TECNIA INSTITUTE OF ADVANCED STUDIES

NAAC Grade "A" Institute

Department of Information Communication and Technology (ICT)

Master's of Computer Application (MCA)

GGSIPU w. e. f. as on 2020-21 Onwards

Course per-semester

FIRST SEMESTER

Code No.	Paper	Course	L	T/P	Credits
MCA-101	Discrete Structures	Core Course Theory	3	1	4
MCA-103	Computer Networks	Core Course Theory	3	0	3
MCA-105	Operating Systems with Linux	Core Course Theory	3	1	4
MCA-107	Database Management Systems	Core Course Theory	3	1	4
MCA-109	Object Oriented Programming and JAVA	Core Course Theory	3	1	4
MCA-161	Computer Networks Lab.	Core Course Practical	0	2	1
MCA-163	Operating Systems with Linux Lab.	Core Course Practical	0	2	1
MCA-165	Database Management Systems Lab.	Core Course Practical	0	2	1
MCA-169	Minor Project – I	Minor Project	0	6	3
MCA-171	Professional Proficiency – I	NUES*	0	2	1

SECOND SEMESTER

Code No.	Paper	Course	L	T/P	Credits
MCA-102	Data and File Structures	Core Course Theory	3	1	4
MCA-104	Object Oriented Software Engineering	Core Course Theory	3	1	4
MCA-106	Python Programming	Core Course Theory	3	1	4
MCA-110	Data Warehousing and Data Mining	Core Electives	3	1	4
MCA-132	Management Principles and Organizational Behavior	Open Electives	3	1	4
MCA-162	Data and File Structures Lab.	Core Course Practical	0	2	1
MCA-164	Object Oriented Software Engineering Lab.	Core Course Practical	0	2	1
MCA-166	Python Programming Lab.	Core Course Practical	0	2	1
MCA-168	Lab. based on Core Elective - I	Core Course Practical	0	2	1
MCA-170	Minor Project – II	Minor Project	0	6	3
MCA-172	Environment Science (NUES)	NUES*	3	0	3

THIRD SEMESTER

Code No.	Paper	Course Type	L	T/P	Credits
MCA-201	Design and Analysis of Algorithms	Core Course Theory	3	1	4
MCA-203	Artificial Intelligence and Machine Learning	Core Course Theory	3	1	4
MCA-205	Statistics and Data Analytics	Open Electives	3	1	4
MCA-237	Soft Computing	Open Electives	3	1	4
MCA-261	Design and Analysis of Algorithms Lab.	Open Electives	0	2	1
MCA-263	Artificial Intelligence and Machine Learning Lab	Core Course Practical	0	2	1
MCA-265	Lab. based on Core Elective - II	Core Course Practical	0	2	1
MCA-267	Lab. based on Core Elective - III	Core Course Practical	0	2	1
MCA-269	Minor Project – III	Minor Project	0	6	3
MCA-271	Entrepreneurship Mindset	NUES*	3	0	3

Effective from the Academic Year 2020-2021 onwards

FOURTH SEMESTER

Code No.	Paper	Course Type	L	T/P	Credits
MCA-202	Dissertation (Major Project)	Major Project	-	-	20
MCA - 274	Professional Proficiency – IV (Seminar and Progress Report)	NUES	-	-	4

Effective from the Academic Year 2020-2021 onwards