Programme Details:

The programme has been divided into two semesters per year (January-June and July-December). Consequently, there will be two examinations every year – one in the month of June for the January to June Semestercourses and the other is December for the July to December semester courses. The students are at liberty to appear any of the examinations conducted by the University during the year subject to completing the minimum time frame and other formalities prescribed for the programme.

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| **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 |

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| 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** |

No. of Theory Courses -15, No. of Practical Courses -6, Project-1, Total Credits: 80

**Programme Coordinator: Prof. Sandeep Singh Rawat,** [**mca@ignou.ac.in,**](mailto:mca@ignou.ac.in) **Ph: 011- 2957 2915**

---------------------------------------------------------------------------------------------------------------------Master of Computer Applications MCA\_New SOCIS (a) (i)Passed B.C.A/B.Sc (Computer Science)/ B.Sc. (IT)/ B.E.(CSE)/ B.Tech. (CSE)/B.E. (IT)/B.Tech. (IT) or Equivalent Degree. OR (ii)\* Passed any Graduation Degree(e.g.:B.E./B.Tech./B.Sc/B.Com ./ B.A./B.Voc./etc.) preferably with Mathematics at 10+2 level or at Graduation level. (b) Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category ) in the qualifying examination. \* The students of category a (ii) are required to register and successfully complete the compulsory Bridge courses of IGNOU along with Master of Computer Applications programme as given in section 5.26 English 2 years 4 years Rs. 12,300/- per semester. (MCS-201 ,MCS-208 & BCS012 @Rs.1,000/- per course as additional fee as per the eligibility) Total=Rs. 49,200/-\*

Watch video: <https://www.youtube.com/watch?v=T1ZNABFPm7Y>