

GANPAT UNIVERSITY										
FACULTY OF ENGINEERING & TECHNOLOGY										
Programme		Diploma Engineering				Branch		Automobile Engineering		
Semester		V				Version		1.0.0.0		
Effective from Academic Year			2020-21			Effective for the batch Admitted in			July 2018	
Subject code		1AU2501		Subject Name		AUTOMOBILE INDUSTRIAL TRAINING				
Teaching scheme					Examination scheme (Marks)					
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total	
	L	TU	P	TW						
Credit	0	0	0	0	20	Theory	0	0	00	
Hours	0	0	0	0	0	Practical	100	200	300	

RATIONALE

- The diploma engineers are required to work in industry to manufacture and test components and parts, assemble automobiles, and in workshops for diagnose problems and repair automobiles.
- The students need to have industry and workshop exposure, where they can experience real life equipment, materials, instruments and various kinds of automobiles.
- This course has been designed for the students to have real life experiences to help them prepare for their career.
- The automotive sector needs skilled and managerial personnel who have technical expertise as well as entrepreneurial qualities to manage the growing automotive industry.

COURSE OUTCOMES

- Students should be able to demonstrate these skills on the type of automobile on which they are trained, the following list is suggestive only, some more skills may be acquired by student depending upon the opportunities they get and in some cases some of the following skills may not be applicable for the automobile on which they have undergone training)

Assessment

Progressive Assessment

Internal Faculty should evaluate training on following criteria and marks-(Max. Marks=200)

1. Monthly Presentation with PPT / speak out-(Maximum 100 Marks: Two monthly presentations of 50 marks each) during monthly visits of student to institute
2. Review of Log Book, Weekly Report (FORM-3) & Monthly Report (FORM-4) (Maximum 150 Marks: 50 marks for each monthly review during visit of teacher to industry (three visits)
3. Final project report at the end of training by Internal Faculty-(Maximum 50 Marks)
4. Internal presentation and viva by internal Faculty (Maximum 50 Marks) at the end of the semester

End Semester External Examination

- Evaluation of SEE will be done by the External exam for practical (20 students per day (six hours) will be examined by external examiner.) External examiner should evaluate training on following criteria and marks-(Max. Marks=200)
 - Presentation with viva - (Maximum 50 Marks)
 - Practical Skills Exam- (Maximum 50 Marks)
- 3 to 4 basic/core practical skills out of the total skills which students are supposed to have learnt during their industrial training should be examined depending upon available equipments/instruments at Institute level.
- Review of Record and Training Report- (Maximum 100 Marks) such as log book, weekly reports, monthly reports, final training report including review of some critical/special experiences student has undergone (and mentioned in his report) at industry.

SUGGESTED WORK LOAD

Load of guiding and monitoring industrial training per week per division:

- for placing the students in training, visit industry/ follow up the students at training at least once in a month for evaluating student's activity and their progress.
- Also conduct the presentation with PPT / speak out at least once in a month at their parent college per batch for evaluating student's activity and their progress.
- Total 40 hrs load per week per division may be considered. Institute has to prepare time table for the teachers in such a manner that the concerned teachers remain free for one day (may be different days for different teachers) in each week for industrial visits and conducting the presentation at their parent college.

GUIDELINES FOR INDUSTRIAL TRAINING OF DIPLOMA IN AUTOMOBILE ENGINEERING

- Total no. of trainings during the curriculum: once in 5th semester.
Duration of the training: One full semester.
- Eligibility: As per GNU detention norms at the time of training. Student can be sent for training subject to eligibility.
- Training Area: Students can be trained in Automobile Manufacturing units, authorized Automobile workshop /garage /Service Stations, GSRTC divisional workshops, GSRTC central workshops etc.

Role of Department:

- Department have to send training request letter to various industries well in advance before commencement of training.
- After getting sufficient number of seats from the industries/garages, students will be placed in different industries/garages for their 5th semester training.
- Students will have to fill up training form.(attached here with form-1)
- Department will issue an order letter to industry/garages for the said training mentioning the name and registration number of students.
- All above activities have to be carried out in vacation / in advance of previous semester as plan out of placement in consultation with students. The students would normally be placed as per their choices, in case of more demand for a particular industry/service centre
- students would be allocated place based on their relative merit (based on third semester results).
- During the training period, the head of the department will maintain a schedule for follow up of industrial training and according to it he/she will send the faculty members to various industries.
- The faculty member during the monthly visit to industry will check the progress of the student in the training, his/ her attendance, discipline and project report preparation.
- Department would prepare the schedule of the students monthly visits to institute and would assess their training based on their presentation
- The department has to keep record of above progressive assessment during monthly visits of teachers to industry and students to institute.
- At the end of the training internal faculty member will assess the work done by student based on his presentation at the institute and training report.

Role of Industry

- Industry will give effective training to the students for improving their practical skills.
- Industry is expected to assign group of the students under training to some middle management level person for supervision and guidance (Training-in-charge).
- Training in-charge has to sign weekly diary (To certify the work done by students) with appropriate remarks.
- Industry may allot project to individual or group of students under training and students has to prepare report on the same project.
- Training in-charge are requested to guide students for preparing their project report.
- Industry is expected to maintain attendance for the student under training and report any irregularity of the students to their parent college.
- Industry is also expected to issue a certificate of attending training on their letter head with comments if any for student's record and motivation.

GUIDE LINE FOR STUDENTS

- Students would interact with the identified faculty of the department to suggest his choices for suitable industry/service centre
- Students have to fill the forms duly sealed and signed by authorities along with training order letter and submit it to training officer in the industry on the first day of training. (attached here with form-2)
- Student would carry with him/her the Identity card issued by institute during training period
- He/she will have to get all the necessary information from the training officer regarding schedule of the training, rules and regulations of the industry. Student is expected to follow these rules, regulations, procedures etc obediently.
- During the training period students has to keep record of all the useful information in Log book and maintain the weekly diary (attached here with form-3).
- He/she has to prepare a detailed report and presentations for each monthly visit to institute
- Prepare final report about the whole training for submitting to the department at the time of final presentation and viva
- The training report may contain

- Title page
- Certificate
- Abstract
- Acknowledgement
- Index
- Introduction of industry/garage
- Industry/garage lay out and modify modern garage layout (at training place)
- Hierarchy of industry/organization chart.
- Types of major equipments/instruments/machines used in industry with their specification, approximate cost and specific use.
- Particulars of Practical Experiences in industry/workshop - Production/ Assembly/ Testing of automobiles/ assemblies parts, Engine and gear box overhauls, Major vehicle repairs, Faults and remedies of vehicle repairs, Maintenance and preventive maintenance of vehicles.
- Additional data/information on – cost reduction, repair / reconditioning of parts, accidental vehicle studies, Safety features, cost estimates of major repairs, modifications, etc.
- Special/challenging experiences encountered during training if any
- My liking & disliking of work places-
- References
- Bibliography
- It is mandatory for students to maintain and fulfil criteria for attendance framed by Ganpat University for the term to be granted.

SUGGESTED LEARNING RESOURCES

Students may visit websites related to automobiles being manufactured/repared as their learning tool during industrial visit. Source of learning websites are already given during previous semesters. Search videos, animations for preparation of PPT/ speak out as well literature for project report during the training period.

SPECIAL INSTRUCTIONAL STRATEGIES (If any)

- a. Visit industry/ follow up the students at training at least once in a month for evaluating student's activity and their progress.
- b. Conduct the presentation with PPT / speak out at least once in a month at their parent college per batch for evaluating student's activity and their progress.