

# **NEW HORIZON COLLEGE OF ENGINEERING**

## **Department of Information Science and Engineering**

### **Report on Industrial Visit to Volvo Construction Equipments**

The Department of Information Science and Engineering organized an industrial visit to Volvo Construction Equipments, Bangalore on the 19th of October, 2019. A total of 22 students from the 3<sup>rd</sup> semester along with the faculty coordinator Prof Vandana C.P had been a part of this Industrial visit.

The welcome speech was given by Mr. Raghavendra Chief Operation manager at Volvo Construction Equipments. He highlighted basic core values of Volvo Groups- Quality, Safety, Environmental care. Any feature added/deleted in Volvo Groups Product line must adhere to these core values globally.

The theme setting for the Industry visit was set by him highlighting the importance of automation in industrial pipeline. Students got exposure to various high weight construction machineries, road machines, off-road machines which are the premiere products of Volvo Construction and Equipment Group. He demonstrated how these equipments add value to other engineering filed like Submarine, Dam construction, Road and Rural development.

The latest R&D work on Intelligent Machines, Electric Machines, Connected machine segments were illustrated by the Volvo team. Students understood the application of IT technology domains like machine learning, communication protocols, fabrication in the automotive industries. Intelligent machines which are the future autonomous machine trained as per the construction requirement makes autonomous decisions. Electric Machines aimed at reducing the CO<sub>2</sub> emission and total CO<sub>2</sub> generation will be boon to environmental crisis. Connected machines which can be remotely monitored and act as messaging agents in a whole network of intelligent systems.

Various machineries meant for construction like Road rollers, Pavevers, Double drum road rollers, Airway pavement pavevers, Excavators, hollers were explained with their features and capacities. Volvo Groups, a Sweden based company has its main product lines in India, South Asia, Africa leading the market with the motto of sustainable world for everyone.

Followed by this elaborate session, students had an interactive question answer discussion. Students were made to follow the strict safety rules through a demonstrative video. Followed by which they had to wear safety shoes, helmets to enter their engineering workshop. Students observed the production line manufacturing of the various components in these engineering workshops. The team explained the various phase of their production line and the automation process.

The team definitely gave the students a broader perspective on how they need to work towards developing a successful career. Mr. Raghavendra also gave an insight to the students on how to make visibility in this competitive world.

Students learned the importance of digitalization and automation using the latest technology of Internet of things (IoT). Thus, this Industrial Visit was quite a remarkable one that allowed the aspiring engineers to have an experience of Industry 4.0 revolution. The buddy engineers understood the automation and digitalization of product line system using digital technologies.



**Students and Faculty coordinator at Volvo Group, Bangalore**



**Glimpses of the session at Volvo**



**Students following safety rules at Volvo Workshop**



**Students with Mr. Raghavendra, Operation Excellence, Volvo Construction Equipments, Peenya**



**Industrial visit at Volvo Group (Construction Equipments) at Bangalore**

### List of Participants

1NH18IS075	PINAKI MUKHERJEE
1NH18IS076	POOJA T
1NH18IS077	PRAJWAL P
1NH18IS078	PRAKRITI SHARMA K P

1NH18IS079	PUNITH KUMAR S
1NH18IS080	PUSHKAR SINHA
1NH18IS081	R H SHRAVYA
1NH18IS082	RAHUL V
1NH18IS084	REEM FATIMA AZEEZ
1NH18IS085	RIA CAROL MOHAN
1NH18IS086	RITOM TAMULI
1NH18IS088	VASANTH S
1NH18IS090	SAGAR SHANKAR
1NH18IS092	SAKSHI ARYAL
1NH18IS093	SALONI K
1NH18IS094	SAMRUDH G R
1NH18IS095	SANCHITHA B S
1NH18IS096	SANGEETHA D
1NH18IS097	SANJANA A
1NH18IS098	SATHMIKA.R
1NH18IS099	SAVEEN C V
1NH18IS100	SEELA VENKATA CHARAN REDDY
1NH18IS101	SHAIK NYAMATHULLA