


Mandatory non-credit courses

Program Name: MCA
 BoS Approval date: 20-21

S.No.	Course Name	L	T	P
1	Elementary Mathematics	3	1	0
Total:		3	1	0


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Curriculum Analysis (Course Category)

Regulation: MCA 202-21

Category	L	T	P	C
AECC (Ability Enhancement Competency Course)	3	1	0	4
Skill Enhancement Elective (SEE)	3	1	0	4
General Elective Course (GSC)	6	2	0	8
Cross Cutting Course (CCC)	45	15	40	78
Discipline Specific Electives (DSE)	48	16	0	64
TOTAL	105	35	40	159


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AECC COURSES LIST

Regulation: MCA 2020-21

Course Name	L	T	P	C
MCA318 Social Network Analysis	3	1	0	4
TOTAL	3	1	0	4


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Skill Enhancement Elective (SEE) Courses List

Regulation: MCA 2020-21

Course Name	L	T	P	C
MCA315 Theory of Computation	3	1	0	4
TOTAL	3	1	0	4



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Cross Cutting Courses List

Regulation: MCA 2020-21

Course Name	L	T	P	C
MCA106 Object Oriented Programming Concepts	3	1	0	4
MCAAdvanced Computer Architecture	3	1	0	4
MCA108 Advanced Database Management Systems	3	1	0	4
MCA109 Advanced Computer Networks	3	1	0	4
MCA110 Advanced Data Structure and Algorithms	3	1	0	4
MCA153 Object Oriented Programming Concepts Lab	0	0	4	2
MCA154 Advanced Database Management Systems Lab	0	0	4	2

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MCA155 Advanced Data Structure and Algorithms Lab	0	0	4	2
MCA206 Advanced Java Programming	3	1	0	4
MCA207 Design & Analysis of Algorithms	3	1	0	4
MCA208 Advanced Operating Systems	3	1	0	4
MCA209 Advanced Software Engineering	3	1	0	4
MCA210 Web Technologies	3	1	0	4
MCA253 Java Programming Lab	0	0	4	2
MCA254 Web Technologies Lab	0	0	4	2
MCA306 .NET Framework using C#	3	1	0	4
MCA307 Advanced Data Mining Techniques	3	1	0	4
MCA308 Cryptography and Cyber Security	3	1	0	4

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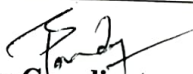
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MCA319 .NET Framework using C # Lab	0	0	4	2
MCA355 Mini Project	0	0	4	2
MCA404 Machine Learning with Python	3	1	0	4
MCA405 Cloud Computing and Virtualization	3	1	0	4
MCA453 Machine Learning with Python Lab	0	0	4	2
MCA454 Major Project	0	0	4	2
TOTAL	45	15	40	78


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Discipline Specific Elective

Regulation: MCA 2020-21

Course Name	L	T	P	C
MCA311 PHP	3	1	0	4
MCA312 Search Engine Optimization	3	1	0	4
MCA313 Oracle	3	1	0	4
MCA314 Digital Marketing	3	1	0	4
MCA316 Distributed DBMS	3	1	0	4
MCA317 Data Compression	3	1	0	4
MCA406 Internet of Things	3	1	0	4
MCA407 MATLAB	3	1	0	4
MCA408 Digital Image Processing	3	1	0	4
MCA409 Block Chain Technology	3	1	0	4
MCA410 Artificial Intelligence	3	1	0	4
MCA415 Big Data Analysis	3	1	0	4
MCA416 Compiler Design	3	1	0	4
MCA417 Advanced Soft Computing	3	1	0	4
MCA418 Software Quality Assurance & Testing	3	1	0	4
MCA419 Advanced Mobile Computing	3	1	0	4
TOTAL	48	16	0	64


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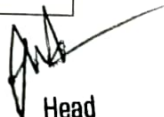
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GENERAL ELECTIVE COURSE (GSC) Courses List

Regulation: MCA 2020-21

Course Name	L	T	P	C
MCA 309 Artificial Neural Networks	3	1	0	4
MCA 310 Android Programming	3	1	0	4
TOTAL	6	2	0	8


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