

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

Course Title : INPLANT TRAINING	Course Code : 15EC67P
Semester : 6	Course Group : Core
Teaching Scheme in Hr. (L:T:P) : 0:0:4	Credits : 2
Type of course : Practical	Total Contact Hours : 64
CIE : 25 Marks	SEE : Nil

Prerequisites

Knowledge of electronics and communication engineering, programming languages and management, and enthusiasm to undergo industrial training.

Course Objectives

Exposing the students to the real-world industrial environment to acquire knowledge of various professional skills, working of industry, and interaction with the people, in order to instill confidence and encourage to take-up professions/entrepreneurship to serve the society in general.

Course Outcomes

Course Outcome		CL	Linked POs	Training Hrs
CO1	Identify the industry and their locations, products/expertise/domain, and interact with the authorities there at.	U/A/E/C	2 to 10	60
CO2	Acquaint various structural partitions such as labs, workshops, assembly units, stores, and administrative unit and machinery units; understand their functions, applications and maintenance; understand the business model of the industry; and understand the innovations/achievements of the industry.	U/A/E	2 to 10	
CO3	Communicate effectively through technical presentation, report and interactions, and identify career goals and paths based on individual attributes such as affinity, aptitude, strengths and challenges, and inputs from the in-plant training.	U/A/E	2 to 10	
CO4	Enhance communication skills and life-long learning, and acquire technical skills, employability skills, start-up skills, and risks in industry, management skills and such other skills which are conducive to professional engagement.	U/A/E	2 to 10	
Internal Assessment				04
Total sessions				64

Legend: R-Remember, U-Understand, A-Application, E-Evaluate, C-Create, CL-Cognitive Level, and PO-Program Outcome

Course Delivery

In-plant training can be imparted in any of the following methods

1. It can be completed at a stretch on daily frequency, amounting to 60 hours, during the fifth semester vacation.
2. It can be completed throughout the sixth semester with one-day per week frequency amounting to 60 hours
3. Any other method as conducive to the training and convenient to the industry and students, without affecting the academics of the remaining courses, with the permission of Principal/HOD and guide.

Note:

1. In-plant training is for all students individually and every student is assigned a guide for supervision and assessment.
2. In-plant training can be in any electronics and communication/IT-based small-scale/medium-scale/large-scale, preferably locally available, industry.
3. Every student has to submit a brief report of the training undergone at the industry. Report should be typed and printed on a A4 size paper and submit after simple/spiral binding.
4. Completion certificate from the industry is optional.

Mapping Course Outcomes with Program Outcomes

Course Outcomes	Programme Outcomes									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	-	-	*	*	*	*	*	*	*	*
CO2	-	-	*	*	*	*	*	*	*	*
CO3	-	-	*	*	*	*	*	*	*	*
CO4	-	-	*	*	*	*	*	*	*	*

Course-PO Attainment Matrix

Course	Programme Outcomes									
	1	2	3	4	5	6	7	8	9	10
In-plant training	-	-	1	3	3	2	3	1	2	2

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 $\geq 40\%$ 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.

Course Assessment and Evaluation Scheme**Master Scheme**

Assessment Method	What		To Whom	Assessment mode /Frequency /timing	Max. Marks	Evidence Collected	Course Outcomes
Direct assessment	CIE	IA	Students	In-plant Training*	10	Attendance and performance appraisal at the plant	1 to 4
				Presentation/ Viva*	10	Presentation material softcopy	1 to 4
				Report*	5	Report copy	1 to 4
	SEE	End exam		No end exam			
	Total			50			
Indirect assessment	Student feedback on course		Students	Middle of the Course	Nil	Feedback Forms	1 to 3 & Delivery of course
	End of course survey			End of the Course	Nil	Questionnaires	1 to 4, Effectiveness of delivery instructions & assessment methods

Legends: CIE-Continuous Internal Evaluation, SEE- Semester End-exam Evaluation

*Report not exceed 10 pages and qualitative. Assessment for CIE is based on rubrics table

Composition of CLs

Sl. No.	Cognitive Levels (CL)	Weightage (%)
1	Remembering	5

2	Understanding	25
3	Applying	25
4	Evaluation	30
5	Create	15
Total		100

Continuous Internal Evaluation (CIE) pattern

Model of rubrics for assessing CIE (for every student)

Dimension	Scale					Marks (Example)
	1 Unsatisfactory	2 Developing	3 Satisfactory	4 Good	5 Exemplary	
1. Information search and Collection.	Does not collect information relate to topic	Collects very limited information, some relate to topic	Collects basic information, most refer to the topic	Collects more information, most refer to the topic	Collects a great deals of information, all refer to the topic	2
2. Attendance	<65%	65-75%	75-85	85-95	95-100	3
3. Skills acquired/Performance appraisal at plant	E	D	C	B	A	5
4. Presentation internal Viva	Very Poor	Poor	Satisfactory	Good	Excellent	5
						5
5. Repot presentation	Very Poor	Poor	Satisfactory	Good	Excellent	5
Total marks						25

End