



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S
RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)



Accredited by NAAC



Approved by AICTE

DEPARTMENT OF MECHANICAL ENGINEERING

NAME OF THE LAB: FINITE ELEMENT ANALYSIS LAB

LAB CODE: 17MECC90

Sl.No	Name of the Experiment	Video Link
1	Study of analysis and its benefits	https://www.youtube.com/watch?v=Rv7vfpUxh1w&t=9s
2	Stress analysis of cantilever and simply supported beam	https://youtu.be/lw7Rvso-XdI
3	Application of distributed loads	https://www.youtube.com/watch?v=bd1UhM8E0wQ
4	Nonlinear analysis of cantilever beam	https://www.youtube.com/watch?v=e47YiydaTtY-EX.NO-4&feature=youtu.be
5	Buckling analysis	https://www.youtube.com/watch?v=1TDiXYrsOx8
6	Stress analysis of axi-symmetry vessels	https://www.youtube.com/watch?v=IqSA_ewtyJ0
7	Static analysis of two dimensional truss	https://youtu.be/8No3ZtrmrH0
8	Transient thermal conduction	https://www.youtube.com/watch?v=Jf1XCkOpEek&t=64s
9	Conductive heat transfer analysis	https://www.youtube.com/watch?v=NpShQe-DkiM&t=89s
10	Plane stress bracket	https://www.youtube.com/watch?v=nmv0iIJJ0qA-EX.NO-10&feature=youtu.be
11	Modal analysis of simply supported beam	https://youtu.be/de-gNI3f-yU
12	Harmonic analysis of a cantilever beam	https://youtu.be/TdoNzHPvwUg