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

"Industry Attachment Programme (IAP)" has been evolved to make the AutomobileEngineering 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 3rd& 4thsem – winter vacation	II year
Internship-I	2 weeks	Between 4th& 5thsem – summer vacation	II year
Training Module-II	5 days	Between 5th& 6thsem – winter vacation	III year
Internship-II & project identification	4 weeks	Between 6th& 7thsem – summer vacation	III Year
Training Module-III	5 days	Between 7th& 8thsem – winter vacation	IV Year
Internship-III & Project submission	12 weeks	During 8thsem	IV year

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

					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 visit		Visit to raw Material testing & inspection	3 Hours	02.00 pm to 05.00 pm	Mr.N. Kandasamy& Team	Plant visit
Day 3							
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	DISA Conference Hall
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	
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 visit		Visit to melting shop and Metallury Lab	3 Hours	02.00 pm to 05.00 pm	Mr.N. Kandasamy& Team	Plant visit
Day 4							
12	Sand Process	Class room	Sand mixture Sand preparation	1 Hour	9.30 am to 10.30 am	Mr.N. Kandasamy / Mr. K. Kumaravel	DISA Conference Hall

			Sand testing				
			Sand conveying				
13	Core making	Class room	Types of core making	1 Hour	10.30 am to 11.30 am	Mr.N. Kandasamy / Mr. Suganathan	
			Manufacturing of core dies				
			Core processing				
			Core handling				
14	Moulding process	Class room	Types of Moulding machines	1 Hrs 30 Min	11.30 am to 01.00 pm	Mr.N. Kandasamy / Mr. M. Kanagaraj /Mr. Sathish	DISA Conference Hall
			Moulding machine operation				
			Moulding process				
			Mould quality				
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
Day 5							
16	Tooling & Methods	Class room	Understanding the industrial drawing	1 Hour	9.30 am to 10.30 am	Mr.N. Kandasamy / Mr. K. Dharmaraja	DISA Conference Hall
			Generation of 3D model and casting model				
			Generation of pattern model and core design				
			Gating simulation				
			Pattern manufacturing				
			Pattern proving				
17	Fettling & Inspection	Class room	Degating	1 Hour	10.30 am to 11.30 am	Mr.N. Kandasamy / Mr. N. Haridasan / Mr. A.K. Senthilkumar	
			Shot blasting				
			Grinding/ rough boring				
			Visual inspection				

			Hardness, X-ray, MPI, Ultrasonic testing (UT)				
18	Rejection analysis & Corrective action	Class room	Types of defects Analysis of defects Corrective action	30 Minutes	11.30 am to 12.00 pm	Mr.N. Kandasamy / Mr. K. Kumaravel	
19	Painting process	Class room	Phosphating Dip painting, spray painting Powder coating Geomet coating, ED Coating	1 Hour	12.00 pm to 01.00 pm	Mr.N. Kandasamy / Mr. N. Thirumoorthy	
20	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
LUNCH TIME 01 PM to 2 PM							

SACLTrainingDetails

S.N	Name of the Industry	Total No. of Students	Accompany Staff Name	Duration of the Training	Academic Year
01	Sakthi Auto components Private Limited, Perundurai,Erode.	15	Mr.Gokulakannan AP/Auto	28.11.16 To 02.12.16	2016-2017


UNIVERSAL LENGTH MEASURING SYSTEM
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