


Government of Karnataka
Department of Technical Education
Board of Technical Examinations, Bangalore

	Course Title: INPLANT TRAINING (Automobile Stream)		
	Scheme (L:T:P) : 0:0:4	Total Contact Hours: 52	Course Code:15AT67P
	Type of Course: Periodical Exposure and working in industrial environment	Credit :02	Core/ Elective: Core(practice)
CEE:25 Marks		SEE : No End Exam	

Prerequisites: Enthusiasm to Explore New things by participating in individual tasks available in outside industrial learning environment and acquires skills from participating in such activities.

Course Objectives:

An In plant training is a learning opportunity for students. Students should therefore receive feedback on their performance so that they can grow professionally. Overall professional development of diploma automobile engineers is the need of the day for enabling them to sustain in competitive global environment..

COURSE OUTCOME

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

Course Outcome		CL	Linked PO	Allotted hours
CO1	Exposure to the industrial environment and Recognize the requirement of the industry and cope up with the industrial scenario	Application/Analysis/Innovative	2 to 10	4 hrs/week
CO2	Identify career paths taking into account their individual strengths and aptitude and Prepare a report about the work experience in industry	Application/Analysis/Innovative	2 to 10	
CO3	Communicate effectively through technical presentation.	Application/Analysis/Innovative	2 to 10	
CO4	Enhancing the employability skills and start-up skills to increase his ability to engage in, life-long learning,	Application/Analysis/Innovative	2 to 10	
CO5	Develop individual confidence to handle various engineering assignments and expose themselves to acquire life skills to meet societal challenges	Application/Analysis/Innovative	2 to 10	
		TOTAL		52 Hours

COURSE-PO ATTAINMENT MATRIX

Course	Programme Outcomes									
	1	2	3	4	5	6	7	8	9	10
Inplant Training	0	3	3	3	3	3	3	3	3	3
Level 3- Highly Addressed, Level 2-Moderately Addressed, Level 1-Low Addressed. Method is to relate the level of PO with the number of hours devoted to the COs which address the given PO. If >40% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 3 If 25 to 40% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 2 If 5 to 25% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 1 If < 5% of classroom sessions addressing a particular PO, it is considered that PO is considered not-addressed.										

1. In plant training:**52 HRS****A. Introduction**

1. In-plant training means a course of training in any industry or establishment undergone by the student of final year diploma in Automobile engineering in pursuance of memorandum of understanding between industry and department of the concerned institute or department can make necessary arrangements in the local vicinity industries to expose their students for industry learning environment.
2. Industry means any industry or business in which any trade, occupation or subject field in engineering or technology may be specified as a designated trade. Establishment includes any place where any industry is carried on.
3. The period of in-plant training will be the period of one semester term for the subject. The student can sent to the industry for one day in a weak or for fixed term as the case may be .The period of training and other modalities will be decided by the respective department head in consultation with local industry authorities.

B. The Industries where in plant training can undergone

1. The Guide allotted by the department head have liberty to select nearby organization/industry of local vicinity with prior approval of principal of the institute. Structured training to be arranged by guide and report of the same shall be submitted by the individual student, to full fill their term work.
2. The Automobile Engineering diploma students can take in plant training in any one of the following industries.
 - a. Public sector enterprises (AUTOMOBILE RELATED)
 - b. State government undertaking -----DO---
 - c. Public limited companies -----DO-----
 - d. Private limited companies -----DO-----
 - e. Individual ownership organisations -DO-----
 - f. Karnataka State Road Transport depot/divisional/regional work shops
 - g. Karnataka State Road Transport Regional body building work shops
 - h. Farm machinery equipments manufacturing units
 - i. Local leading TWO WHEELER dealer workshops
 - j. Service stations of JCBs and other earthmoving equipment
 - k. Local leading THREE WHEELER dealer workshops
 - l. Local leading FOUR WHEELER dealer workshops

- m. Local leading HEAVY VEHICLE dealer workshops
- n. Local leading TRACTORS dealer workshops
- o. Local leading JCB/ROAD ROLLERS dealer workshops
- p. Local leading ELECTRIC VEHICLE dealer workshops
- q. Local leading BODY BUILDER workshops
- r. Automobile manufacturing / press component / auto component manufacturing units in local polytechnic vicinity
- s. Local cement industries
- t. Sugar factories
- u. The power generation units
- v. Local diesel power plants

C. Obligation on students

1. To learn his/her subject field in Engineering or Technology conscientiously and diligently at his place of training.
2. To carry out all orders of his Employer and the Superior in the establishment.
3. To abide by the Rules and Regulations of the Industry/Establishment in all matters of conduct and discipline.
4. The student shall maintain a report of his work during the period of his in-plant training in a proforma Annexure-1
5. They are required to complete their in-plant training in a given period.
6. During this period, they shall be familiar with the understanding of the shop process and activities.
7. The students can be asked to solve the mini-shop problem, which will make them think and try out short experiments as an improvement in the process, tools and equipment.

D. Monitoring of In-Plant Training

1. The department Head will make the batches in group of students, The faculty will be made in charge of supervising and monitoring the activity of the group
2. The faculty and Industry supervisor will work out a suitable arrangement to review the progress of the work from time to time. The department Head should monitor the progress of in-plant training in association with industry authority.
3. Every student undergoing in-plant training in the respective branch of Engineering in any Establishment shall be treated as a trainee. The provision of any law with respect to labour will not apply to such a trainee
4. It shall not be obligatory on the part of the Employer / Industry to offer any stipend and other welfare amenities available, if any, to the students undergoing in-plant training. However, if the industry desires to do so, it will be a privilege for the students

MODEL OF RUBRICS FOR ASSESSING REVIEWS OF PROJECT FOR CIE**RUBRICS MODEL**

Student Name:				Reg NO:		
RUBRICS FOR ACTIVITY(5 Marks)						
Dimension	Unsatisfactory	Developing	Satisfactory	Good	Exemplary	Student Score
	1 Mark	2 Mark	3 Mark	4 Mark	5 Mark	
Collection of data	Does not collect any information relating to the topic	Collects very limited information; some relate to the topic	Collect much information; but very limited relate to the topic	Collects some basic information; most refer to the topic	Collects a great deal of information; all refer to the topic	Ex: 4
Fulfill team’s roles & duties	Does not perform any duties assigned to the team role	Performs very little duties but unreliable.	Performs very little duties	Performs nearly all duties	Performs all duties of assigned team roles	5
Shares work equally	Always relies on others to do the work	Rarely does the assigned work; often needs reminding	Usually does the assigned work; rarely needs reminding	Normally does the assigned work	Always does the assigned work without having to be reminded.	3
Listen to other Team mates	Is always talking; never allows anyone else to speak	Usually does most of the talking; rarely allows others to speak	Talks good; but never show interest in listening others	Listens, but sometimes talk too much	Listens and speaks a fair amount	2
Average / Total marks=(4+5+3+2)/4=14/4=3.5=4						

Note: This is only an example. Appropriate rubrics/criteria may be devised by the concerned faculty (Course Coordinator) for assessing the given activity.

F. Scheme of valuation**CIE**

SL No	Particulars	Marks
1	Involvement in implant training	05
2	Assessment of the term work	10
3	Seminar performance	05
4	Viva	05
	TOTAL	25

Course Assessment and Evaluation Scheme:

	What		To whom	When/Where (Frequency in the course)	Max Marks	Evidence collected	Course outcomes
Direct Assessment method	CIE	IA	Students	CIE	25	Report (Annexure1)	1,2,3,4,5
Indirect Assessment	Student Feedback on course		Students	Middle of the course		Feedback forms	1,2,3 Delivery of course
	End of Course Survey			End of the course		Questionnaires	1,2,3, Effectiveness of Delivery of instructions & Assessment Methods

Note to IA verifier: The following documents to be verified by CIE verifier at the end of semester

1. Student activities report for 25 marks
2. Student feedback on course regarding Effectiveness of Delivery of instructions & Assessment Methods.

ANNEXURE1

(To be issued in the company's Letterhead)

INPLANT TRAINING EVALUATION FORM**FOR THE STUDENTS OF FINAL YEAR DIPLOMA IN _____**

Date:

1. Name of the Student and Reg. No.-----
2. Father's Name : -----
3. Branch : -----
4. In plant training Offered : From----- To-----

A. Evaluation of the Student may be done with the following letter grades. The grade point for the letter grades is given below.

Grades	A	B	C	D	E (low)
Points	5	4	3	2	1

B. Assessment parameters

Sl NO	Parameters	Grades awarded
1	Knowledge Acquired During Internship	
2	Ability to use Techniques and Methods Appropriate for Assignments	
3	Ability to Display the Technical Skills required	
4	Ability to Organize, Classify and Deliver the job	
5	Perseverance to Complete the job	
6	Takes Initiative and Works with Minimal Supervision	
7	Attendance and Punctuality	
8	Ability to Establish Positive Relationships with the Managers and Peers	
9	Personal Conduct and Behaviour	
10	Ability to Cope Up with the Stressful Situations	

C. Department (s) / Section (s) where the in plant trainee was accommodated:

SL NO	Department (s)/Section(S)	Type of Work	Period	
			From	To

5. Areas where student excels:

6. Areas where student needs to improve:

7. Areas where student gained new skills, insights, values, confidence, etc.:

8. Did student demonstrate continued progress throughout the internship term?:

9. Was student's academic preparation sufficient for this internship?

10. Additional comments or suggestions for the student?

11	Overall Evaluation of the in plant trainee Performance	Grade Awarded

Name / Signature of Officer In-charge (Training) :

Authorized Signatory

ANNEXURE 2

REPORT ON INPLANT TRAINING FORMAT FOR PREPARATION OF TRAINING REPORT

ARRANGEMENT OF CONTENTS:

The sequence in which the training report material should be arranged and bound as follows:

1. Cover Page
2. Inner Title Page (Same as cover page)
3. Certificate by Company/Industry/Institute
4. Acknowledgement
5. About Company/industry/institute
6. Table of Contents
7. List of Tables
8. List of Figures
9. Abbreviations and Nomenclature(If any)
10. Chapters
11. References
12. Data Sheet(If any)
13. Appendices (If any)

The tables and figures shall be introduced in the appropriate places.

TYPING INSTRUCTIONS:

1. The In plant training report must be submitted in Two Copies (one for department and 2nd for library) duly signed by the HOD. Students should also submit the soft copy on CD in pdf format in the library.
2. The length of the training report may be about 40 to 50 page.
3. The training report shall be computer typed (English- British, Font -Times Roman, Size- 12 point) and printed on A4 size paper.
4. The training report shall be hard bound with cover page in Maroon color. The name of the students, degree, duration of training period, institute name shall be printed in **Bold Black** letters on the cover page
5. The training report shall be typed with 1.5 line spacing with a margin 3.5 cm on the left, 2.5 cm on the top, and 1.25 cm on the right and at bottom. Every page in the report must

be numbered. The page numbering, starting from acknowledgements and till the beginning of the introductory chapter, should be printed in small Roman numbers, i.e. i, ii, iii, iv..... The page number of the first page of each chapter should not be printed (but must be accounted for). All page numbers from the second page of each chapter should be printed using Arabic numerals, i.e. 2,3,4,5... All printed page numbers should be located at the bottom centre of the page.

6. In the training report, the title page [Refer sample sheet (inner title pager)] should be given first and printed in black letters.
7. **The table of contents** should list all headings and sub-headings. The title page and certificates will not find a place among the items listed in the Table of Contents. One and a half line spacing should be adopted for typing the matter under this head.
8. **The list of tables** should use exactly the same captions as they appear above the tables in the text. One and a half spacing should be adopted for typing the matter under this head.
9. **The list of figures** should use exactly the same captions as they appear below the figures in the text. One and a half spacing should be adopted for typing the matter under this head.
10. The list of symbols, abbreviation & nomenclature should be typed with one and a half line spacing. Standard symbols, abbreviation etc should be used.
11. Training report should consist of following chapters.
 - a. Chapter 1- Introduction
 - b. Chapter 2- Details of department/Areas where the student undergone training
(It will be divided into several chapters and each chapter should be numbered separately. A chapter may be further divided into several divisions and sub-divisions depending on the content)
 - c. Chapter 3- PO/Skills attained by training.
 - d. Chapter 4- Conclusion by the student

APPENDIX-3 (INPLANT-TRAINING-TIME LINE)

S N	TASK	Responsibility	END OF V SEMESTER				Vacation in between V SEM-VI SEM /During the term VI SEMESTER (Not less than 2 weeks continuously)/ During-VI SEMESTER (Every Saturday in a week)														
			12	13	14	15	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	WEAKS /DAYS																				
1	Seminar regarding In plant training	HOD																			
2	Batch formation &Guide allocation	HOD																			
3	Identification of Factory	Guide																			
4	Permission form Factory authorities	Students																			
5	Schedules of In plant training	Students Guide																			
6	INPLANT TRAINING	Students Guide																			
7	Review of Training by guide	Students																			
8	Report submission	Students Guide																			