



**Shri Vaishnav Vidyapeeth Vishwavidyalaya**  
**Shri Vaishnav Institute of Computer Applications**  
**Choice Based Credit System (CBCS) Scheme in the light of NEP-2020**  
**M.C.A. (AI & ML) Batch (2026-28)**

**SEMESTER - III**

| S. No. | COURSE CODE | COURSE NAME                                   | TEACHING SCHEME / |   |   | 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                         | 0                             | 0                          | 100         |
| 2      | MCA302      | Software Engineering                          | 3                 | 0 | 0 | 3       | 60                            | 20                  | 20                         | 0                             | 0                          | 100         |
| 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      | MCA305N     | Machine Learning using Python                 | 3                 | 0 | 2 | 4       | 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      | MCA306      | Minor Project                                 | 0                 | 0 | 4 | 2       | 0                             | 0                   | 0                          | 30                            | 20                         | 50          |
| 8      | GE          | Generic Elective                              | 3                 | 0 | 0 | 3       | 60                            | 20                  | 20                         | 0                             | 0                          | 100         |
| TOTAL  |             |                                               | 15                | 0 | 6 | 23      | 360                           | 120                 | 120                        | 90                            | 110                        | 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

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Faculty of Studies  
Shri Vaishnav Vidyapeeth  
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Controller of Examinations  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore

Registrar  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore

Dean Academic  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore

Vice Chancellor  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore