

**TECNIA INSTITUTE OF ADVANCED STUDIES**

GRADE "A" INSTITUTE

Approved by AICTE, Ministry of Education, Govt. of India, Affiliated to G.G.S.I.P. University
Recognized Under Sec. 2(f) of UGC Act 1956.**INSTITUTIONAL AREA MADHUBAN CHOWK, ROHINI, DELHI 110085**Tel: 91-11-27555121-24, E-Mail : directortias@tecnia.in, Website: www.tiaspg.tecnia.in

Ref.No.: TIAS/DICT/MCA/2023-24/158

Date: 06/07/2023

*Department of Information, Communication & Technology**Master of Computer Application*

List of Courses

S. No	Sem	Code No.	Paper	Type of Course	L	TIP	Credits
1	1	MCA 101	Discrete Structures	Core	3	1	4
2	1	MCA 103	Computer Networks	Core	3	1	4
3	1	MCA 105	Operating Systems with Linux	Core	3	1	4
4	1	MCA107	Database Management Systems	Core	3	1	4
5	1	MCA 109	Object Oriented Programming and JAVA	Core	3	1	4
6	1	MCA161	Computer Networks Lab	Practical & Project	0	2	1
7	1	MCA163	Operating Systems with Linux Lab.	Practical & Project	0	2	1
8	1	MCA165	Database Management Systems Lab.	Practical & Project	0	2	1
9	1	MCA167	Object Oriented Programming and JAVA Lab.	Practical & Project	0	2	1
10	2	MCA 169	Minor Project – I	Practical & Project	0	6	3
11	2	MCA 171	Professional Proficiency – I	NUES	0	2	1


13	2	MCA104	Object Oriented Software Engineering	Core	3	1	4
14	2	MCA106	Python Programming	Core	3	1	4
15	2	MCA108	Advanced Database Management Systems	Core Elective	3	1	4
16	2	MCA110	Data Warehousing and Data Mining	Core Elective	-	-	-
17	2	MCA112	Mobile Application Design and Development	Core Elective	-	-	-
18	2	MCA114	Full Stack Development	Core Elective	-	-	-
19	3	MCA116	Web Technologies	Core Elective	-	-	-
20	3	MCA118	Theory of Computations	Core Elective	-	-	-
21	3	MCA120	Software Testing	Core Elective	-	-	-
22	3	MCA122	Microprocessors	Core Elective	-	-	-
23	3	MCA124	Embedded System	Core Elective	-	-	-
24	3	MCA126	Information Security	Core Elective	-	-	-
25	3	MCA128	Digital Marketing	Open Elective	3	1	4
26	3	MCA130	Management Information System	Open Elective	-	-	-
27	3	MCA132	Management Principles and	Open Elective	-	-	-

28	3	MCA 134	Organizational Behaviour	Open Elective	-	-	-
29	3	MCA162	Data and File Structures Lab.	Practical & Project	0	2	1
30	3	MCA164	Object Oriented Software Engineering Lab.	Practical & Project	0	2	1
31	3	MCA166	Python Programming Lab.	Practical & Project	0	2	1
32	3	MCA168	Lab. based on Core Elective - I	Practical & Project	0	2	1
33	3	MCA170	Minor Project – II	Practical & Project	0	6	3
34	3	MCA172	Environment Science (NUES)	NUES*	3	0	3
35	3	MCA174	Professional Proficiency – II	NUES*	0	2	1
36	3	MCA201	Design and Analysis of Algorithms	Core	3	1	4
37	3	MCA203	Artificial Intelligence and Machine Learning	Core	3	1	4
38	3	MCA205	Statistics and Data Analytics	Core Elective	3	1	4
39	3	MCA207	Enterprise Computing with JAVA	Core Elective	-	-	-
40	3	MCA209	Natural Language Processing	Core Elective	-	-	-
41	3	MCA211	Computer Graphics	Core Elective	-	-	-
42	3	MCA213	Wireless Sensor Networks	Core Elective	-	-	-

43	3	MCA215	Software Project Management	Core Elective	-	-	-
44	3	MCA217	Advanced Computer Architecture	Core Elective	-	-	-
45	3	MCA219	Distributed Systems	Core Elective	-	-	-
46	3	MCA221	Applied Cryptography	Core Elective	-	-	-
47	3	MCA223	Cloud Computing	Core Elective	-	-	-
48	3	MCA225	e-Business Systems	Core Elective	-	-	-
49	3	MCA227	Web Intelligence and Big Data	Core Elective	3	1	4
50	3	MCA229	Flutter and Dart	Core Elective	-	-	-
51	3	MCA231	Service Oriented Architecture	Core Elective	-	-	-
52	4	MCA233	Multimedia Technologies	Core Elective	-	-	-
53	4	MCA235	Internet of Things	Core Elective	-	-	-
54	4	MCA237	Soft Computing	Core Elective	-	-	-
55	4	MCA239	Software Quality Management	Core Elective	-	-	-
56	4	MCA241	Digital Image Processing	Core Elective	-	-	-
57	4	MCA243	Compiler Design	Core Elective	-	-	-

58	4	MCA245	Parallel Computing	Core Elective	-	-	-
59	4	MCA247	Numerical and Scientific Computing	Core Elective	-	-	-
60	4	MCA249	Research Methodology	Open Elective	3	1	4
61	4	MCA251	Operational Research	Open Elective	-	-	-
62	4	MCA253	Cyber Security and Cyber Laws	Open Elective	-	-	-
63	4	MCA255	e-Content Development	Open Elective	-	-	-
64	4	MCA261	Design and Analysis of Algorithms Lab.	Practical & Project	0	2	1
65	4	MCA263	Artificial Intelligence and Machine Learning Lab.	Practical & Project	0	2	1
66	4	MCA265	Lab. based on Core Elective - II	Practical & Project	0	2	1
67	4	MCA267	Lab. based on Core Elective - III	Practical & Project	0	2	1
68	4	MCA269	Minor Project – III	Practical & Project	0	6	3
69	4	MCA271	Entrepreneurship Mindset (NUES)	NUES	3	0	3
70	4	MCA273	Professional Proficiency – III	NUES	0	2	1
71	4	MCA202	Dissertation (Major Project)	Core	-	-	20
72	4	MCA272	One MOOC Course (from SWAYAM Platform)	NUES	-	-	2

73	4	MCA274	Professional Proficiency - IV	NUES	-	-	4
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Head of the Department
Department of Information, Communication & Technology

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