



**Shri Vaishnav Vidyapeeth Vishwavidyalaya**  
**Shri Vaishnav Institute of Computer Applications**  
**Choice Based Credit System (CBCS) Scheme in the light of NEP-2020**  
**Name of the Program: MCA**

**SEMESTER - III (Scheme 2022-2023)**

| S. No. | COURSE CODE | COURSE NAME                                   | TEACHING SCHEME/WEEK |   |   | CREDITS | EXAMINATION SCHEME            |                     |                            |                               |                            | TOTAL MARKS |
|--------|-------------|---|----------------------|---|---|---------|-------------------------------|---------------------|----------------------------|-------------------------------|----------------------------|-------------|
|        |             |   | L                    | T | P |         | THEORY                        |                     |                            | PRACTICAL                     |                            |             |
|        |             |   |                      |   |   |         | End Sem University Exam (60%) | Two Term Exam (20%) | Teachers Assessment* (20%) | End Sem University Exam (60%) | Teachers Assessment* (40%) |             |
| 1      | MCA301      | Design Methods and Analysis of Algorithms     | 3                    | 1 | 0 | 4       | 60                            | 20                  | 20                         | --                            | --                         | 100         |
| 2      | MCA302      | Software Engineering                          | 3                    | 0 | 2 | 4       | 60                            | 20                  | 20                         | 30                            | 20                         | 150         |
| 3      |             | Elective-I                                    | 3                    | 0 | 0 | 3       | 60                            | 20                  | 20                         | 0                             | 0                          | 100         |
| 4      |             | Elective-II                                   | 3                    | 0 | 0 | 3       | 60                            | 20                  | 20                         | 0                             | 0                          | 100         |
| 5      | MCA305      | Python Programming                            | 3                    | 0 | 4 | 5       | 60                            | 20                  | 20                         | 30                            | 20                         | 150         |
| 6      | MBAI301C    | Advanced Human Values and Professional Ethics | 4                    | 0 | 0 | 4       | 60                            | 20                  | 20                         | 0                             | 0                          | 100         |
| 7      | GE          | Generic Elective                              | 3                    | 0 | 0 | 3       | 60                            | 20                  | 20                         | 0                             | 0                          | 100         |
|        |             |   | 22                   | 1 | 6 | 26      | 420                           | 140                 | 140                        | 60                            | 40                         | 800         |

**Legends: L - Lecture ; T - Tutorial/Teacher Guided Student Activity ; P - Practical ;**

\*Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

| Elective-I |                     |
|------------|---------------------|
| MCA311     | Cloud Computing     |
| MCA321     | Internet of Things  |
| MCA331     | Distributed Systems |

| Elective-II |                                       |
|-------------|---------------------------------------|
| MCA312      | Data Mining and Warehousing           |
| MCA322      | Cryptography and Information Security |
| MCA332      | Big Data Analytics                    |

**Chairperson**  
**Board of Studies**  
**Shri Vaishnav Vidyapeeth**  
**Vishwavidyalaya, Indore**

**Chairperson**  
**Faculty of Studies**  
**Shri Vaishnav Vidyapeeth**  
**Vishwavidyalaya, Indore**

**Controller of Examinations**  
**Shri Vaishnav Vidyapeeth**  
**Vishwavidyalaya, Indore**

**Joint Registrar**  
**Shri Vaishnav Vidyapeeth**  
**Vishwavidyalaya, Indore**

**Vice Chancellor**  
**Shri Vaishnav Vidyapeeth**  
**Vishwavidyalaya, Indore**