GUJARAT TECHNOLOGICAL UNIVERSITY
AUTOMOBILE ENGINEERING
B. E. SEMESTER: VII

Subject Name: **Project – I**
Subject Code: **170001**

Teaching Scheme				Evaluation Scheme			
Theory	**Tutorial**	**Practical**	**Total**	**University Exam (E)**		**Mid Sem Exam (Theory) (M)**	**Practical (Internal)**
				Theory	**Practical**		
0	0	4	4	0	100	0	50

Sr. No.	Course Contents	Total Hrs
1.	Each individual student or a group of students should approach Top Management / or responsible heads of various department in Automobile or Automotive component / components / Assembly / sub Assembly or Automotive Aggregates manufacturing Industry, Automotive Products related Service providers, Transport and Logistics Management Companies or State Transport Under takings (STU), Automotive Insurance Companies or Damage Assessing Insurance agencies, , Automobile Sales, Service and Parts sales outlets, etc. and get permission for vocational training for an appropriate period to understand the basics of Industry operations in the field of interest of each students/group of students. Students should inform the objective of the Vocational training being the part of "SHODH YATRA" initiative. Once permitted each students/group of students should visit the respective company as guided by the Industry Authority concerned to get acquainted with their operations, methodology, understand various processes during the period post University examinations of 6th Semester. At the end of this vocational training period and or during the visits to the Industry or the work carried out at the Institute for at least four hours per week during the VIIth Semester, in order to search for one or more research projects related to following (but not restricted to only the listed areas below) or any other areas mutually agreed between the mentor from the Industry and the faculty from the Institute (as guide). The focus should be on Innovation or Value engineering or improvement in performance / Services / Exhaust Pollution or Energy saving etc and finally implementation of the work done. The format available on the GTU website should be filled and submitted by the student as per the deadline given/updated from time to time: • New Product Design & Development, Design Analysis, Fabrication /	4

	manufacturing of Automobile component/s, Assembly / Sub-Assembly, Equipments / tools deployed in Automobile Industry. • Planning, Procurement, Tool Design, Manufacturing, Assembly line and Paint shop related functions. • Manufacturing facilities / equipment automation. • Design & Development of Test rig. • Automobile Industry based survey. • Automobile Industry related Management functions in different departments of Marketing, Sales, Service, Parts and New Product launch, Dealer ship / franchisee, Distribution related issues etc. • Any problem definition in terms of Innovation Idea. Each defined project needs to be from Industry/Research organization/Govt.organization/socio-technical issues. The student has to prepare a “Problem definition” for doing the research work in the area of Problem statement. Prepare an exhaustive report on the work carried out at the Institute or at the Industry for evaluation at the end of VIIth Semester, as prescribed by GTU. Depending upon the work content and quality of the project the same can be continued in the VIIIth Semester or new project can be under taken as decided by the faculty guide from the Institute or the student has to find and work on another project in the VIIIth Semester.	