non-Graded Credit Requirement (Bridge Course)				02	
OLMCA503	Data Structures and Algorithms	3	1	0	4						
OLMCA504	Operating Systems	3	1	0	4						
OLMCA505	Database Systems	3	1	0	4	OLMCA500	Foundations of Mathematics	2	0	0	2
OLMCA506	Statistics For Data Science	3	1	0	4						
OLMCA507	Computer Networks	3	1	0	4						
OLMCA508	Software Engineering	3	1	0	4	Note: Students those who want to specialize in Artificial Intelligence and Machine Learning / Cyber Security, they have to earn minimum of 20 credits from the respective Discipline Elective basket.					
OLMCA509	Programming In Java	3	1	0	4						
OLMCA509	Computer Organization	3	1	0	4						
OLMCA699	Project	0	0	0	12						
Discipline Elective Courses				28							
General											
OLMCA604	Software Quality Assurance and Reliability	3	1	0	4						
OLMCA605	Virtual And Augmented Reality	3	1	0	4						
OLMCA608	Mobile Application Development	3	1	0	4						
OLMCA611	Data Mining Techniques	3	1	0	4						
OLMCA603	Cyber Security	3	1	0	4						
OLMCA613	Computer Vision	3	1	0	4						
OLMCA614	Full Stack Web Development	3	1	0	4						
OLMCA615	Software Project Management	3	1	0	4						
Artificial Intelligence and Machine Learning											
OLMCA601	Artificial Intelligence	3	1	0	4						
OLMCA606	Big Data Analytics	3	1	0	4						
OLMCA602	Machine Learning	3	1	0	4						
OLMCA616	Exploratory Data Analysis	3	1	0	4						
OLMCA617	Foundations of Deep Learning	3	1	0	4						
OLMCA618	Data Visualization	3	1	0	4						
OLMCA619	Natural Language Processing	3	1	0	4						
OLMCA620	Web and Social Media Analytics	3	1	0	4						