



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Bachelor of Vocation (B.Voc), 5th Semester
Branch: Automobile Servicing
Subject Name: Design of Automotive Systems Lab.
Subject Code: 1150106

**With effective
from academic
year 2018-19**

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			C	ESE (E)	PA (M)	ESE (V)	PA (I)	
-	-	2	2	-	-	30	20	50

Course Content: Practical

Sr. No.	Content
1.	Design of automotive clutch assembly and component drawing using any drafting software (Two full imperial sheets along with design calculations report) consists of: <input type="checkbox"/> Functional design of clutch <input type="checkbox"/> Design of clutch shaft, hub and flange <input type="checkbox"/> Design of damper springs <input type="checkbox"/> Design of sectors, rivets etc. <input type="checkbox"/> Design of pressure plate assembly <input type="checkbox"/> Design for linkage mechanism <input type="checkbox"/> Details and assembly drawing <input type="checkbox"/> Details and assembly drawing
2.	Design of automotive gear box along with reverse gear (Two full imperial sheets along with design calculations report) consists of: <input type="checkbox"/> Calculation of gear ratios <input type="checkbox"/> Determination of number of teeth on gear pair <input type="checkbox"/> Determination of gear reductions <input type="checkbox"/> Design of gear pairs <input type="checkbox"/> Design of shafts <input type="checkbox"/> Selection of bearings <input type="checkbox"/> Details and assembly drawing
3.	Design of suspension spring and its analysis using any analysis software