



## Shri Vaishnav Vidyapeeth Vishwavidyalaya

### Shri Vaishnav Institute of Information Technology

#### Choice Based Credit System (CBCS) Scheme in the light of NEP-2020

#### Master of Technology (DATA SCIENCE/BIG DATA ANALYSIS)

#### SEMESTER - II ( 2025-2027)

| Sr. No. | Subject Code | Name of Subject                              | TEACHING |   |    | 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       | MTCS201N     | Advance Computer Architecture & Organization | 3        | 0 | 0  | 3       | 60                            | 20                  | 20                         | 0                             | 0                          | 100         |  |  |
| 2       | MTCS202N     | Advance Database Management System           | 2        | 0 | 2  | 3       | 60                            | 20                  | 20                         | 30                            | 20                         | 150         |  |  |
| 3       | MTRM301      | Research Methodology in Engineering          | 3        | 1 | 0  | 4       | 60                            | 20                  | 20                         | 0                             | 0                          | 100         |  |  |
| 4       | MTCS203      | Elective III                                 | 2        | 0 | 2  | 3       | 60                            | 20                  | 20                         | 30                            | 20                         | 150         |  |  |
| 5       | MTCS204      | Elective IV                                  | 2        | 0 | 2  | 3       | 60                            | 20                  | 20                         | 30                            | 20                         | 150         |  |  |
| 6       | MTCS207      | Python for Data science Lab                  | 0        | 0 | 2  | 1       | 0                             | 0                   | 0                          | 0                             | 50                         | 50          |  |  |
| 7       | MTCS208      | Comprehensive viva                           | 0        | 0 | 2  | 1       | 0                             | 0                   | 0                          | 100                           | 0                          | 100         |  |  |
| 8       |              | Generic Elective                             |          |   |    | 3       |                               |                     |                            |                               |                            |             |  |  |
|         |              |  | 12       | 1 | 10 | 21      | 300                           | 100                 | 100                        | 190                           | 110                        | 800         |  |  |

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

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

| ELECTIVE-III |                                       | ELECTIVE-IV |                                     |
|--------------|---------------------------------------|-------------|-------------------------------------|
| MTCS2031     | Optimization Techniques for Analytics | MTCS2041    | Introduction to Statistical Methods |
| MTCS2032     | Data Management for Machine Learning  | MTCS2042    | Data Warehousing                    |
| MTCS2033     | Probabilistic Graphical Models        | MTCS2043    | Ethics for Data Science             |

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Board of Studies  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya Indore

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**Controller of Examination**  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya Indore

**Registrar**  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya Indore

**Vice Chancellor**  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya Indore