



The Automotive Research Association of India

INTERNSHIP REPORT

Date: 22nd April to 28th May 2019

Time: 9.00 am- 04:00 pm

Name of the Organization: ARAI-FID

Venue: B-16/1, MIDC, Chakan, Mahalunge Ingale, Maharashtra 410501

Students: 4 Sem AND 6 Sem- **CHRIST (Deemed to be University)**

Faculty Members:

- | | | |
|---------------------|-----------------|-----------------------|
| • Dr K C Vora | Dr S A Patil | Mr Nilesh Sakle |
| • Mr K P Wani | Mr H J Gayen | Mr Mohd.R.B. Agrewale |
| • Dr Y K Bateshvar | Mr Aatmesh Jain | Mr Ramesh Batakurki |
| • Mr Sarjeel Sayyed | Mr Punit Kongi | Mr Pramod Hande |

Total Students' Present: 45

OBJECTIVE:

To give students of Automobile Engineering an overall view of Automotive Industry and showcasing testing facility and parameters at the ARAI plant.

Details of Internship:-

- 1) Industry Visit – 8 IV's
- 2) Theory Lectures – 10 days
- 3) Hands on Training - 7 days

1) INDUSTRIAL VISIT REPORT

INDUSTRIES VISITED

- VRDE
- Mahindra & Mahindra
- Case New Holland
- JCB
- Sany
- ARAI
- Endurance
- Sujan cooper

2) Theory Lectures

10 days theory classes scheduled to firstly refresh the basics of IC engine and then moving to advance learning.

The following are some of the topics covered in the internship period:- Automotive System – Overview, Engine Design and Development, Combustion In SI& CI, Automotive Transmission System, Alternate Fuels-Advance, NVH, Automotive Testing and certification, Automotive Electrical Systems, Microcontrollers & Communication Systems for Automobiles etc.

3. Activity Based Learning

This module is designed to give hands on experience for students to relate their classroom knowledge to practical applications.

Activities are as follows

- NVH experiments
- Arduino Board
- Four Board Teaching
- GT suite software introduction and problem solving
- Hyper mesh
- Engine Test Cell
- ASI – Presentations



Group photo with faculty and students