



SREE SAKTHI ENGINEERING COLLEGE

TNEA Admission Code **2673**

OOTY MAIN ROAD, KARAMADAI, | MOB : +91 92445 04444, +91 92445 02277
COIMBATORE- 641104. INDIA | Web : www.sreesakthi.edu.in

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2.3.2

**TEACHERS USE ICT
ENABLED TOOLS FOR
EFFECTIVE TEACHING-
LEARNING PROCESS**



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

2.3.2 Teachers use ICT enabled tools for effective teaching learning process

Knowledge, strategies, methods, and actions that produce positive student outcomes are those of an effective teacher. Effective teachers use their knowledge to enhance learning and have a good effect on their students. These positive results are frequently ones that are simple to measure, usually through a summary assessment.

1. NPTEL videos
2. Coursera
3. Google classrooms
4. Faculty participation in online course
5. E-Sources
6. Projectors in classrooms
7. Virtual based laboratory

1. NPTEL VIDEOS

If already registered, click to check your payment status

Course outline

How does an NPTEL online course work?

Week 0

Week 1

- Introduction to Smart Grid - I
- Introduction to Smart Grid - II
- Architecture of Smart Grid System
- Standards for Smart Grid System
- Elements and Technologies of Smart Grid System-I
- Quiz: Week 1: Assignment 1
- Solution for Week 1

Introduction to Smart Grid - I

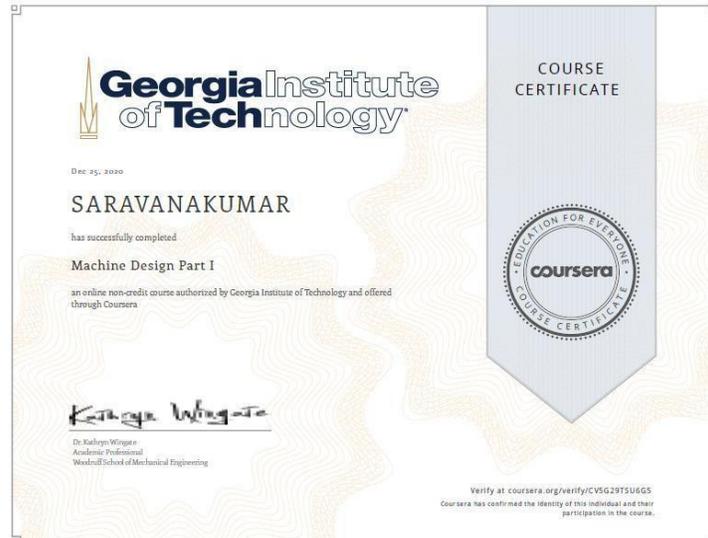
- Electrical Grid Components
- Vertical structure

Component	Sub-components
Generation	• Thermal, Hydro, Nuclear, RES
Transmission	• HVAC • HVDC
Distribution	• AC • DC
Consumers	• Industrial • Commercial • Domestic

Activate Windows
Go to PC settings to activate Windows

Students are actively attending swayam course.

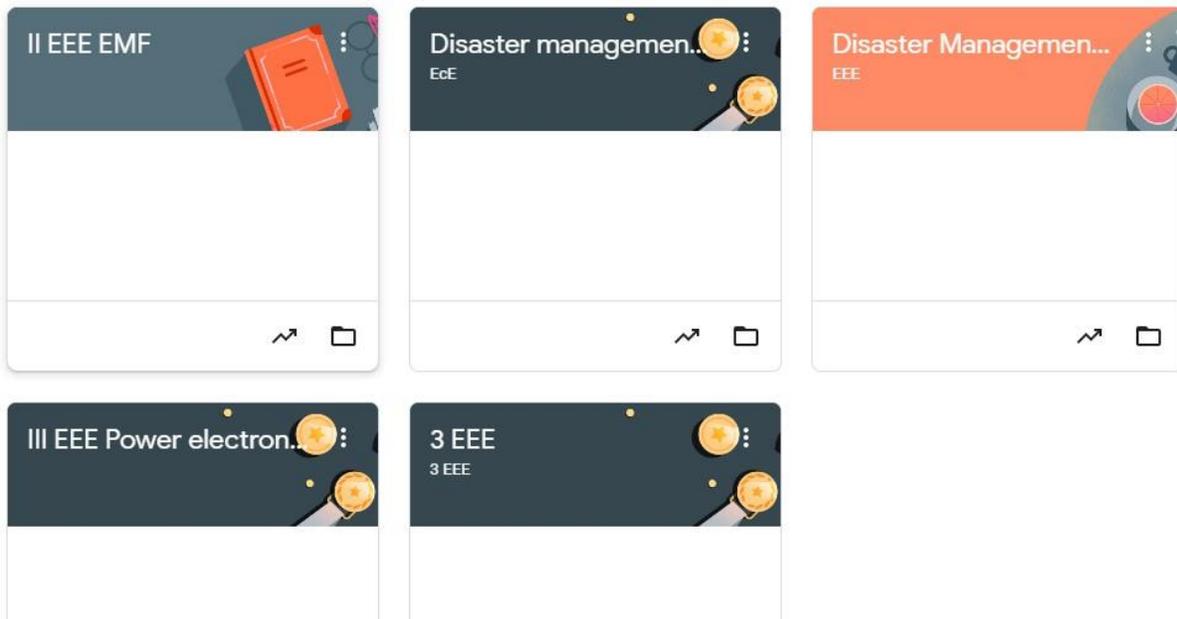
2. COURSERA:



Student from third year completed the coursera online course

3. GOOGLE CLASSROOMS

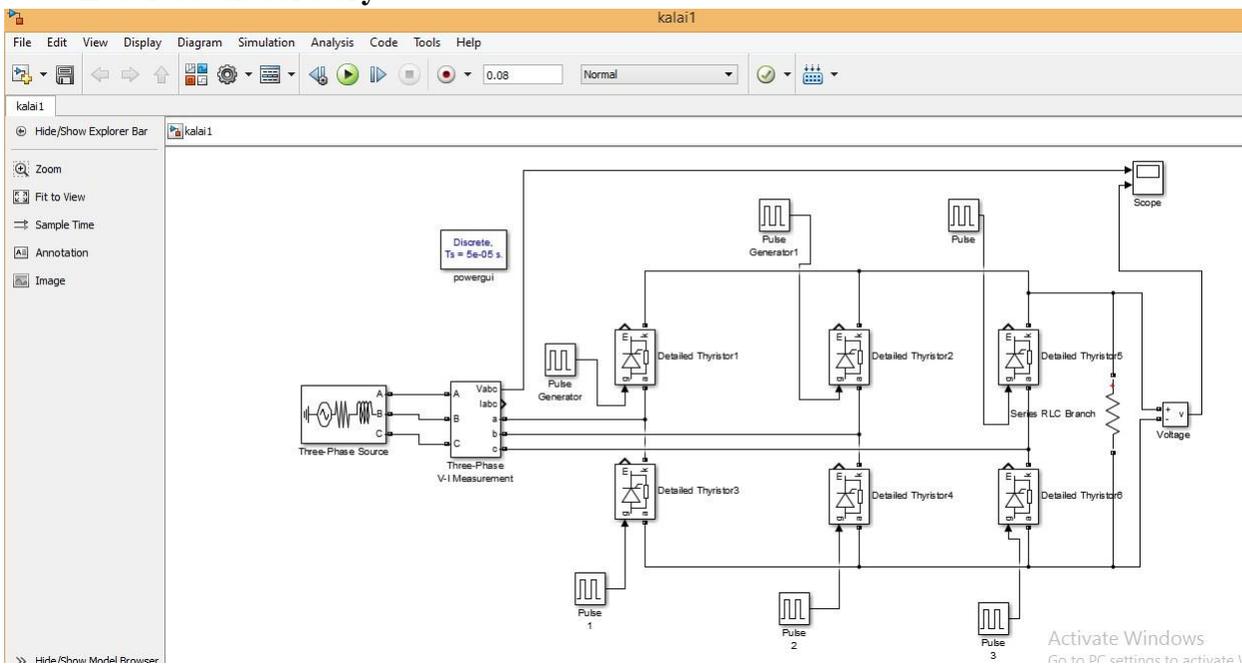
Each batch of the students have an individual college email ID. All course contents are uploaded there.



6. Projectors in classrooms



7. Virtualbasedlaboratory




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Dr. R. PRABHU
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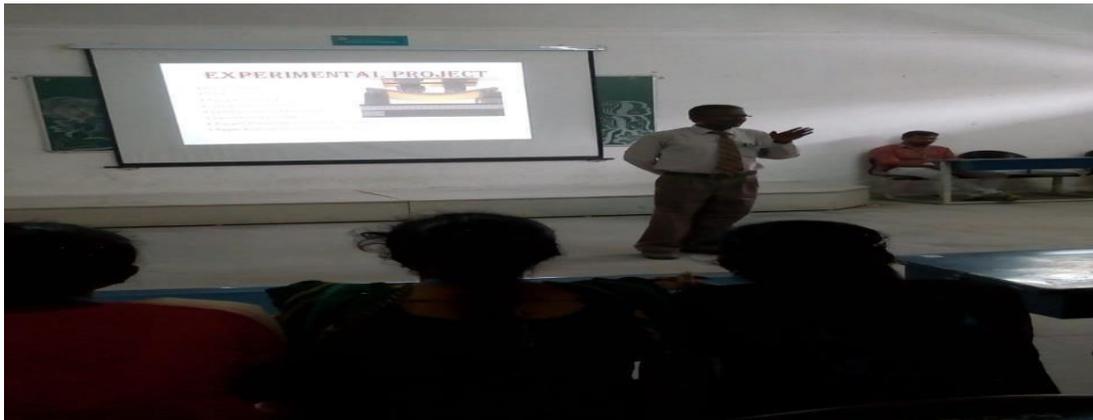
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

2.3.2	ICTENABLEDPHOTO
	ICTENABLEDSMARTCLASS ROOM PHOTO
	POWER SYSTEM SIMULATIONLAB
	GOOGLECLASSROOM
	GOOGLEMEETCLASS PHOTOS
	VIRTUALLABLINKS
	E-LEARNINGWEBSITE

ICTENABLEDPHOTO



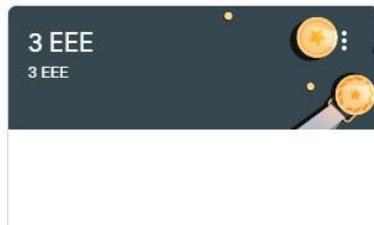
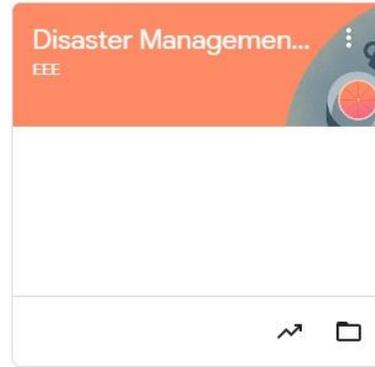
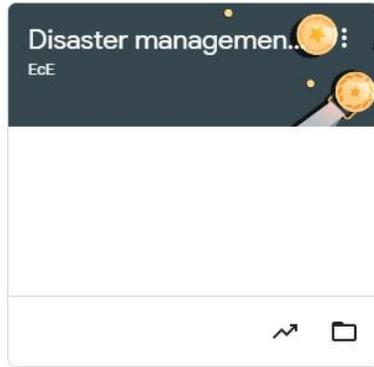
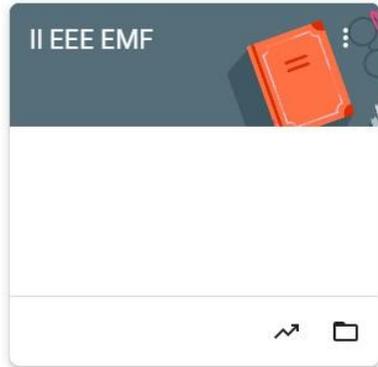
ICTENABLEDSMARTCLASSROOMPHOTO



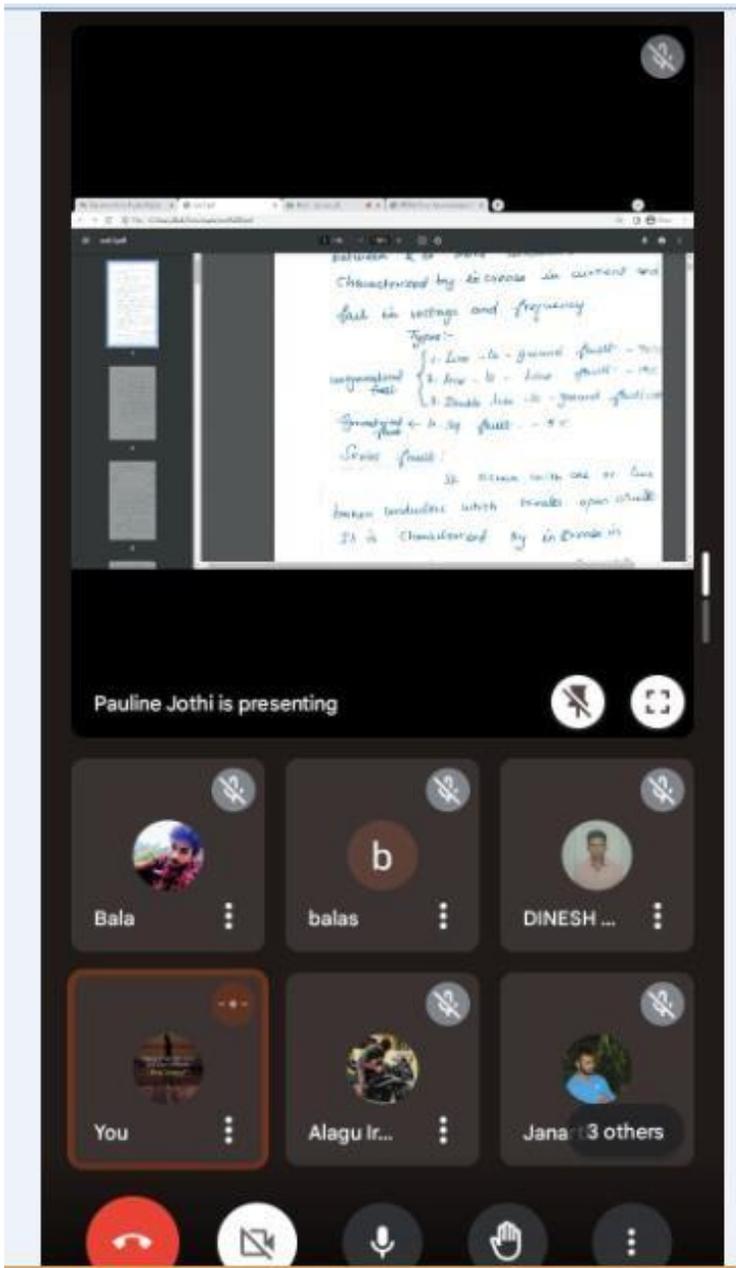
POWERSYSTEMSIMULATIONLAB



GOOGLECLASSROOM



GOOGLEMEETCLASSPHOTOS



VIRTUALLABLINKS
ELECTRIC CIRCUITS LABORATORY

Sl.NO	NAME OF THE EXPERIMENT	HyperLink
1	Verification of ohm's law	https://www.youtube.com/watch?v=2c1z4pLsl_w
2	Verification of Kirchoff's law	https://www.youtube.com/watch?v=fdqnYttEzPU
3	Verification of thevenin theorem	https://www.youtube.com/watch?v=CK832FtX220
4	Verification of Norton's theorem	https://www.youtube.com/watch?v=jym3HnLEN1U
5	Verification of Maximum power theorem	https://www.youtube.com/watch?v=aMIDH7S_nbM
6	Verification of superposition theorem	https://www.youtube.com/watch?v=09HeKuPbHKw
7	Frequency response of RLC circuit.	https://www.youtube.com/watch?v=LlZSPrdzSvM
8	Frequency response of series resonance circuit.	https://www.youtube.com/watch?v=r487fbbLoMY
9	Frequency response of parallel resonance circuit.	https://www.youtube.com/watch?v=r487fbbLoMY
10	Experimental verification of three phase balanced and unbalanced star delta network circuit.	https://www.youtube.com/watch?v=ECD4IyB8OF0
11	Simulation of thevenin's theorem	https://www.youtube.com/watch?v=ECD4IyB8OF0
12	Simulation of maximum power transfer theorem	https://www.youtube.com/watch?v=pVsS1C6iTCQ

ELECTRICAL MACHINES I LABORATORY

VirtualLabLink:

<u>SLN</u> <u>O.</u>	<u>NAMEOFTHEEXPERIMENT</u>	<u>HyperLink</u>
<u>1</u>	<u>Loadtestonshuntgenerator</u>	https://www.youtube.com/watch?v=35wisVc70PM
<u>2</u>	<u>Loadtestonseriesgenerator</u>	https://www.youtube.com/watch?v=Wbh4N7Jy5mQ
<u>3</u>	<u>Loadtestonseriesmotor</u>	https://www.youtube.com/watch?v=WLqnGxs3kiQ
<u>4</u>	<u>Loadtestoncompoundgenerator</u>	https://www.youtube.com/watch?v=myJYC-eitto
<u>5</u>	<u>Loadtestoncompoundmotor</u>	https://www.youtube.com/watch?v=6lkkZxywmBg
<u>6</u>	<u>Loadtestonseriesmotor</u>	https://www.youtube.com/watch?v=vKgEwQzy64U
<u>7</u>	<u>HopkintonestonDCshuntmotor</u>	https://www.youtube.com/watch?v=wI0-W9wkH4Q
<u>8</u>	<u>Loadtestonsinglephase transformers</u>	https://www.youtube.com/watch?v=-NRYpHOpP8Y
<u>9</u>	<u>Loadtestonthreephase transformers</u>	https://www.youtube.com/watch?v=LqCeABXf_fo
<u>10</u>	<u>Sumpner'stestonsinglephase transformers</u>	https://www.youtube.com/watch?v=R8-SyP0r_0k

POWER ELECTRONICS LABORATORY

VirtualLabLink:

SI.NO	NAMEOFTHEEXPERIMENT	HyperLink
1	Characteristicsof SCR	https://www.youtube.com/watch?v=uKHuLnF9ALc
2	Characteristicsof TRIAC	https://www.youtube.com/watch?v=mMQTYkQTtKE
3	Characteristicsof MOSFET	https://www.youtube.com/watch?v=kxhYFIA2GK4
4	Characteristicsof IGBT	https://www.youtube.com/watch?v=HI4Z6imxUIM
5	StepupMOSFETbasedchopper	https://www.youtube.com/watch?v=OG6uJnxJDTs
6	StepdownMOSFETbased chopper	https://www.youtube.com/watch?v=dOxQgoTISs0
7	IGBTbasedsinglephaseinverter	https://www.youtube.com/watch?v=XdCqXz0EJuk
8	IGBTbasedthreephaseinverter	https://www.youtube.com/watch?v=OAMeC7ozcm0
9	Simulationofsinglephasefull converter	https://www.youtube.com/watch?v=IZVEPqbZYtU&t=524s
10	Simulationofthreephasefull converter	https://www.youtube.com/watch?v=2FtlC714kMQ
11	SimulationofDC-DCconverter	https://www.youtube.com/watch?v=Y6R445nQsFM
12	SimulationofACVoltagecontroller	https://www.youtube.com/watch?v=D5zGfbnAddc
13	Simulationofthreephasefull converter	https://www.youtube.com/watch?v=AX-EXmKWAVM

E-LEARNING WEBSITE

1. Nptel
2. Swayam
3. Mook
4. Udemy
5. Edx
6. Alison




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DEPARTMENT OF CIVIL ENGINEERING

2.3.2	ICTENABLEDPHOTO
	ICTENABLEDSMARTCLASS ROOM PHOTO
	COMPUTER LAB
	GOOGLECLASSROOM
	GOOGLEMEETCLASS PHOTOS
	VIRTUALLABLINKS
	E-LEARNINGWEBSITE

ICT ENABLED PHOTO



ICT ENABLED SMART CLASSROOM PHOTO



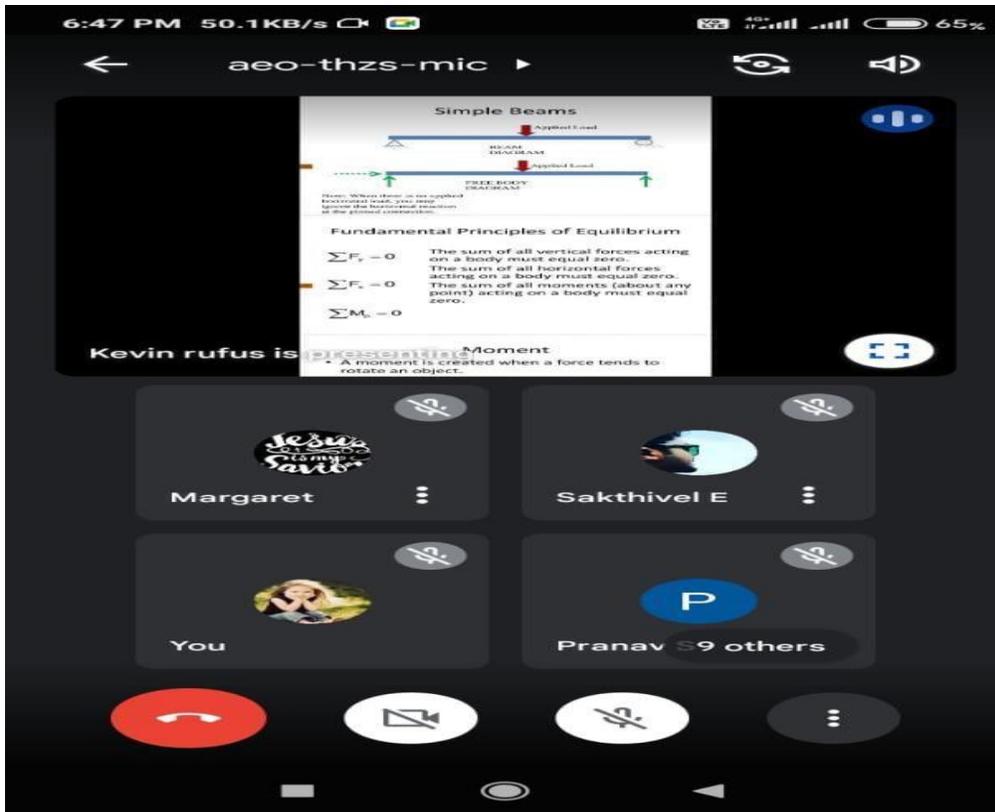
COMPUTER LAB



GOOGLE CLASSROOM



GOOGLE MEET CLASS PHOTOS



VIRTUAL LAB LINKS

CE8512-WATER AND WASTE WATER ANALYSIS LABORATORY

Sl.NO	NAME OF THE EXPERIMENT	HyperLink
1	Determination of PH, Turbidity and Conductivity	https://www.youtube.com/watch?v=4ociAQoDCW0 https://www.youtube.com/watch?v=LeKqhMqEoKQ https://www.youtube.com/watch?v=WhyMOVvAu3s
2	Determination of Hardness	https://www.youtube.com/watch?v=Sa0WfA9UGG0
3	Determination of Alkalinity and Acidity	https://www.youtube.com/watch?v=zXvEmlFqicw https://www.youtube.com/watch?v=UL56LrTKT
4	Determination of Chlorides	https://www.youtube.com/watch?v=KTWxG1uUT-0
5	Determination of Phosphates and Sulphates	https://www.youtube.com/watch?v=Digxp7Hb5Q https://www.youtube.com/watch?v=tU36Sqsqv0
6	Determination of Iron and Fluoride	https://www.youtube.com/watch?v=QoR2X2Jrc8c https://www.youtube.com/watch?v=lclKhNdKEUo
7	Determination of optimum coagulant dosage	https://www.youtube.com/watch?v=Y8faha-CEtM
8	Determination of residual chlorine and available chlorine in bleaching powder	https://www.youtube.com/watch?v=zelROlmDd https://www.youtube.com/watch?v=2KC1SGIMU4
9	Determination of oil and grease	https://www.youtube.com/watch?v=yxDQm9Ge8Z8&t=103s
10	Determination of suspended, settleable, volatile and fixed solids	https://www.youtube.com/watch?v=GJSeDeo-0 https://www.youtube.com/watch?v=WsRxE2IwVmk
11	Determination of Dissolved Oxygen and BOD for the given sample	https://www.youtube.com/watch?v=h4fCknb4Y5I https://www.youtube.com/watch?v=yq7lSeCi6uo
12	Determination of COD of given sample	https://www.youtube.com/watch?v=xZu8GCCejc
13	Determination of SVI of biological sludge and microscopic examination	https://www.youtube.com/watch?v=GTLKoGGo0dM https://www.youtube.com/watch?v=l8xf1Hig8H0
14	Determination of MPN index of given water sample	https://www.youtube.com/watch?v=csi82oWy7hM
15	Determination of Ammonia Nitrogen in wastewater	https://www.youtube.com/watch?v=h84cOeJNSC0

HYDRAULIC ENGINEERING LABORATORY

Virtual Lab Link:

<u>SL.N O.</u>	<u>NAME OF THE EXPERIMENT</u>	<u>HyperLink</u>
<u>1</u>	<u>Calibration of Rotameter</u>	https://www.youtube.com/watch?v=6CdO9inzSRQ
<u>2</u>	<u>Calibration of Venturimeter/ Orificemeter</u>	https://www.youtube.com/watch?v=3wfUev6TQv0&feature=youtu.be https://www.youtube.com/watch?v=FmI92OGnj7I
<u>3</u>	<u>Bernoulli's Experiment</u>	https://www.youtube.com/watch?v=kPu9KO3TI28 https://www.youtube.com/watch?v=UJ3-Zm1wblQ&feature=youtu.be
<u>4</u>	<u>Determination of friction factor in pipes</u>	https://www.youtube.com/watch?v=OyygOL8I09U
<u>5</u>	<u>Determination of minor losses</u>	https://www.youtube.com/watch?v=hNtQMu57j44
<u>6</u>	<u>Characteristics of Centrifugal pumps</u>	https://www.youtube.com/watch?v=gk15BTzjggg
<u>7</u>	<u>Characteristics of Gear pump</u>	https://www.youtube.com/watch?v=qow9OaUdt6U
<u>8</u>	<u>Characteristics of Submersible pump</u>	https://www.youtube.com/watch?v=WVAjwjQeE68
<u>9</u>	<u>Characteristic of Reciprocating pump</u>	https://www.youtube.com/watch?v=s6Rlx0SL3C8&feature=youtu.be
<u>10</u>	<u>Characteristics of Pelton wheel turbine</u>	https://www.youtube.com/watch?v=N_iAwHhf4FA
<u>11</u>	<u>Characteristic of Francis turbine/ Kaplan turbine</u>	https://www.youtube.com/watch?v=Tp8h1G4m434 https://www.youtube.com/watch?v=V2kB9NdsaN8
<u>12</u>	<u>Determination of Metacentric height of floating bodies</u>	https://www.youtube.com/watch?v=QUgXf2Rj2YQ&feature=youtu.be
<u>13</u>	<u>Flow through Orifice, Mouthpiece and Notches</u>	https://www.youtube.com/watch?v=Y5k4vxoztFo

SOIL MECHANICS LABORATORY

VirtualLabLink:

SI.NO	NAMEOFTHEEXPERIMENT	HyperLink
1	Specificgravityofsoilsolids	https://www.youtube.com/watch?v=hNNilk-OKaw
2	Grainsizedistribution–Sieve analysis	https://www.youtube.com/watch?v=CAezS3mPzOc
3	Grainsizedistribution-Hydrometeranalysis	https://www.youtube.com/watch?v=78sKJKsaUvY
4	LiquidlimitandPlasticlimittests	https://www.youtube.com/watch?v=pM-w_cvk1nA
5	ShrinkagelimitandDifferentialfree swell tests	https://www.youtube.com/watch?v=UyWdZJg4f_Y https://www.youtube.com/watch?v=qFlmUBHVAKw
6	Field density Test (Sand replacementmethodandcore cutter method)	https://www.youtube.com/watch?v=C10dkIH12W0 https://www.youtube.com/watch?v=5rDHjZ_RJq0
7	Determinationofmoisture–densityrelationship using standardProctorcompaction test.	https://www.youtube.com/watch?v=c4i_y6u-tsE
8	Determinationofrelativedensity	https://www.youtube.com/watch?v=k3AIholLWUk
9	Permeabilitydetermination (constantheadandfallinghead methods)	https://www.youtube.com/watch?v=B3gvVN29u8E https://www.youtube.com/watch?v=SS7o6sKw2Xc
10	Onedimensionalconsolidationtest	https://www.youtube.com/watch?v=wKdAbLamsvU
11	Directsheartestincohesionlesssoil	https://www.youtube.com/watch?v=bmpn5oNDvOs
12	Unconfinedcompressiontestin cohesivesoil	https://www.youtube.com/watch?v=M4TNKwuSnAk
13	Laboratoryvanesheartestin cohesivesoil	https://www.youtube.com/watch?v=fhub_nMvfBE&t=44s

E-LEARNING WEBSITE

- 1. Nptel**
- 2. Swayam**
- 3. Mook**
- 4. Udemy**
- 5. Edx**
- 6. Alison**



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DEPARTMENT OF MECHANICAL ENGINEERING

2.3.2 Teachers use ICT enabled tools for effective teaching learning process

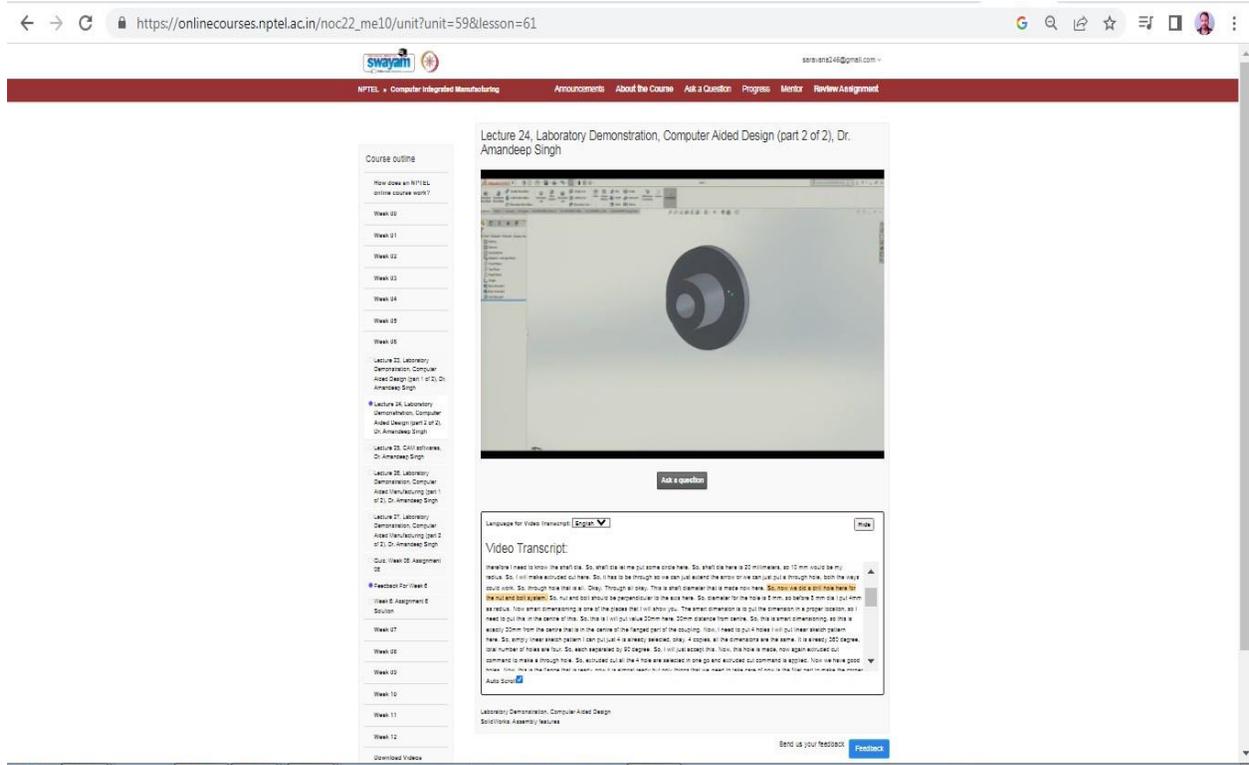
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1. NPTEL videos
2. Coursera
3. Google classrooms
4. Faculty participation in online course
5. E-Sources
6. Projectors in classrooms
7. Virtual based laboratory

ICT Tools: 1. Projectors-are available in different classrooms/labs

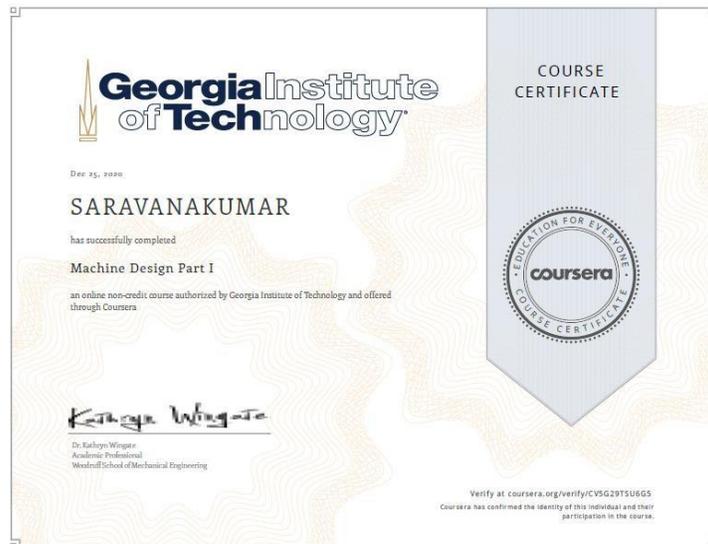
2. Desktop and Laptops-Arranged at Computer Lab and Faculty cabins all over the campus.
3. Printers-They are installed at Labs, HOD Cabins and all prominent places.
4. Photocopier machines-Multifunction printers are available at all prominent places in the institute. There are four photostat machines available in campus.
5. Scanners-Multifunction printers are available at all prominent places.
6. Seminar Rooms-Three seminar halls are equipped with all digital facilities.
7. Smart Board-One smart board is installed in the campus.
8. Auditorium-It is digitally equipped with mike, projector, camera and computer system.
9. Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom)
10. Hacker Rank (Online Coding Platform)- inter college competition
11. MOOC Platform (NPTEL, Coursera, SAP, Udemy, Edx etc)
12. Digital Library resources (DELNET, MYLOFT etc)

1. NPTELVIDEOS



Students are actively attending Swayam courses online

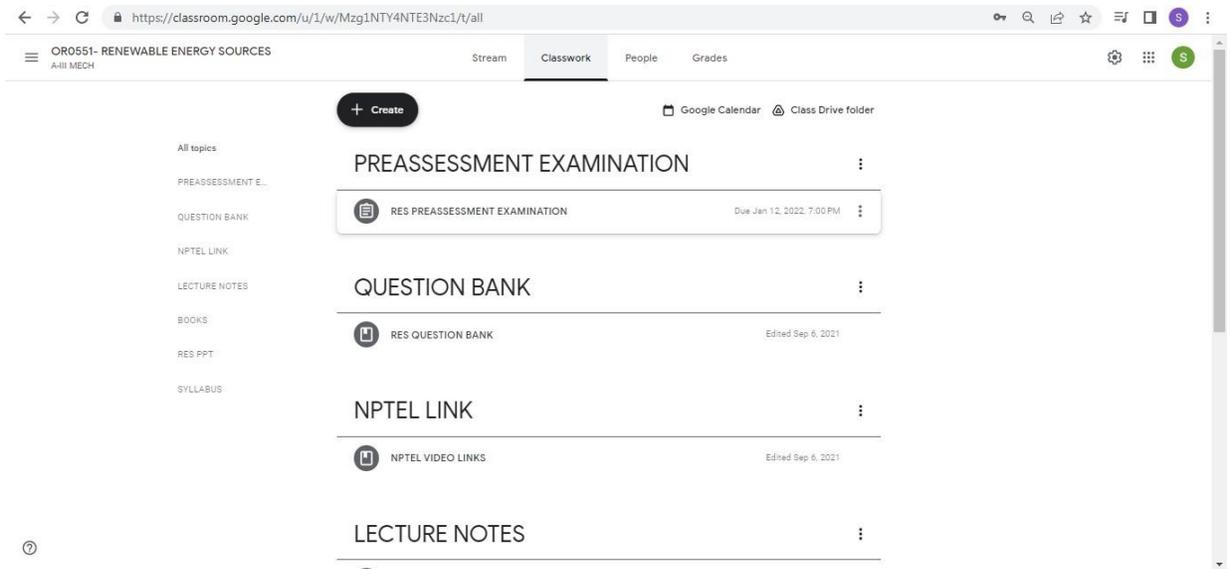
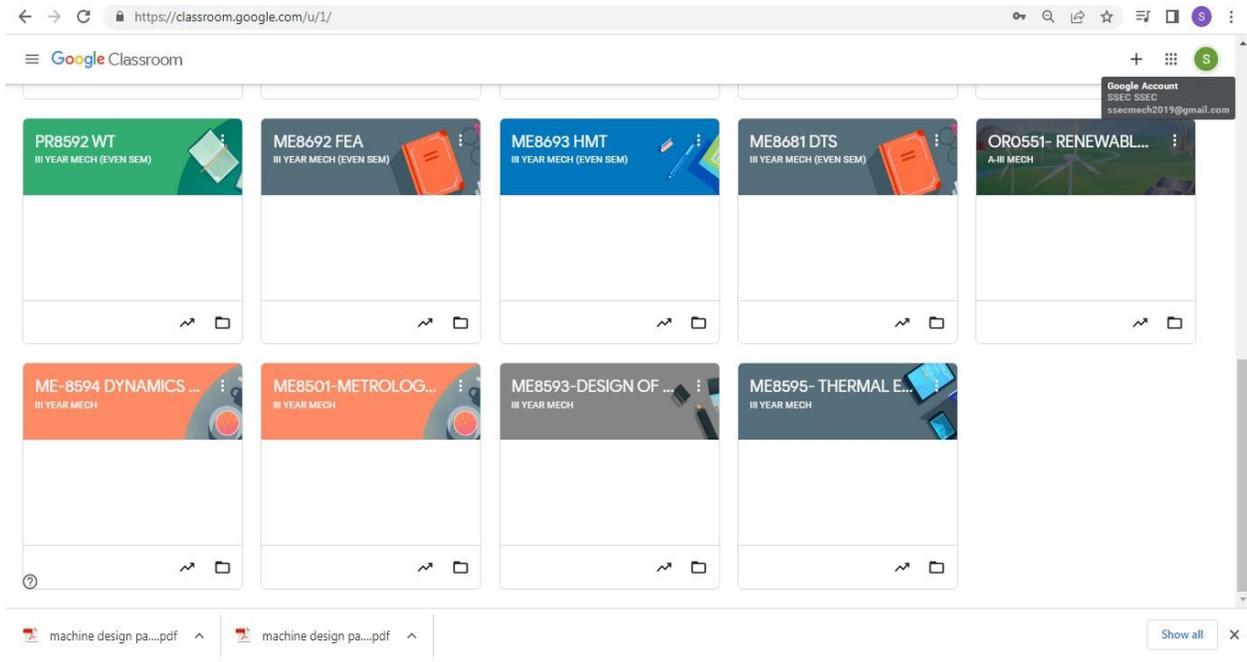
2. COURSERA:



Student from third year completed the Coursera online course

3. GOOGLE CLASSROOMS

Each batch of the students have a individual college mail ID. All course contents are uploaded there.



4 Faculty participation in online course:



NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SHIVASHANKAR R

for successfully completing the course

Laser Based Manufacturing

with a consolidated score of **75** %

Online Assignments	21.63/25	Proctored Exam	53.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **626**

Aug-Oct 2023

(8 week course)



Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati

5. E-Sources(NPTEL Videoslink)

SL.NO	TOPIC	NPTELVIDEO
1	Preferred numbers	https://www.youtube.com/watch?v=1NLhgCi4iaE
2	Design of solid and hollow shafts based on strength	https://www.youtube.com/watch?v=SL21aDqgs8Q
3	Rigidity and critical speed	https://www.youtube.com/watch?v=mR-mGq19oGs
4	Rigid and flexible couplings.	https://www.youtube.com/watch?v=uGxfchLe-I
5	Keyways and splines	https://www.youtube.com/watch?v=G0bShPqHn5c
6	Bending and torsional stress equations	https://www.youtube.com/watch?v=X-qUQ3xaTA
7	Impact and shock loading	https://www.youtube.com/watch?v=PYnkI_VFxaA
8	Calculation of principal stresses for various load combinations	https://www.youtube.com/watch?v=W8WhnAj5R6M
9	Eccentric loading	https://www.youtube.com/watch?v=py5xbKHGA
10	Threaded fasteners	https://www.youtube.com/watch?v=Z38Aq9ykUCM
11	Bolted joints including eccentric loading	https://www.youtube.com/watch?v=py5xbKHGA
12	Knuckle joints	https://www.youtube.com/watch?v=OT6VcqV0oGY
13	Cotter joints	https://www.youtube.com/watch?v=CLeLFUrvO2g
14	Welded joints	https://www.youtube.com/watch?v=7b1bd-lgra0
15	Riveted joints for structures	https://www.youtube.com/watch?v=C5ZPaCvoigw
16	Theory of bonded joints	https://www.youtube.com/watch?v=rOcliPMmP2M
17	Various types of springs	https://www.youtube.com/watch?v=tTBnW5gAieM

6. Projectors in class rooms



7. Virtualbased laboratory

Procedure

Self Evaluation

Simulation

Assignment

Quiz

Videos

References

Feedback

Kinematics of Machines

Lagu paTa:

Position analysis of Grashof four bar mechanism | लघुपाठ | Lagu paTa | Simulation Demo

Short & Apt Video Tutorials - An Initiative by CSD, NITK Surathkal

Share

Open Configuration		Crossed Configuration	
Variable	Value	Variable	Value
θ2	304°	θ2	304°
θ3	0°	θ3	86°
θ4	304°	θ4	150°
γ	56°	γ	56°

Watch on YouTube

Position Analysis of Grashof Four Bar Mechanism

SIMULATION DEMO

Mechanics of Machines Lab

Virtual

4:16 PM
25-Nov-23

Virtual Labs - Mechanical Engine x Virtual Labs x +
https://mm-nitk.vlabs.ac.in/exp/position-analysis-grashof/posttest.html

 Virtual Labs
An MoE Govt of India Initiative

Position analysis of Grashof four bar mechanism

Aim

Theory

Procedure

Self Evaluation

Simulation

Assignment

Quiz

Videos

References

Feedback

Which of the following is possible for Input and Output links in case of Grashof linkage?

- a: Crank-Crank
- b: Crank-Rocker
- c: Rocker-Rocker
- d: All

In Drag Link Mechanism

- a: Shortest link is fixed
- b: Longest link is fixed
- c: One other than shortest or longest link is fixed
- d: Any link can be fixed

If longest link is fixed and shortest link is coupler which type of four bar mechanism would be formed?

- a: Double Rocker
- b: Crank Rocker
- c: Double Crank

Windows taskbar: 4:00


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	GOOGLEMEETCLASS PHOTOS
	VIRTUALLABLINKS
	E-LEARNINGWEBSITE

ICTENABLEDPHOTO



ICTENABLEDSMARTCLASSROOMPHOTO



COMPUTER LAB



GOOGLECLASSROOM



GOOGLEMEETCLASSPHOTOS



VIRTUALLABLINKS

CE8512-WATERANDWASTEWATERANALYSIS LABORATORY

Sl.NO	NAMEOFTHEEXPERIMENT	HyperLink
1	DeterminationofPH,Turbidity andConductivity	https://www.youtube.com/watch?v=4ociAQoDCW0 https://www.youtube.com/watch?v=LeKqhMqEoKQ https://www.youtube.com/watch?v=WhyMOVvAu3s
2	DeterminationofHardness	https://www.youtube.com/watch?v=Sa0WfA9UGG0
3	DeterminationofAlkalinityand Acidity	https://www.youtube.com/watch?v=zXvEmlFqicw https://www.youtube.com/watch?v=UL56LrTKTl
4	DeterminationofChlorides	https://www.youtube.com/watch?v=KTWxG1uUT-0
5	DeterminationofPhosphates andSulphates	https://www.youtube.com/watch?v=Digx_p7Hb5Q https://www.youtube.com/watch?v=tU36Sqsqv0
6	DeterminationofironandFluoride	https://www.youtube.com/watch?v=QoR2X2Jrc8c https://www.youtube.com/watch?v=lclKhNdkEUo
7	Determinationofoptimumcoagulant dosage	https://www.youtube.com/watch?v=Y8faha-CEtM
8	Determinationofresidualchlorineand availablechlorineinbleachingpowder	https://www.youtube.com/watch?v=zelRO_lmDdch https://www.youtube.com/watch?v=2K_C1SGIMU4
9	Determinationofoilandgrease	https://www.youtube.com/watch?v=yxDQm9Ge8Z8&t=103s
10	Determinationofsuspended, settleable, volatileand fixed solids	https://www.youtube.com/watch?v=GJSe_Deo-0 https://www.youtube.com/watch?v=WsRxE2IwVmk
11	DeterminationDissolvedOxygenand BODforthegivensample	https://www.youtube.com/watch?v=h4fCkhhb4Y5I https://www.youtube.com/watch?v=yq7lSeCi6uo
12	DeterminationofCODofgivensample	https://www.youtube.com/watch?v=xZu8GCCeJ_c
13	DeterminationofSVIofbiological sludge andmicroscopicexamination	https://www.youtube.com/watch?v=GTLkoGGo0dM https://www.youtube.com/watch?v=l8xf1Hig8HO
14	DeterminationMPNindexofgiven water sample	https://www.youtube.com/watch?v=csi82oWy7hM
15	DeterminationofAmmoniaNitrogen inwastewater	https://www.youtube.com/watch?v=h84cOeJNSC0

HYDRAULIC ENGINEERING LABORATORY

Virtual Lab Link:

<u>SL.N O.</u>	<u>NAME OF THE EXPERIMENT</u>	<u>HyperLink</u>
<u>1</u>	<u>Calibration of Rotameter</u>	https://www.youtube.com/watch?v=6CdO9inzSRQ
<u>2</u>	<u>Calibration of Venturimeter/ Orificemeter</u>	https://www.youtube.com/watch?v=3wfUev6TQv0&feature=youtu.be https://www.youtube.com/watch?v=FmI92OGnj7I
<u>3</u>	<u>Bernoulli's Experiment</u>	https://www.youtube.com/watch?v=kPu9KO3TI28 https://www.youtube.com/watch?v=UJ3-Zm1wblQ&feature=youtu.be
<u>4</u>	<u>Determination of friction factor in pipes</u>	https://www.youtube.com/watch?v=OyygOL8I09U
<u>5</u>	<u>Determination of minor losses</u>	https://www.youtube.com/watch?v=hNtQMu57j44
<u>6</u>	<u>Characteristics of Centrifugal pumps</u>	https://www.youtube.com/watch?v=gk15BTzjggg
<u>7</u>	<u>Characteristics of Gear pump</u>	https://www.youtube.com/watch?v=qow9OaUdt6U
<u>8</u>	<u>Characteristics of Submersible pump</u>	https://www.youtube.com/watch?v=WVAjwjQeE68
<u>9</u>	<u>Characteristic of Reciprocating pump</u>	https://www.youtube.com/watch?v=s6Rlx0SL3C8&feature=youtu.be
<u>10</u>	<u>Characteristics of Pelton wheel turbine</u>	https://www.youtube.com/watch?v=N_iAwHhf4FA
<u>11</u>	<u>Characteristic of Francis turbine/ Kaplan turbine</u>	https://www.youtube.com/watch?v=Tp8h1G4m434 https://www.youtube.com/watch?v=V2kB9NdsaN8
<u>12</u>	<u>Determination of Metacentric height of floating bodies</u>	https://www.youtube.com/watch?v=QUgXf2Rj2YQ&feature=youtu.be
<u>13</u>	<u>Flow through Orifice, Mouthpiece and Notches</u>	https://www.youtube.com/watch?v=Y5k4vxoztFo

SOILMECHANICS LABORATORY

VirtualLabLink:

SI.NO	NAMEOFTHEEXPERIMENT	HyperLink
1	Specificgravityofsoilsolids	https://www.youtube.com/watch?v=hNNilk-OKaw
2	Grainsizedistribution–Sieve analysis	https://www.youtube.com/watch?v=CAezS3mPzOc
3	Grainsizedistribution-Hydrometeranalysis	https://www.youtube.com/watch?v=78sJKsaUvY
4	LiquidlimitandPlasticlimittests	https://www.youtube.com/watch?v=pM-w_cvk1nA
5	ShrinkagelimitandDifferentialfree swell tests	https://www.youtube.com/watch?v=UyWdZJg4f_Y https://www.youtube.com/watch?v=qFlmUBHVAKw
6	Field density Test (Sand replacementmethodandcore cutter method)	https://www.youtube.com/watch?v=C10dkIH12W0 https://www.youtube.com/watch?v=5rDHjZ_RJq0
7	Determinationofmoisture–densityrelationship using standardProctorcompaction test.	https://www.youtube.com/watch?v=c4i_y6u-tsE
8	Determinationofrelativedensity	https://www.youtube.com/watch?v=k3AIholLWUk
9	Permeabilitydetermination (constantheadandfallinghead methods)	https://www.youtube.com/watch?v=B3gvVN29u8E https://www.youtube.com/watch?v=SS7o6sKw2Xc
10	Onedimensionalconsolidationtest	https://www.youtube.com/watch?v=wKdAbLamsvU
11	Directsheartestincohesionlesssoil	https://www.youtube.com/watch?v=bmpn5oNDvOs
12	Unconfinedcompressiontestin cohesivesoil	https://www.youtube.com/watch?v=M4TNKwuSnAk
13	Laboratoryvanesheartestin cohesivesoil	https://www.youtube.com/watch?v=fhub_nMvfBE&t=44s

E-LEARNING WEBSITE

- 1. Nptel**
- 2. Swayam**
- 3. Mook**
- 4. Udemy**
- 5. Edx**
- 6. Alison**



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