

# SEMESTER

# V

**(AU501) AUTO TRAINING I**

**1. COURSE OBJECTIVES:**

During the course of Industrial training a student will get an opportunity to familiarize himself with the industrial environment & work culture. The student will get detailed insights into management systems, roles of different departments and would also obtain a hands-on experience in the use of the various tools, machines, equipment & instruments used in the auto industry. This phase of training would also enable him to assimilate more effectively the theory taught to him on his return to the Institute for the subsequent terms.

**2. TEACHING AND EXAMINATION SCHEME**

Semester	V	Examination Scheme				Total Marks
Course code & course title	TERM WORK		PR/OR			
AU501 AUTO TRAINING I	DAILY DAIRY	PROGRESSIVE ASSESSMENT	TRAINING REPORT	SEMINAR / VIVA	GRADE	
	50	50	50	50		

**3. COURSE OUTCOMES:**

On successful completion of the course, the student will be able to:

AU501CO1: Describe the layout of the industry, organization structure and roles and responsibilities of different departments in the auto industry.

AU501CO2: Make use of various tools, machines, equipment & instruments used in the automotive industry following proper procedures and safety norms.

AU501CO3: Execute repairs and maintenance of vehicle systems as per standard operating procedures under supervision.

AU501CO4: Prepare training report and give oral presentation related to training undertaken.

**4. Mapping Course Outcomes with Program Outcomes**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO1	PSO2
CO1	3	2	2	2	2	2	2	2	2
CO2	3	3	2	3	3	2	3	3	2
CO3	3	3	3	3	3	2	3	3	3
CO4	2	0	0	0	0	3	2	2	2

Relationship: Low-1 Medium-2 High-3

**5. DETAILED COURSE CONTENTS / MICRO-LESSON PLAN**

M = Marks	Thr = Teaching hours	CO = Course Objectives
<b>Unit</b>		<b>CO</b>
<b>1 COMPANY INFORMATION</b>		
1.1 Collect information about the industry 2.2 Understand the plant/factory layout, organization structure and roles and responsibilities of different departments in the auto industry.		CO1
<b>2 TRAINING JOBS</b>		CO2 CO3 CO4
Students are required to perform and/or familiarize themselves with at least 4 of the following jobs/ assignments/tasks during the training period:		
<ol style="list-style-type: none"> <li>1. Periodic Maintenance Servicing of a vehicle</li> <li>2. Dismantling &amp; Assembling of an Engine</li> <li>3. Dismantling &amp; Assembling of a gear Box/Transmission</li> <li>4. Dismantling &amp; Assembling of a Clutch</li> <li>5. Dismantling &amp; Assembling of a Driveline &amp; Differential</li> <li>6. Dismantling &amp; Assembling of a Suspension System</li> <li>7. Engine Tune-up</li> <li>8. Maintenance &amp; Repair of a Braking System</li> <li>9. Maintenance &amp; Repair of a Steering System</li> <li>10. Maintenance &amp; Repair of a Engine Cooling System</li> <li>11. Maintenance &amp; Repair of the Electrical/Electronic Systems</li> <li>12. Maintenance &amp; Repair of the Hydraulic/Pneumatic Systems</li> <li>13. Body Engineering aspects of Denting / Sheet metal work</li> <li>14. Body Engineering aspects of Painting</li> <li>15. Body Engineering aspects of Corrosion Protection</li> <li>16. Body Engineering aspects of Chassis lubrication</li> </ol>		

**6. COURSE DELIVERY:**

The Course will be delivered through In-plant training.

**7. SPECIFICATION TABLE FOR TERM WORK & PRACTICALS**

No	Practical	Marks
1.	<b>DAILY DIARY</b> Every student undergoing In-plant Training is required to maintain a ‘Daily Diary’ in the prescribed booklet supplied to them, giving a brief account of the various activities performed during the day for the entire period of the training. The entries should be authenticated /validated on a regular basis by the supervising authority at the place of work.	50
2.	<b>PROGRESSIVE ASSESSMENT</b> The evaluation system will also include three assessments during the training period. There will be two assessments done at the institute wherein a student will be required to give a presentation of the jobs undertaken by him during his training. Besides these there will also be an assessment done at the industry in consultation with industry personnel.	50
3.	<b>TRAINING REPORT</b>	50

## Directorate of Technical Education, Goa State

	The student is expected to write a detailed 'Training Report', in a hard bound booklet as per the format provided by the department. The report should include information about the company, organization structure, plant/workshop layout and details of jobs/assignments/major activities undertaken during the training supported with diagrams, pictures, graphs etc. Assessment of Training Report be based on Knowledge, Presentation, Quality of contents and Sketches.	
4.	SEMINAR/VIVA The appointed examiners shall assess the trainee based on their training report and performance in viva.	50
	Total	200

**Note:**

1. Grades will be awarded based on marks scored as follows:
  - a. 80% and above Marks – Grade 'A'
  - b. 60% to 79% Marks – Grade 'B'
  - c. 40% to 59% Marks – Grade 'C'
  - d. Marks below 40% - Grade 'D'
2. TW and PR/OR shall be separate heads of passing. Student has to secure minimum Grade 'C' for passing.
3. Student with Grade D, under the Head TW, shall be declared T.N.G. and a student whose term is granted but obtains Grade D, under the Head PR/OR, shall be declared Failed/ATKT.