



**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. | COURS<br>E<br>CODE | COURSE NAME                                      | TEACHING SCHEME /<br>WEEK |   |   | CREDITS | EXAMINATION SCHEME                         |                        |                                          |                                            |                                          | TOTAL MARKS |
|--------|--------------------|--------------------------------------------------|---------------------------|---|---|---------|--------------------------------------------|------------------------|------------------------------------------|--------------------------------------------|------------------------------------------|-------------|
|        |                    |                                                  | L                         | T | P |         | THEORY                                     |                        |                                          | PRACTICAL                                  |                                          |             |
|        |                    |                                                  |                           |   |   |         | End Sem<br>Univer<br>sity<br>Exam<br>(60%) | Two Term Exam<br>(20%) | Teacher<br>s<br>Assessm<br>ent*<br>(20%) | End<br>Sem<br>Univer<br>sity Exam<br>(60%) | Teacher<br>s<br>Assessm<br>ent*<br>(40%) |             |
| 1      | MCA301             | Design Methods and<br>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<br>Python                 | 3                         | 0 | 2 | 4       | 60                                         | 20                     | 20                                       | 30                                         | 20                                       | 150         |
| 6      | MBAI301C           | Advanced Human Values and<br>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  |                    |                                                  | 22                        | 0 | 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                    |

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Board of Studies  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore

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Shri Vaishnav Vidyapeeth  
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Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore

Dean Academic  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore

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Shri Vaishnav Vidyapeeth  
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