

# Savitribai Phule Pune University

## Skill Development Centre

### BACHELOR IN VOCATION(B.Voc.) in Automotive Automation

( 3 years Degree Course)

#### Semester - I

| <b>Subject Code</b> | <b>Name of the Subject</b>     | <b>TH/PR</b> | <b>Credits</b> | <b>Contact Hrs.</b> |
|---------------------|--------------------------------|--------------|----------------|---------------------|
| AAT01               | Introduction of Automotive     | TH           | 4              | 60                  |
| AAT02               | Automotive Engines             | TH           | 4              | 60                  |
| AAT03               | Automotive Transmission System | TH           | 4              | 60                  |
| AAP01               | Life Skills and Software Tools | PR           | 6              | 90                  |
| AAP02               | Auto Technician Part-I         | PR           | 12             | 180                 |
| <b>Total</b>        |                                |              | <b>30</b>      | <b>450</b>          |

#### Semester - II

| <b>Subject Code</b> | <b>Name of the Subject</b>  | <b>TH/PR</b> | <b>Credits</b> | <b>Contact Hrs.</b> |
|---------------------|-----------------------------|--------------|----------------|---------------------|
| AAT04               | Automotive Control Systems  | TH           | 4              | 60                  |
| AAT05               | Advanced Automotive Engines | TH           | 4              | 60                  |
| AAT06               | Advanced Automotive Systems | TH           | 4              | 60                  |
| AAP03               | Industrial Training         | PR           | 6              | 90                  |
| AAP04               | Auto Technician Part-II     | PR           | 12             | 180                 |
| <b>Total</b>        |                             |              | <b>30</b>      | <b>450</b>          |

#### Semester - III

| <b>Subject Code</b> | <b>Name of the Subject</b>     | <b>TH/PR</b> | <b>Credits</b> | <b>Contact Hrs.</b> |
|---------------------|--------------------------------|--------------|----------------|---------------------|
| AAT07               | Hydraulic and Pneumatic system | TH           | 4              | 60                  |

|              |                                      |    |           |            |
|--------------|--------------------------------------|----|-----------|------------|
| AAT08        | Study of VFDS                        | TH | 4         | 60         |
| AAT09        | PLC                                  | TH | 4         | 60         |
| AAP07        | Laboratory - Hydraulic and Pneumatic | PR | 6         | 90         |
| AAP08        | Laboratory - PLC/VFDs                | PR | 12        | 180        |
| <b>Total</b> |                                      |    | <b>30</b> | <b>450</b> |

### Semester - IV

| Subject Code | Name of the Subject                        | TH/PR | Credits   | Contact Hrs. |
|--------------|--|-------|-----------|--------------|
| AAT010       | Sensors and Actuators                      | TH    | 4         | 60           |
| AAT011       | HMI(Human Machine Interface )/SCADA        | TH    | 4         | 60           |
| AAT012       | Robotics                                   | TH    | 4         | 60           |
| AAP09        | Laboratory – (Industrial Training/Project) | PR    | 6         | 90           |
| AAP010       | Laboratory –(Robotic/HMI/SCADA)            | PR    | 12        | 180          |
| <b>Total</b> |  |       | <b>30</b> | <b>450</b>   |