MCAOL : Master of Computer Applications

Programme Type DEGREE

School School of Computer and Information Sciences

Duration 2 Years

Medium ENGLISH

Specialization Computer Applications

Description

The broad objective of the MCA programme is to prepare graduate students for productive careers in software industry and academia by providing an outstanding environment for teaching and research in the core and emerging areas of the discipline. The programme's thrust is on giving the students a thorough and sound background in theoretical and application-oriented courses relevant to the latest computer software development. The programme emphasizes the application of software technology to solve mathematical, computing, communications / networking and commercial problems.

This Master's Degree Programme has been designed with a semester approach in mind. The first year courses are aimed at theoretical knowledge and practical skills development in core computers science subjects. The second year is more focused on advanced courses providing conceptual framework and the project work.

Eligibility

- Passed BCA/B.Sc (Computer Science/IT)/ Bachelor Degree in Computer Science and Engineering or Equivalent Degree with at least 50% marks in the Bachelor's Degree (45% marks in case of candidates belonging to reserved category)

OR

Any Bachelor's degree of minimum 3 (three) year duration from a recognized University with at least 50% marks (45% marks in case of candidates belonging to reserved category **AND** Mathematics as one of the subjects at 10+2 level or graduation level. In addition, these students are required to register and successfully complete two bridge courses, namely, MCS-201 (Programming in C and Python) & MCS-208 (Data Structures and Algorithm) of IGNOU along with Master of Computer Applications Programme. They will be required to pay an additional fee of Rs.2000/- along with the first semester fee

Course Details

Course Code	Title of the Course	Credits
First Year		
I Semester		
MCS 211	Design and Analysis of Algorithms	4
MCS 212	Discrete Mathematics	4
MCS 213	Software Engineering	4
MCS 214	Professional Skills and Ethics	2
MCS 215	Security and Cyber Laws	2

MCSL 216	DAA and Web Design Lab	2
MCSL 217	Software Engineering Lab	2
II Semester		
MCS 218	Data Communication and Computer Networks	4
MCS 219	Object Oriented Analysis and Design	4
MCS 220	Web Technologies	4
MCS 221	Data Warehousing and Data Mining	4
MCSL 222	OOAD and Web Technologies Lab	2
MCSL 223	Computer Network and Data Mining Lab	2
Second Year		
III Semester		
MCS 224	Artificial Intelligence and Machine Learning	4
MCS 225	Accountancy and Financial Management	4
MCS 226	Data Science and Big Data	4
MCS 227	Cloud Computing and IoT	4
MCSL 228	AI and Machine Learning Lab	2
MCSL 229	Cloud and Data Science Lab	2
IV Semester		
MCS 230	Digital Image Processing and Computer Vision	4
MCS 231	Mobile Computing	4
MCSP 232	Project	12
Total Credits		**80**