

## MCA SEMESTER-IV

Code	Subject
4101	Project
4102	Swayam based MOOC

Names of Elective-I	Names of Elective-II
Digital Image Processing	Soft Computing
Ethical hacking	GIS
IOT	Cyber Physical System
Game theory	NLP
Block Chain	Big Data Analytics



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**K. B. JOSHI INSTITUTE OF  
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(Approved by Govt. of Maharashtra, \*NAAC Accredited\*)  
(Approved by AICTE, New Delhi Affiliated to S.N.D.T. Women's University, Mumbai)

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## Master of Computer Applications (MCA)

**DTE CODE-6971**  
**Choice Code 697124150**

8767954498/9322280587

Rama Purushottam Vidya Sankul, 5<sup>th</sup> Floor, Karvenagar, Pune-52.

## ELIGIBILITY

- (i) The candidate should be an Indian National;
- (ii) Passed BCA or Bachelor Degree in Computer Science Engineering or equivalent Degree and obtained at least 50% marks in aggregate (at least 45% in case of candidates of Backward Class categories, economically weaker section and Persons with Disability category belonging to Maharashtra State); Or
- (ii) Passed B.Sc. or B.Com. or B.A. with Mathematics at 10+2 Level or at Graduation Level (with additional bridge Courses as per the norms of the concerned University) and obtained at least 50% marks in aggregate (at least 45% in case of candidates of Backward Class categories, economically weaker section and Persons with Disability category belonging to Maharashtra State); (Candidates appearing for final year of qualifying examination are also eligible to appear for CET)

## Job Opportunities

- ♦ Full stack developer
- ♦ Testing Professional
- ♦ System Analyst
- ♦ Software Application Architect
- ♦ Software Consultant
- ♦ Hardware Engineer
- ♦ Technical Writer
- ♦ Systems Developer/Engineer
- ♦ Web Designer and Developer
- ♦ Subject Matter Expert (SME)
- ♦ Entrepreneur



## SYLLABUS

### MCA SEMESTER-I

Code	Subject
1101	Mathematical Foundation of Computer science
1102	Research Methodology and IPR
1103	Advanced Data Structure
1104	Advanced Java (Contents: spring, MVC, Net Beans and Hibernate)
1105	Computer Network Programming using Linux
1201	Advanced Data Structure Lab
1202	Advanced Java lab

### MCA SEMESTER-II

Code	Subject
2101	Managerial Economics
2102	Software Architecture
2103	Artificial Intelligence
2104	Advanced Databases
2105	Elective-I
2201	Web Engineering Lab (Contents: CSS, Angular js, node js, Ph P, Mysql, etc )
2202	Software Testing and Quality Assurance Lab
2203	Mobile Computing lab
2204	Artificial Intelligence Lab
2205	Advanced Databases Lab
2206	Research paper II - Research Mini Project

### MCA SEMESTER-III

Code	Subject
3101	Cyber Security
3102	Data science and Analytics
3103	Cloud Computing
3104	Machine learning
3105	Elective-II
3201	Data science and Analytics lab (Content: Implementation using Python)
3202	Cloud computing Lab
3203	Elective-II Lab
3204	Machine learning lab
3205	Research Paper III- Presentation / Publication (Content: Technical communication for Research Paper Writing, Rubrics for evaluation)