



Shri Vaishnav Vidyapeeth Vishwavidyalaya
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) Scheme in the light of NEP-2020
M.Tech. (Robotics & Automation)

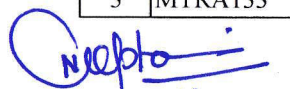
SEMESTER-I (2025-2027)

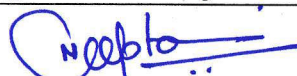
| S. No. | COURSE CODE | COURSE NAME | TEACHING SCHEME/WEEK | | | CREDITS | EXAMINATION SCHEME | | | | | TOTAL MARKS |
|--------|-------------|---|----------------------|---|----|---------|-------------------------------|---------------------|----------------------------|-------------------------------|----------------------------|-------------|
| | | | 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 | MBAI301C | Advanced Human Values and Professional Ethics | 3 | 0 | 0 | 3 | 60 | 20 | 20 | 0 | 0 | 100 |
| 2 | MTMAN101 | Advanced Mathematics | 3 | 0 | 0 | 3 | 60 | 20 | 20 | 0 | 0 | 100 |
| 3 | MTRA101 | Fundamentals of Robotics | 3 | 0 | 2 | 4 | 60 | 20 | 20 | 30 | 20 | 150 |
| 4 | MTRA102 | VFD and HMI Programming | 3 | 0 | 4 | 5 | 60 | 20 | 20 | 30 | 20 | 150 |
| 5 | - | Elective I | 3 | 0 | 0 | 3 | 60 | 20 | 20 | 0 | 0 | 100 |
| 7 | MTRA104 | PLC Lab | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 30 | 20 | 50 |
| 8 | MTRA105 | Comprehensive Viva | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 30 | 20 | 50 |
| TOTAL | | | 12 | 0 | 10 | 21 | 300 | 100 | 100 | 120 | 80 | 700 |


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 I | | |
|------------|-------------|-----------------------------------|
| S. No. | Course Code | Course Name |
| 1 | MTES113 | Cryptography and Network Security |
| 2 | MTRA123 | Industrial Process Automation |
| 3 | MTRA133 | Digital Manufacturing |


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


Registrar
 Shri Vaishnav Vidyapeeth
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Vice Chancellor
 Shri Vaishnav Vidyapeeth
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