

Laboratory Name	Computer Configuration with Model	Date of Purchase	Qty
CAD Lab	Wipro Intel i5- 3470. 3.20 Ghz processor, 8 GB RAM, 1 TB HDD with 2 GB Graphics card and DVD R/W	7/10/2013	33
	HP Compaq 620 Intel core 2duo, 320 GB HD, 2 GB DDR RAM,LCD Monitor, Keyboard with Mouse	19/2/2009	32





VALLIAMMAI ENGINEERING COLLEGE
 889 Nagar, Karaikal - 605002
DEPARTMENT OF MECHANICAL ENGINEERING
CAD - CAM LABORATORY

LIST OF EQUIPMENT

S. No.	Equipment
1.	Desktop PC
2.	HP monitor 19" and 22" size
3.	Mouse
4.	Keyboard
5.	Printer
6.	Scanner
7.	UPS
8.	Software
9.	Network
10.	Internet
11.	Power supply
12.	Mouse
13.	Keyboard
14.	Printer
15.	Scanner
16.	UPS
17.	Software
18.	Network
19.	Internet
20.	Power supply
21.	Mouse
22.	Keyboard
23.	Printer
24.	Scanner
25.	UPS
26.	Software
27.	Network
28.	Internet
29.	Power supply
30.	Mouse
31.	Keyboard
32.	Printer
33.	Scanner
34.	UPS
35.	Software
36.	Network
37.	Internet
38.	Power supply
39.	Mouse
40.	Keyboard
41.	Printer
42.	Scanner
43.	UPS
44.	Software
45.	Network
46.	Internet
47.	Power supply
48.	Mouse
49.	Keyboard
50.	Printer
51.	Scanner
52.	UPS
53.	Software
54.	Network
55.	Internet
56.	Power supply
57.	Mouse
58.	Keyboard
59.	Printer
60.	Scanner
61.	UPS
62.	Software
63.	Network
64.	Internet
65.	Power supply
66.	Mouse
67.	Keyboard
68.	Printer
69.	Scanner
70.	UPS
71.	Software
72.	Network
73.	Internet
74.	Power supply
75.	Mouse
76.	Keyboard
77.	Printer
78.	Scanner
79.	UPS
80.	Software
81.	Network
82.	Internet
83.	Power supply
84.	Mouse
85.	Keyboard
86.	Printer
87.	Scanner
88.	UPS
89.	Software
90.	Network
91.	Internet
92.	Power supply
93.	Mouse
94.	Keyboard
95.	Printer
96.	Scanner
97.	UPS
98.	Software
99.	Network
100.	Internet

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SIMULATION AND ANALYSIS LABORATORY

LIST OF EXPERIMENTS

A. SIMULATION

1. SolidWorks basic, modeling with features, Grouping Features of new models and new templates.
2. Use of the link to solve simple problems in vibration.
3. Multibody Simulation using Multi body Dynamic software.

B. ANALYSIS

1. Force and stress analysis using link elements in Trusses, cables etc.
2. Stress and deflection analysis to beams with different support conditions.
3. Stress analysis of flat plates and single shells.
4. Stress analysis of cast - composite components.
5. Thermal stress and heat transfer analysis of plates.
6. Thermal stress analysis of cylindrical shells.
7. Torsion analysis of spring-mass systems.
8. Modal analysis of Beams.
9. Harmonic treatment and spectrum analysis of single system.

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DEPARTMENT OF MECHANICAL ENGINEERING
CAD - CAM LABORATORY (LIST OF EXPERIMENTS)

LIST OF EXPERIMENTS

1. Introduction of 2D Modeling software (exercise of an existing work or re-creating several features using its multiple options)
 2. Flange Coupling
 3. Flange Nut
 4. Screw Jack
 5. Latch Bolt
 6. Unthreaded Bolt
 7. Machine Stop
 8. Bolted Joint
 9. Crankshaft
 10. Safety Valve
 11. Non-reverse valve
 12. Connecting rod
 13. Piston
 14. Crankshaft
2. Manual Part Programming
 - 3) Part Programming: CNC Machining Centre a) Linear Cutting, b) Circular cutting, c) Control Cycle Operations.
 - 4) Part Programming: CNC Turning Centre a) Straight, Taper and Radius Turning, b) Thread Cutting, c) Ramp and Round Forming Cycle, d) Drilling and Tapping Cycle.
3. Computer Aided Part Programming
 - 4) G-Code and Part program generation using CAM packages.
 - 5) Application of CAPP in Machining and Turning Centre.







