LORDS UNIVERSITY

Established by the Rajasthan State Government Legislature Act No. 29 of 2018 and Approved by UGC Under Section 2 (f) of UGC Act 1956.

Web: www.lordsuni.edu.in   Mobile: 7229809999

SCHEME AND SYLLABUS
Master of Computer Application (MCA)
2 Year (4 Semester) course

Bridge Course

S.No.	Course		Contact hrs./week			Marks				Cr
	THEORY									
	Code	Title	L	T	P	Exam Hrs.	IA	ETE	Total	
1	MCA-BC-110	Computer Fundamentals and Programming in C	3	0	0	3	30	70	100	2
	Sub Total		**3**	**0**	**0**		**30**	**70**	**100**	**2**
	PRACTICAL & SESSIONAL									
2	MCA-BC-111P	C Programming Lab	0	0	4	3	30	70	100	2
	Sub Total		**0**	**0**	**4**		**30**	**70**	**100**	**2**
	TOTAL OF Bridge Course		**3**	**0**	**4**		**60**	**140**	**200**	**4**

- For Bridge course students are required to score at least the minimum marks i.e. 40% marks both in theory and practical separately. These marks however will not be added to the final score of semester /program.
- For Bridge course, only cleared or not cleared will be mentioned in the mark sheet. No separate certificate will be issued.
- Total Duration of Completion of MCA Program will be **Four** Semester with maximum attempt of Four more semester and same applies for the Bridge course
- No Grace marks for the bridge course
  Grace marks for MCA program subjects will be given as per university examination system likewise other PG

  program/s

MCA First Year: I-Semester

| S.No. | Course | | Contact hrs./week | | | Marks | | | | Cr |
	Code	Title	L	T	P	Exam Hrs.	IA	ETE	Total	
THEORY										
1	MCA-121	Data Structures using C++	3	0	0	3	30	70	100	3
2	MCA-122	Database Management Systems	3	0	0	3	30	70	100	3
3	MCA-123	Web Development	3	0	0	3	30	70	100	3
4	MCA-124	Computer Networks	3	0	0	3	30	70	100	3
5	MCA-125	Mathematical Foundations of Computer Science	3	0	0	3	30	70	100	3
6	MCA-126	Software Project Management	3	0	0	3	30	70	100	3
Sub Total			**18**	**0**	**0**		**180**	**420**	**600**	**18**
PRACTICAL & SESSIONAL										
7	MCA-127P	Data Structures Lab using C++	0	0	4	3	30	70	100	3
8	MCA-128P	DBMS Lab	0	0	4	3	30	70	100	3
9	MCA-129P	Web Development Lab	0	0	4	3	30	70	100	3
Sub Total			**0**	**0**	**12**		**90**	**210**	**300**	**9**
TOTAL CREDITS FOR I SEMESTER			**18**	**0**	**12**		**270**	**630**	**900**	**27**

MCA First Year: II-Semester

S.No.	Code	Title	L	T	P	Exam Hrs.	IA	ETE	Total	Cr
THEORY			**Contact hrs./week**			**Marks**				**Cr**
	Course									
1	MCA-221	Python Programming	3	0	0	3	30	70	100	3
2	MCA-222	Operating Systems	3	0	0	3	30	70	100	3
3	MCA-223	Object Oriented Programming Using Java	3	0	0	3	30	70	100	3
4	MCA-224	Full Stack Development	3	0	0	3	30	70	100	3
5	MCA-225	Cloud Computing	3	0	0	3	30	70	100	3
6	MCA-226	Cyber Security and Digital Forensics	3	0	0	3	30	70	100	3
Sub Total			**18**	**0**	**0**		**180**	**420**	**600**	**18**
PRACTICAL & SESSIONAL										
7	MCA-227P	Python Programming Lab	0	0	4	3	30	70	100	3
8	MCA-228P	Object Oriented Programming Lab Using Java	0	0	4	3	30	70	100	3
9	MCA-229P	Full Stack Development Lab	0	0	4	3	30	70	100	3
Sub Total			**0**	**0**	**12**		**90**	**210**	**300**	**9**
TOTAL CREDITS FOR II SEMESTER			**18**	**0**	**12**		**270**	**630**	**900**	**27**

MCA Second Year: III-Semester

S.No.	Course		Contact hrs./week			Marks				Cr
	Code	**Title**	**L**	**T**	**P**	**Exam Hrs.**	**IA**	**ETE**	**Total**	
THEORY										
1	MCA-321	Mobile Application Development	3	0	0	3	30	70	100	3
2	MCA-322	Computer Graphics	3	0	0	3	30	70	100	3
3	MCA-323	Data Science	3	0	0	3	30	70	100	3
4	MCA-324	Elective-I	3	0	0	3	30	70	100	3
5	MCA-325	Elective-II	3	0	0	3	30	70	100	3
Sub Total			**15**	**0**	**0**		**150**	**350**	**500**	**15**
PRACTICAL & SESSIONAL										
6	MCA-326P	Mobile Application Development Lab	0	0	4	3	30	70	100	3
7	MCA-327P	Computer Graphics	0	0	4	3	30	70	100	3
8	MCA-328P	Data Science Lab Using R	0	0	4	3	30	70	100	3
9	MCA-329P	#Research Paper and Presentation	0	0	3	3	30	70	100	3
Sub Total			**0**	**0**	**15**		**120**	**280**	**400**	**12**
Total Credits for III Semester			**15**	**0**	**15**		**270**	**630**	**900**	**27**

#It is suggested to have Technical Paper Writing Course and in End Term Examination there should be a Presentation of a research paper and submit the papers with below 20% Plagiarism report.

Elective – I

Sr. No.	Course Code	Course Name
1	MCA-324A	Artificial Intelligence & Machine Learning
2	MCA-324B	Internet of Things
3	MCA-324C	Natural Language Processing
4	MCA-324D	Soft Computing

Elective - II

Sr. No.	Course Code	Course Name
1	MCA-325A	Deep Learning
2	MCA-325B	Web Intelligence and Big Data
3	MCA-325C	Software Quality Management
4	MCA-325D	Information Security

MCA Second Year: IV-Semester

Course Code	Course Title	Type of Paper	Contact Hours Per Week	Exam Hrs	Internal Assessment	End Term Exam	Total	Credits
MCA-421P	Industrial/Field Training	Practical	-	-	100	300	400	12
MCA-422P	Dissertation & Seminar	Practical	4	-	30	70	100	03
Total Credits for IV Semester							**500**	**15**
Total Credits for MCA								**100**