CURRICULUM

The M.C.A. (Under Science Faculty) program will endow with a distinctive opportunity to students to acquire skills that will enable them either to pursue a Career in the Computer Science/Information Technology industry. It also builds up outlook and awareness along with essential knowledge and ability among the students to encourage them to do further academic studies / research.

It’s objective is to provide technology-oriented students with the awareness and ability to develop imaginative solutions, and better understand the effects of future developments of computer systems and technology on people and society.

It is a full time Programme of Three year and six semesters. There will be six courses for first five semesters. The last semester will be Industrial training/Institutional project.

Recognizing this, the syllabus of the course focuses on developing an ability to learn new technology, grasping the concepts and issues behind its use and the use of computers.

The basic aim of this course is to:

- Enable students to understand data structures, the ability to design algorithms.
- Enable students to get sound understanding of different Computer Architecture Concepts, Networking Concepts, Operating System concepts.
- Understand the principles and fundamentals of database management concepts, advanced databases, data mining and warehousing.
- Gain the knowledge of different programming languages.
- Understand the basic and advanced concepts of Windows programming environment.

COURSES

M.C.A. (Under Science Faculty) Programme is designed keeping in view the credits prescribed and recognized by the Savitribai Phule Pune University.

M.C.A. (Under Science Faculty) is of 150 credits. Every student has to complete at least 75% credits (other than for IT – Sem VI) from M.C.A. (Under Science Faculty) syllabus. The remaining 25% credits (other than for IT–Sem VI) can be chosen from the courses offered by the other Departments/subjects (other than Computer science courses) with the credit system structure.

PRESCRIBED COURSE (150 credits)

Semester – I ((Minimum Credit : 25)
(Core) CA-101 Programming with C, (Core) CA-102 DBMS, (Core) CA-103 Mathematical Foundation, (Core) CA-104 Concrete Mathematics Graph Theory, (Core) CA-105 Computer Organization, (Core) CA-106 Lab on CA-101 & CA-102.

Semester – II (Minimum Credit : 25)
(Core) CA-201 Data Structures, (Core) CA-202 TCS, (Core) CA-203 OOP-C++, (Core) CA-204 Computer Networks, (Core) CA-205 ADBMS, (Core) CA-206 Lab on CA-201, CA-203 & CA-205.

Semester – III (Minimum Credit : 25 Maximum Credit : 29)
(Core) CA-301 DAA, (Core) CA-302 Operating System, (Core) CA-303 Software Engineering, (Core) CA-304 Java, (Core) CA-305 Lab on CA-302 & CA-304, (Elective) CA-306 Project,

Semester – IV (Minimum credit : 25
Maximum Credit : 33)
(Core) CA-401 Computer Graphics, (Core) CA-402 SDK, (Core) CA-403 Advance Java, (Core) CA-404 Object Oriented Software Engineering, (Core CA-405 Lab on CA-401, CA-402 & CA-403, (Elective) CA-406 Project, (Elective) CA-407 Cyber law, (Elective) CA-408 Soft Computing, (Elective) CA-409 Artificial Intelligence.

Semester – V (Minimum credit : 25
Maximum Credit : 33)
(Core) CA-501 Internet Programming, (Core) CA-502 Principles of Programming Languages, (Core) CA-503 Data Mining & Warehousing, (Core) CA-504 Software Project Management, (Core) CA-505 Lab on CA-501 & CA-502, (Elective) CA-506 Project, (Elective) CA-507 Image Processing, (Elective) CA-508 E-Commerce, (Elective) CA-509 Mobile Computing.

Semester – VI

ADDITIONAL COMPULSORY COURSE (10 credits)
Introduction to Cyber Security/ Information Security. (4 credits)
Human Rights (2 Credits)
Skill Development (4 Credits)

PLACEMENT
FC Placements is the assured entry for M.C.A. students to the world of Software Industry. As a part of pre-placement activity, our students undergo meticulous procedure to increase their skills to the fullest before they are presented to the industry. This is an additional activity spaced out from the regular college schedule.

This includes
- Lecture series on latest technologies
- Project guidance by Industry expert
- Technical and aptitude test
- Group discussion
- Mock Interviews

We also well-groom our students by organizing “Personality development and communication skill programs”.

This stands by the quality of Fergussonians we deliver to the industry. This activity is a small evidence of it.

Our Recruiters
The students of M.C.A. (Under Science Faculty) have been recruited by renowned firms/corporate recruiters. Some of the prominent organizations those have participated in campus recruitment.
- Persistent Systems.
- Eaton Technologies Pvt. Ltd
- Symantec Software Solutions Pvt Ltd
- Bristlecone
- Quick Heal
- Sybase
- Quinnox
- Vibrant minds technologies

CONTACT
Mrs. Shubhangi Thakar
Coordinator
Department Of Computer Science
shubhangi.thakar@fergusson.edu
+912030866623

Mrs. Deepali Dhainje
Coordinator
M.C.A. (Under Science Faculty)
deeplali.dhainje@fergusson.edu
+912030866602

Mrs. Kalyani Gaikwad
Administrative Support
M.C.A. (Under Science Faculty)
kalyani.gaikwad@fergusson.edu
+912030866604

Mrs. Anjali Naik
Placement Coordinator
placements@fergusson.edu
+912030866613