

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,...)	<p>Hardware:</p> <ul style="list-style-type: none"> ■ HPC Cluster <ul style="list-style-type: none"> ○ Head Node (<i>IBM System x3550 M4, Intel Xeon Processor E5-2650 v2 8C 2.6GHz</i>) ○ <i>20MB Cache, 16GB (1x16GB, 2Rx4, 1.5V...)</i> ○ Compute Nodes (16Nos). (<i>IBM System x3550 M4, Intel Xeon Processor E5-2650 v2 8C 2.6GHz 20MB Cache, 16GB (1x16GB, 2Rx4, 1.5V...)</i>) ○ <i>Storage Server (21TB storage capacity)</i> ■ High End Computer Workstations (30 Nos) ■ Integrated Building Management System (IBMS) : <i>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</i> ■ 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 ■ <p>List of Softwares:</p> <ul style="list-style-type: none"> ■ 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 <ul style="list-style-type: none"> ✚ MSC Nastran ✚ ADAMS ✚ Patron Laminate Modeler ✚ MSC Fatigue ■ Solid Works Education Edition



Mechanical System Design & Analysis Lab



Conference Hall



HPC Cluster