Name of the Faculty : FACULTY OF ENGINEERING & TECHNOLOGY **Date of SOE Submission: 15/04/2023**

Name of the Program (As to be printed on the Degree Certificate) : Master of Computer Applications

Session: 2022-23 onwards

S. No.	Semester/Year/Prof	Council Code (If any)	Subject Code (If already existing)	Nomenclature	Theory/ Practical/	Core/ DSE/ AECC/ SEC/ VAC/ GE/ MDGE/Subsidary	Theory/Practical (Result Combined or Separate)	L	T	P	Credits	Theory External Max	Theory External Pass	Theory (Internal) Attendance Marks	Theory (Internal) Mid Term Weightage	Theory (Internal) Assignment	Theory (Internal) Professional Activities	Theory (Internal) Max	Theory (Internal) Pass	Practical External Demonstration/Presentation	Practical External Viva-voce	Practical External Max	Practical External Pass	Practical (Internal) Attendance	Practical (Internal) Mid Term	Practical (Internal) Project/Lab Work	Practical (Internal) Conduct/Demonstration	Practical (Internal) Max	Practical (Internal) Pass	Overall Pass Marks	End Term Examination Overall Passing Criteria: Theory: [External+Internal] or Practical: [External+Internal]	If Combined: Theory+ Practical
1	I/I	-	13470119	Python Programming	Theory	Core	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
2		-	13470120	Web Design And Development	Theory	Core	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
3		-	13470103	Database Technology	Theory	Core	Separate	3	1	0	4	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
4		-	13470121	Computer Networking	Theory	Core	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
5		-	13470122	Soft Skills	Theory	Core	Separate	2	0	0	2	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
6		-	13470123	Python Programming Lab	Practical	Core	Separate	0	0	4	2	-	-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	External+Internal	
7		-	13470124	Web Design And Development Lab	Practical	Core	Separate	0	0	2	1	-	-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	External+Internal	
8		-	13470113	Database Technology Lab	Practical	Core	Separate	0	0	4	2	-	-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	External+Internal	
9		-	13470125	System and Network Administration Lab	Practical	Core	Separate	0	0	2	1	-	-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	External+Internal	
				Total Credits of the Semester				**14**	**1**	**12**	**21**																					
				Semester II																												
10	II/I	-	13470205	Data Structures	Theory	Core	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
11		-	13470209	Object Oriented Programming using Java	Theory	Core	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
12		-	13470218	Principles of Management	Theory	Core	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
13		-	13470208	Data Structures Lab	Practical	Core	Separate	0	0	4	2	-	-		-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	External+Internal	
14			13470219	Object Oriented Programming using Java Lab	Practical	Core	Separate	0	0	2	1	-	-		-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	External+Internal	
				Choose one of the following(Theory)																												
15		-	13470210	AI and Machine Learning	Theory	DSE-I	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
16		-	13470211	Blockchains			Separate													-	-	-	-	-	-	-	-	-	-		External+Internal	
17		-	13470212	Steganography and Digital Watermarking			Separate													-	-	-	-	-	-	-	-	-	-		External+Internal	
18		-	13470213	Internet of Things			Separate													-	-	-	-	-	-	-	-	-	-		External+Internal	
				Choose one of the following (Theory+ Corresponding Practical)																												
19		-	13470214	Data Analytics	Theory	DSE-II	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
20		-	13470215	Smart Contract and Solidity			Separate													-	-	-	-	-	-	-	-	-	-		External+Internal	
21		-	13470216	Data Encryption and Compression			Separate													-	-	-	-	-	-	-	-	-	-		External+Internal	
22		-	13470217	IoT with Arduino, ESP and Raspberry pi			Separate													-	-	-	-	-	-	-	-	-	-		External+Internal	
23		-	13470220	Data Analytics Lab	Practical		Separate	0	0	4	2	-	-		-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	External+Internal	
24		-	13470221	Smart Contract and Solidity Lab			Separate																								External+Internal	
25		-	13470222	Data Encryption and Compression Lab			Separate																								External+Internal	
26		-	13470223	IoT with Arduino, ESP and Raspberry pi Lab			Separate																								External+Internal	
				Total Credits for the Semester				**15**	**0**	**10**	**20**																					
				Semester -III																												
27		-	13470316	DevOps	Theory	Core	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
28		-	13470329	DevOps Lab	Practical	Core	Separate	0	0	2	1	-	-		-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	External+Internal	
29		-	13470334	Summer Internship	Practical	Core	Separate	0	0	0	3	-	-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	External+Internal	
				Choose one of the following (Theory)																												
30		-	13470317	Applications of AI	Theory	DSE-III	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
31		-	13470318	Blockchain Security and Performance			Separate																								External+Internal	
32		-	13470319	Security Assessment and Risk Analysis			Separate																								External+Internal	
33		-	13470320	Web Data Mining			Separate																								External+Internal	
				Choose one of the following (Theory+ Corresponding Practical)																												
34		-	13470321	Deep Learning and Neural Networks	Theory		Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
35		-	13470322	Blockchain Platforms and Use Cases			Separate													-	-	-	-	-	-	-	-	-	-		External+Internal	

36	III/II	-	13470323	Database Security and Access Control	Theory	DSE-IV	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
37		-	13470324	Analysing, Visualizing and Applying Data Science with Python			Separate													-	-	-	-	-	-	-	-	-	-		External+Internal	
38		-	13470330	Deep Learning and Neural Networks Lab	Practical		Separate			4	2	-	-	-	-	-	-	-	-	20	20	40	16	10	10	10	30	60	24	40	External+Internal	
39		-	13470331	Blockchain Platforms and Use Cases Lab			Separate						-	-	-	-	-	-	-												External+Internal	
40		-	13470332	Database Security and Access Control Lab			Separate						-	-	-	-	-	-	-												External+Internal	
41		-	13470333	Analysing, Visualizing and Applying Data Science with Python Lab			Separate						-	-	-	-	-	-	-												External+Internal	
				Choose one of the following(Theory)																												
42		-	13470325	Economic Analysis for Business	Theory	GE	Separate	3	0	0	3	60	24		20	10	10	40	16	-	-	-	-	-	-	-	-	-	-	40	External+Internal	
43		-	13470326	Accounting and Financial Management			Separate													-	-	-	-	-	-	-	-	-	-	40	External+Internal	
44		-	13470327	People's Behaviour in an Organization			Separate													-	-	-	-	-	-	-	-	-	-	40	External+Internal	
45		-	13470328	Business Analytics			Separate													-	-	-	-	-	-	-	-	-	-	40	External+Internal	
				Total Credits for the Semester				**12**	**0**	**6**	**18**																					
Semester -IV																																
46	IV/II	-	13470413	Industrial Internship	Practical	Core	Separate	0	0	0	16	-	-	-	-	-	-	-	-	60	40	100	40	10	20	20	50	100	40	80	External+Internal	
				Total Credits for the Semester				**0**	**0**	**0**	**16**																					
TOTAL CREDITS REQUIRED FOR DEGREE : 75																																
				Important Related Information																												
				Total credits required for the degree	**75**																											
				Is there provision for Internal Marks Revision	Yes	As per University Policy																										
				Number of chances for reappear	As per University ordinance																											
				Promotion Criteria	To be provided																											