

BABASAHEB BHIMRAO AMBEDKAR UNIVERSITY
DEPARTMENT OF COMPUTER SCIENCE
REVISED COURSE STRUCTURE FOR THREE YEARS
MCA (Evening)

W.E.F. 2019-20

FIRST YEAR

1st Semester

Total Semester Credit: 24

Paper Code	Paper Title	Paper Type	Credit
MCAE-101	Computer Organization and Architecture	Core	04
MCAE -102	Combinatorics and Graph Theory	Foundation- Compulsory	04
MCAE -103	Object-Oriented Programming	Core	04
MCAE -104	Principles of Management and MIS	Core	04
MCAE -105	Lab- I (Based on MCAE-103)	Core	04
	Open Elective Paper- I*	Open Elective	04

* Student shall register for this course (under CBCS) in other departments of the University

Note: Department offers course “MCAEOE-101 Computer Fundamentals and Applications” of 04 credit under CBCS for the students of other departments in the University

2nd Semester

Total Semester Credit: 24

Paper Code	Paper Title	Paper Type	Credit
MCAE -201	System Software	Core	04
MCAE -202	Computational Methods	Core	04
MCAE -203	Data Structure	Foundation- Compulsory	04
MCAE -204	Accounting and Financial Management	Core	04
MCAE -205	Lab- II (Based on MCAE-203)	Core	04
	Open Elective Paper- II*	Open Elective	04

* Student shall register for this course from other department of the University

Note: Department offers course “MCAEOE-201 Basics of Programming in C” of 04 credit under CBCS for the students of other departments in the University

SECOND YEAR

3rd Semester

Total Semester Credit: 24

Paper Code	Paper Title	Paper Type	Credit
MCAE -301	Operating System	Foundation- Compulsory	06
MCAE -302	Analysis and Design of Algorithm	Core	06
MCAE -303	Software Engineering	Core	04
MCAE -304	Web Technologies	Core	04
MCAE -305	Lab- III (Based on MCAE-302)	Core	04

4th Semester

Total Semester Credit: 24

Paper Code	Paper Title	Paper Type	Credit
MCAE -401	Database Management System	Core	06
MCAE -402	Compiler Design	Core	06
MCAE -403	Computer Networks	Core	04
MCAE -404(A) MCAE -404(B) MCAE -404(C)	Elective Paper-I Python Programming Software Project Management Modeling & Simulation	Elective	04
MCAE -405	Lab-IV (Based on MCAE-401)	Core	04

Note: Student need to undergo summer training after the semester exam till commencement of next semester for evaluation in 5th semester.

THIRD YEAR

5th Semester

Total Semester Credit: 24

Paper Code	Paper Title	Paper Type	Credit
MCAE -501	Artificial Intelligence	Core	06
MCAE -502	Computer Graphics and Animation	Core	06
MCAE -503(A) MCAE -503(B) MCAE -503(C)	Elective Paper-II Soft Computing Distributed Computing ERP	Elective	04
MCAE -504(A) MCAE -504(B) MCAE -504(C)	Elective Paper-III Neural Network Natural Language Processing Mobile Computing	Elective	04
MCAE -505	Mini Project and Presentation*	Foundation- Compulsory	04

* Presentation and demonstration of mini project based on summer training after IVth semester. It will be extended during the semester for the final presentation/ demonstration.

6th Semester

Total Semester Credit: 24

Course Code	Course Title	Paper Type	Credit
MCAE-601	Training and Project (I) Project Report	Core	14
	(II) Viva-Voce Examination		10

Grand Total of Credit:144

A) List of Electives for Semester IV (Elective-I):-

Elective I (4 Credit)

1. Python Programming
2. Software Project Management
3. Modeling & Simulation

B) List of Electives for Semester V (Elective-II & III):-

(i) Elective II (4 Credit)

1. Soft Computing
2. Distributed Computing
3. ERP

(ii) Elective III (4 Credit)

1. Neural Network
2. Natural Language Processing
3. Mobile Computing

Total Credit of all Semesters- 144

Note:

1. Students of the programme can chose any other course equal or higher credits from any other department of the university in leu of non-core and elective course under the CBCS programme. However, all of these courses are available to students of other departments under the CBCS programme
2. Credit not to be counted for paper market as **