



# Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Think Excellence. Live Excellence.

## Department of Mechanical Engineering

(Running Mechanical & Automobile Engineering Programs)

Choice Based Credit System (CBCS) Scheme

B Tech. in Automobile Engineering

Year- 4th

Semester- 7th

| S. No. | Subject Code | Name of Subject                      | Course Code | Teaching Scheme / week |   |    | Examination Scheme      |               |                     |                         |                     | Total Marks | Credits |
|--------|--------------|--------------------------------------|-------------|------------------------|---|----|-------------------------|---------------|---------------------|-------------------------|---------------------|-------------|---------|
|        |              |                                      |             | L                      | T | P  | Theory                  |               |                     | Practical               |                     |             |         |
|        |              |                                      |             |                        |   |    | End Sem University Exam | Two Term Exam | Teacher Assessment* | End Sem University Exam | Teacher Assessment* |             |         |
| 1      | BTAU701      | COMBUSTION AND HEAT TRANSFER         | DCS         | 3                      | 0 | 2  | 60                      | 20            | 20                  | 30                      | 20                  | 150         | 4       |
| 2      |              | ELECTIVE-II                          | DES         | 3                      | 0 | 0  | 60                      | 20            | 20                  | 0                       | 0                   | 100         | 3       |
| 3      | BTAU703      | VEHICLE DYNAMICS                     | DCS         | 3                      | 1 | 2  | 60                      | 20            | 20                  | 30                      | 20                  | 150         | 5       |
| 4      | BTME704      | REFRIGERATION & AIR CONDITIONING     | DCS         | 3                      | 0 | 2  | 60                      | 20            | 20                  | 30                      | 20                  | 150         | 4       |
| 5      | MBAI301C     | HUMAN VALUES AND PROFESSIONAL ETHICS | ODS         | 3                      | 1 | 0  | 60                      | 20            | 20                  | 0                       | 0                   | 100         | 4       |
| 6      | BTAU705      | MINOR PROJECT                        | DS          | 0                      | 0 | 6  | 0                       | 0             | 0                   | 50                      | 50                  | 100         | 3       |
| 7      | BTME706      | COMPUTATIONAL FLUID DYNAMICS LAB     | DS          | 0                      | 0 | 4  | 0                       | 0             | 0                   | 0                       | 30                  | 30          | 2       |
| 8      | BTME707      | MECHATRONICS LAB                     | DS          | 0                      | 0 | 2  | 0                       | 0             | 0                   | 0                       | 20                  | 20          | 1       |
| TOTAL  |              |                                      |             | 15                     | 2 | 18 | 300                     | 100           | 100                 | 140                     | 160                 | 800         | 26      |

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

| LIST OF ELECTIVE VII SEM (ELECTIVE-II) |                                       |
|--|---------------------------------------|
| BTAU712                                | FAULT DIAGNOSIS AND TROUBLESHOOTING   |
| BTAU722                                | HYBRID AND ELECTRIC VEHICLES          |
| BTAU732                                | MATERIAL HANDLING AND STORAGE SYSTEMS |
| BTAU742                                | SQC AND TOTAL QUALITY MANAGEMENT      |

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Board of Studies

Shri Vaishnav Vidyapeeth Vishwavidyalaya  
Indore

Joint Registrar

Shri Vaishnav Vidyapeeth Vishwavidyalaya  
Indore