

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 TEACHINGLEARNING PROCESS



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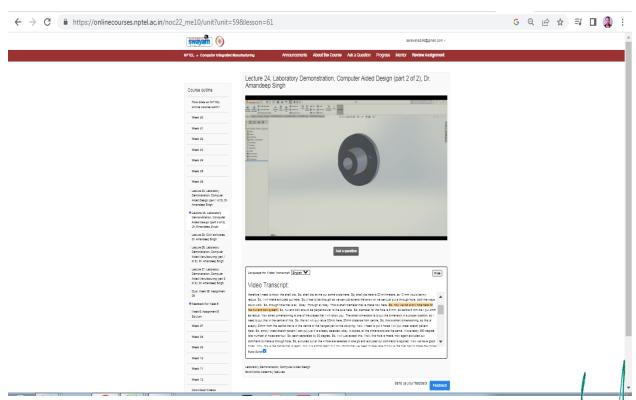
DEPARTMENT OF MECHANICAL ENGINEERING

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 class rooms
- 4. Faculty participation in online course
- 5. E –Sources
- 6. Projectors in class rooms
- 7. Virtual based laboratory

1. NPTEL VIDEOS



Students are actively attending swayam courses in Online

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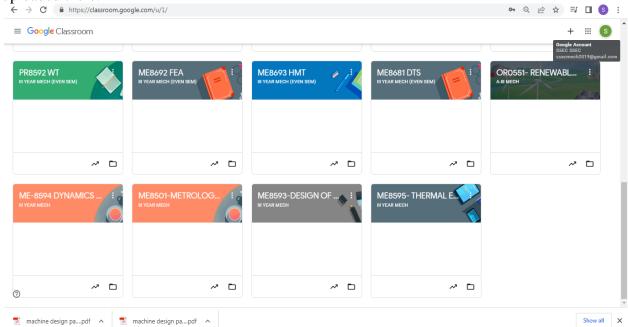
2.COURSERA:



Student from third year completed the coursera online course

3. GOOGLE CLASS ROOMS

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



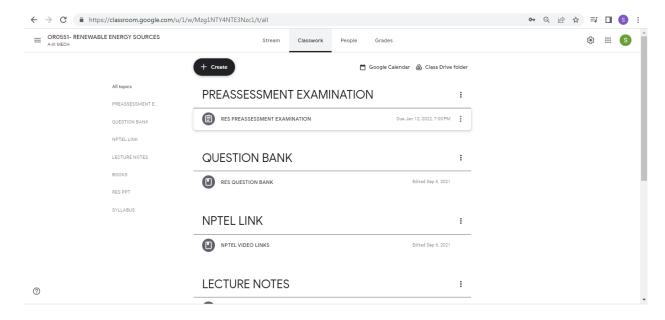
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4 Faculty participation in online course:

Insert logesh sir certificate

5. E –Sources (NPTEL Videos link)

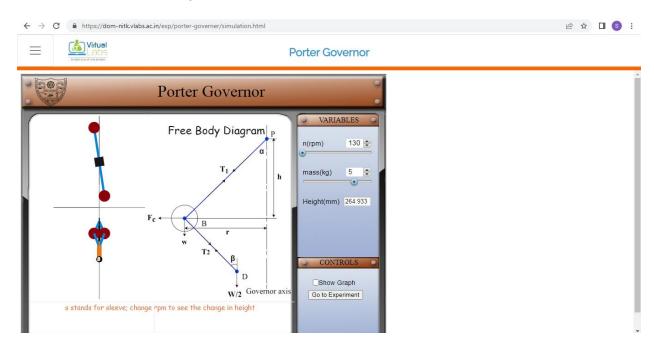
SI.NO	TOPIC	NPTEL VIDEO
1	Preferred numbers	https://www.youtube.com/watch?v=1NLhgCi4iaE
2	Design of solid and hollow shafts	https://www.youtube.com/watch?v=SL21aDqgs8Q
	based on strength	
3	Rigidity and critical speed	https://www.youtube.com/watch?v=mR-mGq19oGs
4	Rigid and flexible couplings.	https://www.youtube.com/watch?v=uGxfchLeI
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 principle 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=OT6VcqvOoGY
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

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6. Projectors in class rooms



7. Virtual based laboratory



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DEPARTMENT OF CIVIL ENGINEERING

	ICT ENABLED PHOTO
	ICT ENABLED SMART CLASS ROOM PHOTO
	COMPUTER LAB
2.3.2	GOOGLE CLASSROOM
	GOOGLE MEET CLASS PHOTOS
	VIRTUAL LAB LINKS E-LEARNING WEBSITE
	E-LEARINING WEDSITE

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ICT ENABLED PHOTO





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ICT ENABLED SMART CLASS ROOM PHOTO



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COMPUTER LAB





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GOOGLE CLASSROOM



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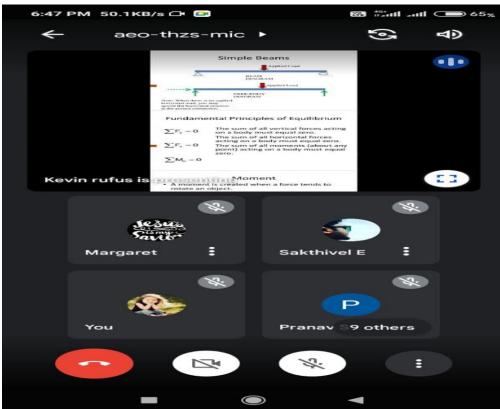
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GOOGLE MEET CLASS PHOTOS





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VIRTUAL LAB LINKS

CE8512 - WATER AND WASTE WATER ANALYSIS LABORATORY

Sl.NO	NAME OF THE EXPERIMENT	Hyper Link
1	Determination of PH, Turbidity andConductivity	https://www.youtube.com/watch?v=4ociAQoDC W0 https://www.youtube.com/watch?v=LeKqhMqE oKQ https://www.youtube.com/watch?v=WhyMOVv Au3s
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=UL56Lr TKTI
4	Determination of Chlorides	https://www.youtube.com/watch?v=KTWxG1uUT-0
5	Determination of Phosphates and Sulphates	https://www.youtube.com/watch?v=Digx_p7Hb5Q https://www.youtube.com/watch?v=_tU36Sqsqv0
6	Determination of iron and Fluoride	https://www.youtube.com/watch?v=QoR2X2J rc8c https://www.youtube.com/watch?v=IcIKhNdK EUo
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=zelRO_lmDdc https://www.youtube.com/watch?v=2K_C1SGIMU4
9	Determination of oil and grease	https://www.youtube.com/watch?v=yxDQm9Ge8Z8&t=103s
10	Determination of suspended, settleable, volatile and fixed solids	· · · · · · · · · · · · · · · · · · ·
11	Determination Dissolved Oxygen and BOD for the given sample	https://www.youtube.com/watch?v=h4fCkhb4Y5I https://www.youtube.com/watch?v=yg7lSeCi6uo
12	Determination of COD of given sample	
13	Determination of SVI of biological sludge and microscopic examination	https://www.youtube.com/watch?v=GTLKoGGo0dM https://www.youtube.com/watch?v=I8xf1Hig8H0
14	Determination MPN index of given water sample	https://www.youtube.com/watch?v=csi82oWy7hM
15	Determination of Ammonia Nitrogen inwastewater	https://www.youtube.com/watch?v=h84cOeJNSCO

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HYDRAULIC ENGINEERING LABORATORY

Virtual Lab Link:

CI NT	NAME OF THE DATE OF THE PARTY.	TT T * . I
Sl.N	NAME OF THE EXPERIMENT	Hyper Link
<u>O.</u>		
<u>1</u>	Calibration of Rotameter	https://www.youtube.com/watch?v=6CdO9inzSRQ
<u>2</u>	Calibration of Venturimeter /	https://www.youtube.com/watch?v=3wfUev6TQv0&feature=yo
_ =	<u>Orificemeter</u>	utu.be https://www.youtube.com/watch?v=Fml92OGnj7l
3	Bernoulli's Experiment	https://www.youtube.com/watch?v=kPu9KO3Tl28
		https://www.youtube.com/watch?v=UJ3-
		Zm1wbIQ&feature=youtu.be
<u>4</u>	Determination of friction	https://www.youtube.com/watch?v=OyygOL8I09U
	factor inpipes	Tittps://www.youtube.com/wutch.v oyygozoloso
<u>5</u>	Determination of minor losses	https://www.youtube.com/watch?v=hNtQMu57j44
<u>6</u>	Characteristics of Centrifugal	https://www.youtube.com/watch?v=gk15BTzjggg
	pumps	
<u>7</u>	Characteristics of Gear pump	https://www.youtube.com/watch?v=qow9OaUdt6U
8	Characteristics of Submersible	https://www.youtube.com/watch?v=WVAjwjQeE68
<u> </u>	pump	inceps.// www.youtabe.com/ watern.v wv/gwjącebo
0	Characteristics of Reciprocating	L., //
9		https://www.youtube.com/watch?v=s6RIx0SL3C8&feature=youtu.be
	pump	utu.be
<u>10</u>	Characteristics of Pelton wheel	https://www.youtube.com/watch?v=N_iAwHhf4FA
	<u>turbine</u>	
11	Characteristics of Francis turbine/	https://www.youtube.com/watch?v=Tp8h1G4m434
11	Kaplan turbine	https://www.youtube.com/watch?v=V2kB9NdsaN8
1.0	Determination of Metacentric	
<u>12</u>	height of floating bodies	https://www.youtube.com/watch?v=QUgXf2Rj2YQ&feature=y
		<u>outu.be</u>
13	Flow through Orifice,	https://www.youtube.com/watch?v=Y5k4vxoztFo
15	Mouthpiece and Notches	The state of the s

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SOIL MECHANICS LABORATORY

Virtual Lab Link:

SI.NO	NAME OFTHE EXPERIMENT	Hyper Link
1	Specific gravity of soil solids	https://www.youtube.com/watch?v=hNNilk- OKaw
2	Grain size distribution – Sieve analysis	https://www.youtube.com/watch?v=CAezS3mPz Oc
3	Grain size distribution - Hydrometeranalysis	https://www.youtube.com/watch?v=78sKJKsaUv Y
4	Liquid limit and Plastic limit tests	https://www.youtube.com/watch?v=pM- w_cvk1nA
5	Shrinkage limit and Differential free swell tests	https://www.youtube.com/watch?v=UyWdZJg4f _Y https://www.youtube.com/watch?v=qFlmUBHV AKw
6	Field density Test (Sand replacementmethod and core cutter method)	https://www.youtube.com/watch?v=C10dklH12 W0 https://www.youtube.com/watch?v=5rDHjZ_RJq 0
7	Determination of moisture – densityrelationship using standard Proctor compaction test.	https://www.youtube.com/watch?v=c4i y6u-tsE
8	Determination of relative density	https://www.youtube.com/watch?v=k3AIhoILW Uk
9	Permeability determination (constanthead and falling head methods)	https://www.youtube.com/watch?v=B3gvVN29u8E https://www.youtube.com/watch?v=SS7o6sKw2Xc
10	One dimensional consolidation test	https://www.youtube.com/watch?v=wKdAbLamsvU
11	Direct shear test in cohesionless soil	https://www.youtube.com/watch?v=bmpn5oND vOs
12	Unconfined compression test in cohesivesoil	https://www.youtube.com/watch?v=M4TNKwuS nAk
13	Laboratory vane shear test in cohesivesoil	https://www.youtube.com/watch?v=fhub_nMvfB E&t=44 s

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E-LEARNING WEBSITE

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

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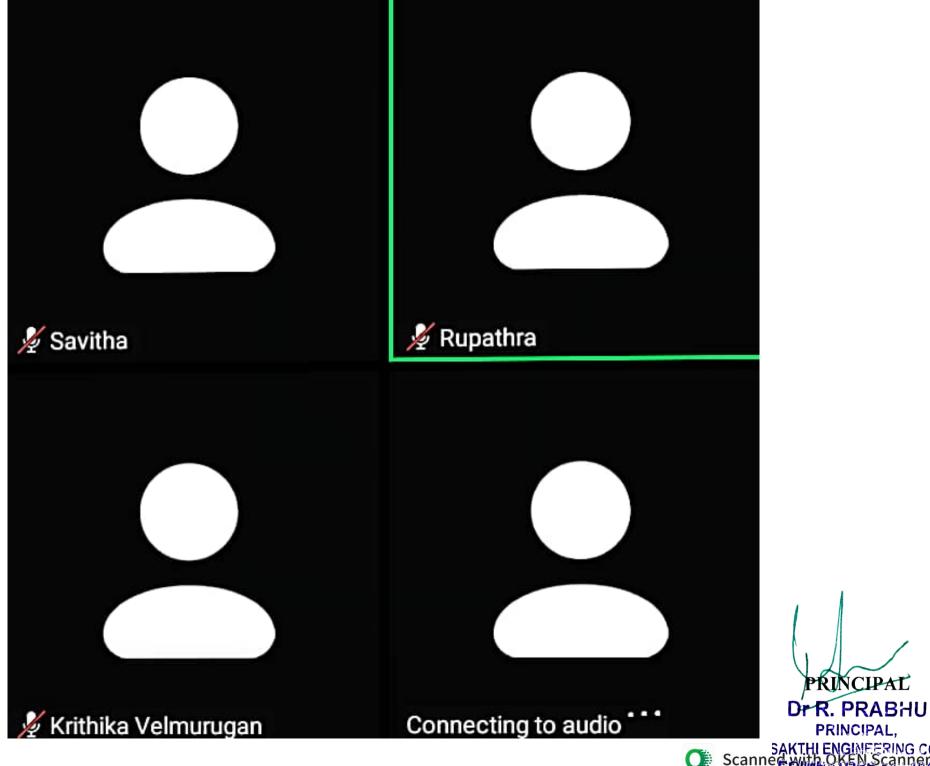
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COMMERTO CALLAS GORNNEE WITH OKEN Scanner



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Waiting(1)



Shathasri Shathasri

Joining...

Participants(5)



Elakkiya Elambarithi (Host, me)







Krithika Velmurugan







Rupathra





S

Savitha







B. Manjupriya



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