



**Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore**  
**Shri Vaishnav Institute of Science**  
**Choice Based Credit System (CBCS) Scheme in the light of NEP-2020**  
**B.Sc. with Single Major (Major - Mathematics)**  
**SEMESTER - IV (2026-29)**

| SEMESTER IV (2020-21) |             |             |                                                       |                        |   |   |         |                                                                                                              |                     |                            |                               |                            |             |
|-----------------------|-------------|-------------|-------------------------------------------------------|------------------------|---|---|---------|--------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-------------------------------|----------------------------|-------------|
| S. No.                | CATEGORY    | 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                     | Major-5     | BSMAC405    | Differential Equations II                             | 6                      | 0 | 0 | 6       | 60                                                                                                           | 20                  | 20                         | 0                             | 0                          | 100         |
| 2                     | DSE-2       | BSMAD403    | MOOCS in the area of Discrete Mathematics             | 4                      | 0 | 0 | 4       | It is advisable to earn the credits of this course from MOOCs                                                |                     |                            |                               |                            |             |
|                       |             | BSMAD404    | MOOCS in the area of Probability and Statistics       |                        |   |   |         |                                                                                                              |                     |                            |                               |                            |             |
| 3                     | Minor-4     |             | Choose any one from the list of electives given below |                        |   |   |         |                                                                                                              |                     |                            |                               |                            |             |
| 4                     | AEC-4       | PD402       | Personality Development-2                             | 2                      | 0 | 0 | 2       | 60                                                                                                           | 20                  | 20                         | 0                             | 0                          | 100         |
| 5                     | VOC / SEC-2 |             | Skill Enhancement Course -2                           | 0                      | 0 | 6 | 3       | Codes and Examination Scheme is available in the Basket of SEC for Even Semester Approved by the University. |                     |                            |                               |                            | 100         |
| 6                     | PW/Ap/CE-2  | BSMACE402   | Community Engagement-2                                | 2                      | 0 | 0 | 2       | 0                                                                                                            | 0                   | 0                          | 30                            | 20                         | 100         |
| TOTAL                 |             |             |                                                       | 14                     | 0 | 6 | 17      | 120                                                                                                          | 40                  | 40                         | 30                            | 20                         | 400         |

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.

\*\*Students are required to earn atleast 2 credits in open elective category from MOOCs for the award of degree.

| List of Electives for Minor-4 |         |          |                                                |   |   |   |   |    |    |    |    |    |     |
|-------------------------------|---------|----------|------------------------------------------------|---|---|---|---|----|----|----|----|----|-----|
| 1                             | Minor-4 | BSPHM404 | Basics of Material Science                     | 3 | 0 | 2 | 4 | 60 | 20 | 20 | 30 | 20 | 150 |
| 2                             | Minor-4 | BSCHM404 | Industrial Applications of Chemistry           | 3 | 0 | 2 | 4 | 60 | 20 | 20 | 30 | 20 | 150 |
| 3                             | Minor-4 | BSBTM404 | Introduction to Genetics and Molecular Biology | 3 | 0 | 2 | 4 | 60 | 20 | 20 | 30 | 20 | 150 |
| 4                             | Minor-4 | BCCA402  | Introduction to Artificial Intelligence        | 3 | 0 | 2 | 4 | 60 | 20 | 20 | 30 | 20 | 150 |

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

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

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

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

**Dean Academics**  
**Shri Vaishnav Vidyapeeth**  
**Vishwavidyalaya, Indore**

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