



SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru - 562 157

Department of Mechanical Engineering

Subject: Modeling and Analysis Laboratory

Semester: VI

SI No	Experiment	YouTube Link
1	Stress analysis of bar subjected to axial load (Constant cross section area)	https://youtu.be/DT5tENIOHnU
2	Stress analysis of stepped bar subjected to axial load	https://youtu.be/6ztKgTwEsxE
3	Stress analysis of bar subjected to axial load with deformation allowed at one end	https://youtu.be/xeJz6xoYzJs
4	Analysis of beam subjected to uniformly distributed load	https://youtu.be/r0InwnVVKHc
5	Modal analysis of cantilever beam	https://youtu.be/LZz0_IC9IAE
6	Analysis of trusses – Four bar	https://youtu.be/ArbanrqwC1o
7	Analysis of railroad bridge	https://youtu.be/IXFN0-yLAI0
9	Thermal analysis with uniform heat generation	https://youtu.be/3ayxSwCb588
10	Stress analysis of a rectangular plate with a circular hole	https://youtu.be/ydwuez2b4ns



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Subject: Heat Transfer Laboratory

Semester: VI

SI No	Experiment	YouTube Link
1	Conduction	https://www.youtube.com/watch?v=y-ptY0YG9RI
2	Convection	https://www.youtube.com/watch?v=Xp1xQXQ2J4k
3	Radiation	https://www.youtube.com/watch?v=77XfehtOgsQ
4	Difference between parallel flow and counter-flow heat exchanger : basic heat and mass transfer lecture video	https://www.youtube.com/watch?v=9ZKMinY379E
5	Latent heat	https://www.youtube.com/watch?v=hfeBHx6bD3k&list=RDCMUCCmNq4uCgWjpvoTpbphih3g&index=14
6	Heat transfer through composite wall	https://www.youtube.com/watch?v=HbzUeBCmjNQ
7	Heat transfer in natural convection	https://www.youtube.com/watch?v=W1yJwreRYwg&t=43s
8	Heat transfer in forced convection apparatus	https://www.youtube.com/watch?v=B-rFIdOi-No&t=108s
9	Stefan- Boltzmann apparatus	https://www.youtube.com/watch?v=MUAc_pAMNig
10	Emissivity measurement apparatus	https://www.youtube.com/watch?v=pbCf4507QvM
11	Vapour compression refrigeration test rig	https://www.youtube.com/watch?v=v36FiXcxt0k&list=PLkUEX3IbW7lfdC2ieft_9FH5zAAvUfZAn&index=7 https://www.youtube.com/watch?v=TkOLZkY4_ks&list=PLkUEX3IbW7lfdC2ieft_9FH5zAAvUfZAn&index=8
12	Parallel and counter flow heat exchanger	https://www.youtube.com/watch?v=w9A_0IIJrdg



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Subject: Foundry and Forging Lab
Semester: IV

SI No	Experiment	You Tube Link
1	Foundry Lab – Fundamentals	https://www.youtube.com/watch?v=ntSzQM21anQ
2	Foundry Shop / Casting Tools	https://www.youtube.com/watch?v=z_ggHbN3NtU
3	How to make green sand mould ,demo	https://www.youtube.com/watch?v=gI9v7HVBROQ
4	How to make green sand mould ,demo	https://www.youtube.com/watch?v=gI9v7HVBROQ
5	Foundry Sand Casting Created a Mould Cavity Using a Split Pattern	https://www.youtube.com/watch?v=oOOg4eGLuwg
6	Sieve Analysis	https://www.youtube.com/watch?v=AM-NrQoRIYY
7	Working of Sand Rammer in sand testing	https://www.youtube.com/watch?v=FuJbxesJK8I
8	Sieve Shaker Working Video	https://www.youtube.com/watch?v=NltqDoq7dMw
9	Sand rammer, permeability and strength machine demo	https://www.youtube.com/watch?v=2qEqoM_rCOM
10	Permeability test of foundry Moulding and core sand	https://www.youtube.com/watch?v=8Pj4ZSSxORo
11	Compression strength testing of the sand specimen	https://www.youtube.com/watch?v=JuXhwXhMiWo
12	Foundry Creating a Mould Cavity Without using a pattern	https://www.youtube.com/watch?v=9qxBIInnj6C0
13	Standard Method for Sieve Analysis of Fine and Coarse Aggregates	https://www.youtube.com/watch?v=3Xqq1cxhD-s
14	Blacksmith (Forging) Tools	https://www.youtube.com/watch?v=sprcF5w9Fro
15	Smithy Shop or Forging Lab	https://www.youtube.com/watch?v=c-FN4M77qyA



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Department of Mechanical Engineering

Subject: Mechanical and Metrology lab

Semester: IV

SI No	Experiment	Links of Metrology lab
1	Electronic comparator	https://youtu.be/eM3czHLb0jA
2	Sine bar and sine center	https://youtu.be/GTLIxFEV6iA
3	Optical profile projector	https://youtu.be/P4Fj2-D1iKk
4	Calibration of pressure gauge	https://youtu.be/Y-cj5M5OX1w
5	Calibration of LVDT	https://youtu.be/3CFXzctvHAo
6	Calibration of lather machine	https://youtu.be/5--saq-oYBE



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Sub: Engineering Graphics
Semester: II

Sl No	Chapters	YouTube Link
1	Solid Edge	https://www.youtube.com/watch?v=xcuJ2SiOE7Y&list=PLqivUu0_booSgRnTEtpTNBUykU6pjbBLv https://www.youtube.com/watch?v=hKSJYBhhqds
2	Points	https://www.youtube.com/watch?v=-QWT0BJ2-Sk https://www.youtube.com/watch?v=a_IQ3pmVYIk&list=PLlhUrsYr8yHxEk_Jv8yOatn3Dcr6KYK3j&index=7
3	Lines	https://www.youtube.com/watch?v=FvfNvKDHalo https://www.youtube.com/watch?v=RzHeGbbe4Dc
4	Planes	https://www.youtube.com/watch?v=IkK5c9yZwFk&list=PLqivUu0_booTFM4UyKLD-fBuwcOSkjIHg
5	Solids	https://www.youtube.com/watch?v=koE-8CXv-Gc&list=PL8D3o_7_i13m-_WuAjGzeXPcc-S0quQeA https://www.youtube.com/watch?v=Lx1Rur18nVw&list=PLqivUu0_booTIAXUSRSdizoSGv9BhXZFs
6	Isometric Projection	https://www.youtube.com/watch?v=9BMOOM1MeVw&list=PL8D3o_7_i13m-_WuAjGzeXPcc-S0quQeA
7	Development of Surfaces	https://www.youtube.com/watch?v=ti6N02LQtA0&list=PLqivUu0_booSmWDomQGloQIZqb1Kus22R