

Programme Matrix: Master of Computer Applications [2020 Batch]

I Semester													
Course Type	Programme Major Code			Course Title	Total Hours	Hrs./ Week	Course Components			Total Credits	Max Marks		
	PC	Y	Course Code				L	T	P		CIE	ESE	Total
DSCC	04CS04	20	MCC204B11	Object Oriented Programming with Java	60	4	3	1	-	4	30	70	100
DSCC	04CS04	20	MCC204B12	Software Engineering	60	4	3	1	-	4	30	70	100
DSCC	04CS04	20	MCA204B13	Mathematical Foundations for Computer Science	60	4	3	1	-	4	30	70	100
DSCC	04CS04	20	MCC204B14	Advanced Database Management System	60	4	3	1	-	4	30	70	100
DSCC	04CS04	20	MCC204B15	Data Structures and Algorithms	60	4	3	1	-	4	30	70	100
DSCL	04CS04	20	MCC2L2B11	Java Programming Practical	60	4	-	-	2	2	15	35	50
DSCL	04CS04	20	MCC2L2B12	Data Structures and Algorithms Practical	60	4	-	-	2	2	15	35	50
SEC	04CS04	20	MCC4L2B11	Soft Skills	60	4	-	-	2	2	15	35	50
NCCC	04CS04	18	MTC5S1A01	Technical Community Presentations	-	-	-	-	-	1	-	-	-
Total						32				27	195	455	650



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II Semester														
Course Type		Programme Major Code			Course Title	Total Hours	Hrs./ Week	Course Components			Total Credits	Max Marks		
		PC	Y	Course Code				L	T	P		CIE	ESE	Total
DSCC		04CS04	20	MCC204B21	Machine Learning	60	4	3	1	-	4	30	70	100
DSCC		04CS04	20	MCC204B22	Web Technologies	60	4	3	1	-	4	30	70	100
DSCC		04CS04	20	MCA204B23	Operating Systems and Linux	60	4	3	1	-	4	30	70	100
DSCC		04CS04	20	MCA204B24	Network and Information Security	60	4	3	1	-	4	30	70	100
DSCL		04CS04	20	MCC2L2B21	Web Technologies Practical	60	4	-	-	2	2	15	35	50
DSCP		04CS04	20	MCC2P2B21	Software Engineering Mini Project	60	4	-	-	2	2	15	35	50
Elective Group [Any ONE to be opted]	DSEC	04CS04	20	MCAA04B21	Managerial Skills	60	4	3	1	-	4	30	70	100
	DSEC	04CS04	20	MCAB04B21	Theory of Computation	60	4	3	1	-	4	30	70	100
	DSEC	04CS04	20	MCCC04B21	Advanced Parallel Processing	60	4	3	1	-	4	30	70	100
	DSEC	04CS04	20	MCCD04B21	Cloud Computing	60	4	3	1	-	4	30	70	100
SEC		04CS04	20	MCC4L2B21	.NET Programming Practical	60	4	-	-	2	2	15	35	50
Any ONE to be opted	NCCC	04CS04	18	MIE5A1A01	Industry Exposure	-	-	-	-	-	1	-	-	-
	NCCC	04CS04	18	MWK5A1A01	Workshop	-	-	-	-	-	1	-	-	-
Total							32				27	195	455	650


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III Semester														
Course Type		Programme Major Code			Course Title	Total Hours	Hrs./ Week	Course Components			Total Credits	Max Marks		
		PC	Y	Course Code				L	T	P		CIE	ESE	Total
DSCC		04CS04	20	MCC204B31	Artificial Intelligence	60	4	3	1	-	4	30	70	100
DSCC		04CS04	20	MCC204B32	Data Science and Big Data Analytics	60	4	3	1	-	4	30	70	100
DSCC		04CS04	20	MCC204B33	Middleware Technologies	60	4	3	1	-	4	30	70	100
DSCL		04CS04	20	MCC2L2B31	Data Science using Python Practical	60	4	-	-	2	2	15	35	50
DSCP		04CS04	20	MCC2P2B31	Enterprise Computing Project	60	4	-	-	2	2	15	35	50
GE					As per Annexure III	60	4	3	1	-	4	30	70	100
Elective Group [Any ONE to be opted]	DSEC	04CS04	20	MCAA04B31	E-Commerce and M-Commerce	60	4	3	1	-	4	30	70	100
	DSEC	04CS04	20	MCCB04B31	Object Oriented Analysis and Design using UML	60	4	3	1	-	4	30	70	100
	DSEC	04CS04	20	MCCC04B31	Multimedia Communications	60	4	3	1	-	4	30	70	100
	DSEC	04CS04	20	MCCD04B31	Internet of Things	60	4	3	1	-	4	30	70	100
SEC		04CS04	20	MCC4L2B31	Research Methodology	60	4	-	-	2	2	15	35	50
Any ONE to be opted	NCCC	04CS04	18	MKT5S1A01	Knowledge Transfer Sessions	-	-	-	-	-	1	-	-	-
	NCCC	04CS04	18	MOL501A01	Online Course	-	-	-	-	-	1	-	-	-
Total											27	195	455	650


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IV Semester														
Course Type		Programme Major Code			Course Title	Total Hours	Hrs./ Week	Course Components			Total Credits	Max Marks		
		PC	Y	Course Code				L	T	P		CIE	ESE	Total
DSCC		04CS04	20	MCA204B41	Agile and DevOps	60	4	3	1	-	4	30	70	100
DSCP		04CS04	20	MCC2P0B41	Major Project	300	-	-	-	10	10	100	150	250
Elective Group I [Any ONE to be opted]	DSEC	04CS04	20	MCCA04B41	Open Source Technologies	60	4	3	1	-	4	30	70	100
	DSEC	04CS04	20	MCAB04B42	Software Testing Tools	60	4	3	1	-	4	30	70	100
	DSEC	04CS04	20	MCAC04B43	Blockchain Technology	60	4	3	1	-	4	30	70	100
Elective Group II [Any ONE to be opted]	DSEC	04CS04	20	MCCS04B41	NoSQL Databases	60	4	3	1	-	4	30	70	100
	DSEC	04CS04	20	MCAT04B42	Software Project Management	60	4	3	1	-	4	30	70	100
	DSEC	04CS04	20	MCCU04B43	Cyber Security and Cyber Laws	60	4	3	1	-	4	30	70	100
Any ONE to be opted	NCCC	04CS04	18	MAE501A01	Aptitude Enhancement Sessions	-	-	-	-	-	1	-	-	-
	NCCC	04CS04	18	MRP5R1A01	Research Paper Presentation/ Publication	-	-	-	-	-	1	-	-	-
Total											23	190	360	550


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