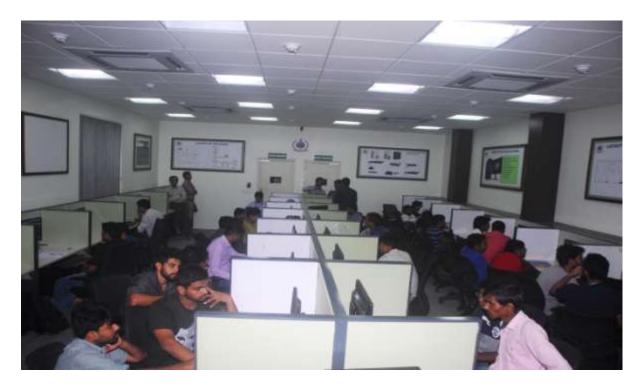
1.	Lab Name	Mechanical System Design & Analysis Lab
2.	Lab-Incharge	Dr. Sunil Nimje
3.	Associated Members to the Lab: RAs, PhD Scholars/ Technical Staff	Sr. Lab Asst. : Mr. Abhijeet Kamble
4.	Contact Details	020 2430 4203
5.	Infrastructure Specs (H/W, S/W,)	Hardware:
		■ HPC Cluster
		Head Node (IBM System x3550 M4, Intel Xeon Processor E5-2650 v2 8C 2.6GHz)
		o 20MB Cache, 16GB (1x16GB, 2Rx4, 1.5V)
		o Compute Nodes (16Nos). (IBM System x3550 M4, Intel Xeon Processor E5-2650 v2 8C 2.6GHz 20MB Cache, 16GB (1x16GB, 2Rx4, 1.5V))
		Storage Server (21TB storage capacity)
		■ High End Computer Workstations (30 Nos)
		Integrated Building Management System (IBMS): used for monitoring and controlling of building management system such as Air-conditioning system, UPS, DG sets / Electrical, Fire System and Access Control etc. Also controls ups and battery voltage with auto shutdown for cluster racks
		► Conference Hall
		■ Precision AC Systems for continuous cooling of cluster
		■ Biometric Access control system
		■ Fire Detection and Alarm System along with Fire Protection System
		Water Leakage Detection System and Rodent Repellent system
		■ 125 KVA Diesel Generator
		· ·
		List of Softwares:
		ANSYS Academic Research Version
		■ ABAQUS Academic Research Version
		■ Fluent Software
		■ LS-DYNA Prepost
		■ FE Safe
		Design Optimization Modules (ISIGHT,TOSCA)
		■ MSC Suite of Softwares-2017
		MSC Nastran
		♣ ADAMS
		Patron Laminate Modeler
		MSC Fatigue
		Solid Works Education Edition



Mechanical System Design & Analysis Lab



Conference Hall



HPC Cluster