

# Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal

## New Scheme of Examination as per AICTE Flexible Curricula

### VI Semester

### Bachelor of Technology (B.Tech.) Automation & Robotics

**(w.e.f. Jan, 2023)**

| S.No. | Subject Code                      | Category   | Subject Name                         | Maximum Marks Allotted  |                |                  |           |                                   | Total Marks | Contact Hours per week |   |    | Total Credits |
|-------|-----------------------------------|--|--------------------------------------|---|----------------|------------------|-----------|-----------------------------------|-------------|------------------------|---|----|---------------|
|       |                                   |  |                                      | Theory  |                |                  | Practical |                                   |             | L                      | T | P  |               |
|       |                                   |  |                                      | End Sem.  | Mid Sem. Exam. | Quiz/ Assignment | End Sem   | Term work<br>Lab Work & Sessional |             |                        |   |    |               |
| 1.    | AB 601                            | DC   | Dynamics of Machines                 | 70  | 20             | 10               | 30        | 20                                | 150         | 2                      | 1 | 2  | 4             |
| 2.    | AB 602                            | DC   | Non Conventional Machining Processes | 70  | 20             | 10               | 30        | 20                                | 150         | 2                      | 1 | 2  | 4             |
| 3.    | AB 603                            | DE   | Departmental Elective                | 70  | 20             | 10               | -         | -                                 | 100         | 4                      | - | 0  | 4             |
| 4.    | AB 604                            | OE   | Open Elective                        | 70  | 20             | 10               | -         | -                                 | 100         | 4                      | - | 0  | 4             |
| 5.    | AB 605                            | D Lab  | Robot Programming                    | -   | -              | -                | 30        | 20                                | 50          | -                      | - | 6  | 3             |
| 6.    | AB 606                            | O/E Lab  | Soft Computing Techniques Lab        | -   | -              | -                | 30        | 20                                | 50          | -                      | - | 6  | 3             |
| 7.    | AB 607                            | IN   | Internship-III                       | To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester. |                |                  |           |                                   |             |                        |   |    |               |
| 8.    | AB 608                            | P  | Minor Project II                     | -   | -              | -                | -         | 50                                | 50          | -                      | - | 4  | 2             |
| 9.    | Additional 1 Credits <sup>#</sup> | <sup>#</sup> Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level. |                                      |   |                |                  |           |                                   |             |                        |   |    |               |
|       |                                   |  | Total                                | 280   | 80             | 40               | 120       | 130                               | 650         | 12                     | 2 | 20 | 24            |

| Departmental Electives                     | Open Electives                              |
|--|---|
| AB 603 (A) Additive Manufacturing          | AB 604 (A) Total Quality Management         |
| AB 603 (B) Automation System Design        | AB 604(B) Probability and Statistics        |
| AB 603 (C) Work Study and Ergonomics       | AB 604 (C) Introduction to Machine Learning |
| AB 603 (D) Production Planning and Control | AB 604 (D) Internet of Things               |

|              |               |                |
|--------------|---------------|----------------|
| 1 Hr Lecture | 1 Hr Tutorial | 2 Hr Practical |
| 1 Credit     | 1 Credit      | 1 Credit       |