Industry Attachment Programme (IAP) (2-4-12 model)

"Industry Attachment Programme (IAP)" has been evolved to make the Automobile Engineering student's role ready at the time of their graduation. Generally, students undergo an internship programme during their final semester, which it is felt will not be adequate to imbibe industry expectations to make a meaningful impact on the student. Keeping this in mind, a programme called "Industry Attachment Programme", has been established where students will undergo internship from their second year onwards.

The programme envisages a select batch of students to undergo one week training during winter vacation of II, III and IV years in selected industry and an internship for 2 weeks, 4 weeks and 12 weeks during their summer vacation of II, III and IV year respectively, with the same industry. This arrangement facilitates the students to understand the nitty-gritty of the industry operations thoroughly as well as the industry to have a critical appraisal of the student for possible employment.

Besides the students, a faculty member is also deputed along with the students to learn the industry practices and upgrade their skills to develop into effective teachers.

Basic Training schedule:

Types of Training	Duration	Batch	Year
Training Module-I	5 days	Between 3 rd & 4 th sem – winter vacation	II year
Internship-I	2 weeks	Between 4 th & 5 th sem – summer vacation	II year
Training Module-II	5 days	Between 5 th & 6 th sem – winter vacation	III year
Internship-II & project identification	4 weeks	Between 6 th & 7 th sem – summer vacation	III Year
Training Module-III	5 days	Between 7 th & 8 th sem	IV Year
_		– winter vacation	
Internship-III &	12 weeks	During 8 th sem	IV year
Project submission			

Sakthi Auto Component Limited (SACL) Training Schedule in various sub Industries:

MCET Students - Industry Attachment Program (I A P) with Sakthi Auto Components Limited : Training Module-I

	Training Module-I								
S. No	Training Topic	Training mode	Contents	Duration	Time	Faculty	Venue		
	<u>Day 1</u>								
1	Company Introduction	Class room	SACL Overview presentation	45 Minutes	9.30 am to 10.15 am	Mr.N. Kandasamy	DISA Conference Hall		
			Industrial safety		10.15 am to 01.00 pm	Mr. V.P. Thangavel			
			Road safety	2 Hrs 45 Min			DICA		
2	Safety Procedures	Procedures Class room	Personal safety				DISA Conference		
			Fire Safety				Hall		
			Electrical safety						
			Importance of PPE						
3	Plant visit		Visit to all Manufacturing Process	3 Hours	02.00 pm to 05.00 pm	Mr.N. Kandasamy& Team	Plant visit		
	<u>Day 2</u>								
4	CSR	Class room	Customer specific requirements	1 Hour	9.30 am to 10.30 am	Mr.N. Kandasamy / Mr.K. Karthikeyan	DISA Conference		
5	Drawing study		Study and analysis of product drawing	1 Hour	10.30 am to 11.30	Mr.N. Kandasamy / Mr.K.	Hall		

					am	Dharmaraja	
6	Raw Material		Specification fixation Preparation of Raw material spec sheet Testing Methods & Approval Process	1 Hrs 30 Min	11.30 am to 01.00 pm	Mr.N. Kandasamy / Mr. A. Ramesh	
7	Plant vi	sit	Visit to raw Material testing & inspection	3 Hours	02.00 pm to 05.00 pm	Mr.N. Kandasamy& Team	Plant visit
	<u>Day 3</u>						
8	Melting Process	Class room	Types of Melting furnace Charging of raw materials Composition control & Tapping	1 Hour	9.30 am to 10.30 am	Mr.N. Kandasamy / Mr. K. Kumaravel	
9	Metallurgy Lab	Class room	Microstructure analysis Mechanical properties Defect analysis	1 Hour	10.30 am to 11.30 am	Mr.N. Kandasamy / Mr. P. Ravi	DISA Conference Hall
10	Process control	Class room	Chemical composition control Mg treatment Pouring, Inoculation Final Composition	1 Hrs 30 Min	11.30 am to 01.00 pm	Mr.N. Kandasamy / Mr. K. Kumaravel	
11	Plant vi	sit	Visit to melting shop and Metallury Lab	3 Hours	02.00 pm to 05.00 pm	Mr.N. Kandasamy& Team	Plant visit
	<u>Day 4</u>						
12	Condition	Classic	Sand mixture		1 9 30 am to 1	Mr.N. Kandasamy	DISA
12	Sand Process	Class room	Sand preparation	1 Hour	10.30 am	/ Mr. K. Kumaravel	Conference Hall

			Sand testing				
			Sand conveying				
			Types of core making	1 Hour	10.30 am to 11.30 am	Mr.N. Kandasamy / Mr. Suganathan	
1.0	Core making		Manufacturing of core dies				
13		Class room	Core processing				
			Core handling				
			Types of Moulding machines			Mr.N. Kandasamy	
4.4	NA - Library		11.30 am	/ Mr. M.	DISA		
14	Moulding process	Class room	Moulding process	Min	to 01.00 pm	Kanagaraj /Mr. Sathish	Conference Hall
			Mould quality		F***		
15	Plant visit		Visit to sand plant, core shop &moulding shop	3 Hours	02.00 pm to 05.00 pm	Mr.N. Kandasamy& Team	Shop floor
	<u>Day 5</u>						
			Understanding the industrial drawing				
			Generation of 3D model and casting model				
16	Tooling & Methods	Class room Generation of pattern model and core design 1 Hour	9.30 am to 10.30 am	Mr.N. Kandasamy / Mr. K.			
			Gating simulation			Dharmaraja	DISA
		Pattern manufacturing Pattern proving	Pattern manufacturing				Conference
			Pattern proving				Hall
	Fettling & Inspection		Degating	1 Hour	10.30 am to 11.30	Mr.N. Kandasamy	
17		Class room	Shot blasting			/ Mr. N.	
1,		Inspection Grinding/ rough boring Haridasan	Haridasan / Mr.				
		V	Visual inspection		uiii	A.K. Senthilkumar	

		Hardness, X-ray, MPI, Ultrasonic testing (UT)				
		Types of defects	30 Minutes	11.30 am to 12.00	Mr.N. Kandasamy / Mr. K.	
18 Rejection analysis & Corrective action	The state of the s	Analysis of defects				
		ivilliates	pm	Kumaravel		
19 Painting process	Painting process Class room	Phosphating	1 Hour	12.00 pm to 01.00	Mr.N. Kandasamy / Mr. N. Thirumoorthy	
		Dip painting, spray painting				
		Powder coating				
	Geomet coating, ED Coating		P	Tim amountiny		
Plant visit		Visit to Tooling & Methods, Fettling & Inspection, painting process	3 Hours	02.00 pm to 05.00 pm	Mr.N. Kandasamy& Team	Shop floor
	Painting process	& Corrective action Painting process Class room Class room	Rejection analysis & Corrective action Painting process Class room Class room Class room Phosphating Dip painting, spray painting Powder coating Geomet coating, ED Coating Visit to Tooling & Methods, Fettling &	Rejection analysis & Corrective action Class room Painting process Class room Class room Class room Phosphating Dip painting, spray painting Powder coating Geomet coating, ED Coating Visit to Tooling & Methods, Fettling & 3 Hours	Rejection analysis & Corrective action Class room Class room Class room Class room Phosphating Dip painting, spray painting Powder coating Geomet coating, ED Coating Plant visit Types of defects Analysis of defects Dip painting, spray painting Powder coating Geomet coating, ED Coating Visit to Tooling & Methods, Fettling & 1 Hour to 01.00 pm 12.00 pm 12.00 pm 10.00 pm	Rejection analysis & Corrective action Class room Class room Class room Painting process Class room Plant visit Class room Class room Class room Types of defects Analysis of defects Analysis of defects Corrective action Phosphating Dip painting, spray painting Powder coating Geomet coating, ED Coating Visit to Tooling & Methods, Fettling & 1 Hour Inspection, painting process Types of defects Analysis of d

SACLTrainingDetails

S.	N Name of the Industry	Total No. of Students	Accompany Staff Name	Duration of the Training	Academic Year
0	Sakthi Auto components Priva Limited, Perundurai, Erode.	te 15	Mr.K.Yokeshwaran AP/Auto	7.12.15 To 11.12.15	2015-2016

