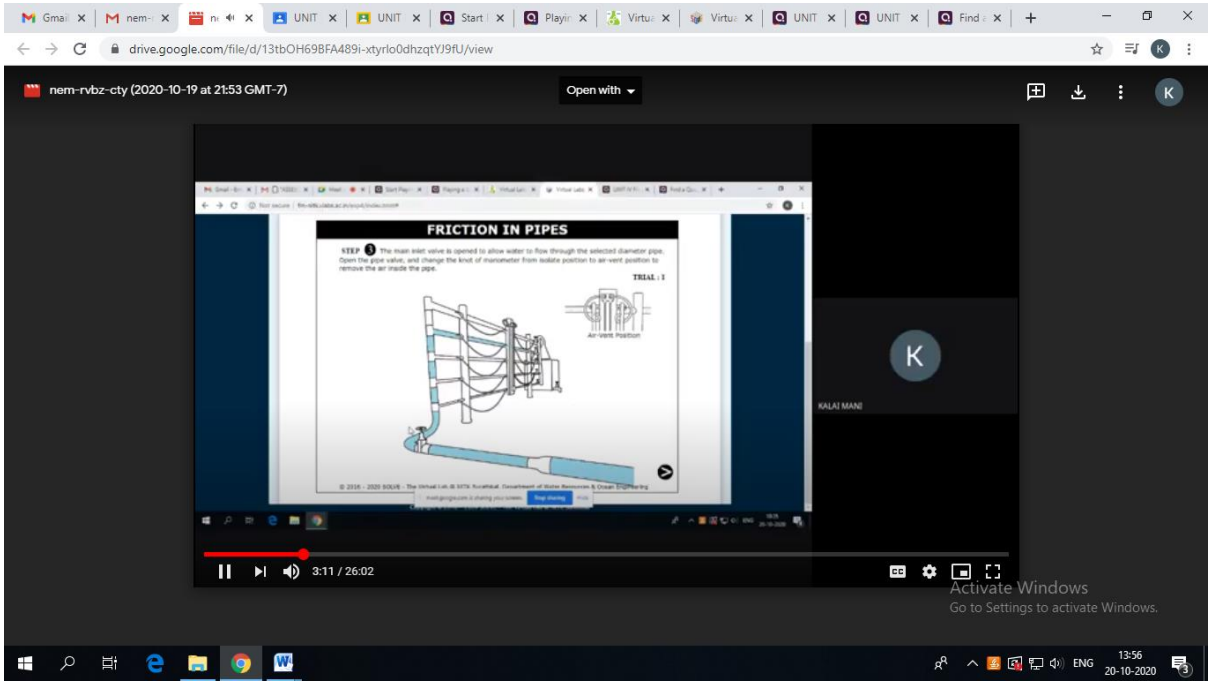
RAMCO Institute of Technology, Rajapalayam

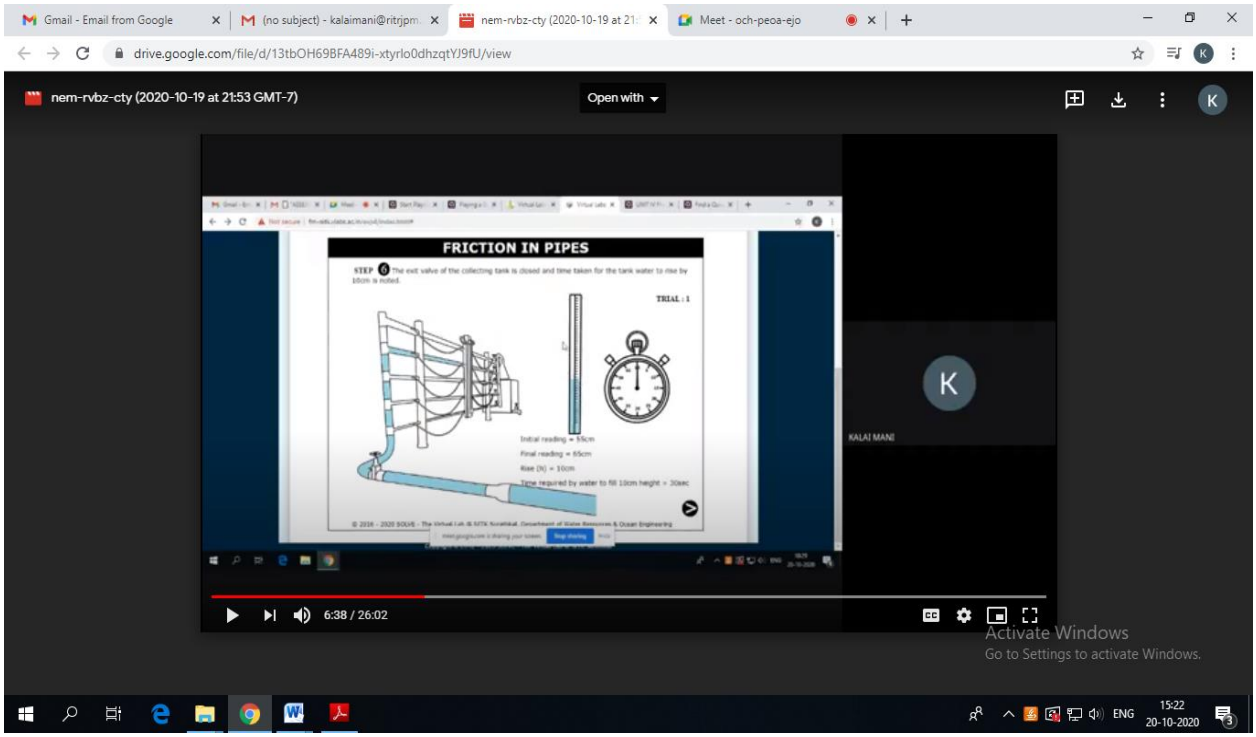
Department of Civil Engineering

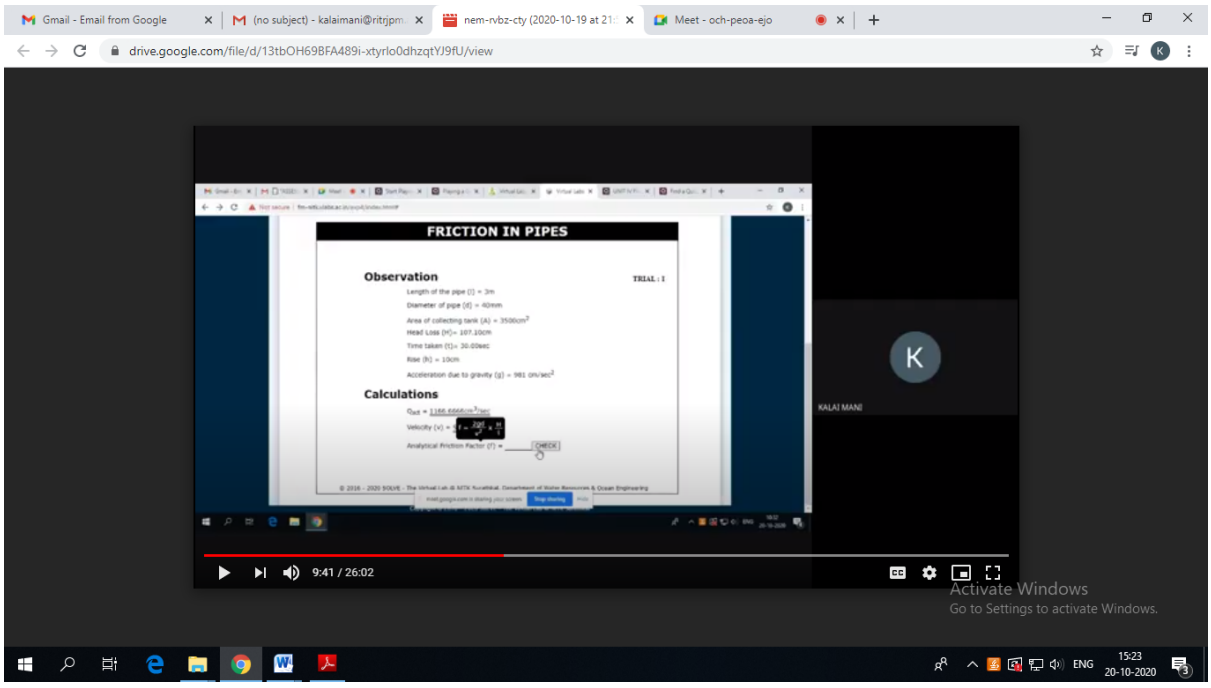
RIT- IITM PALS VLAB Initiative

Virtual Laboratory Session Handling Details

Name of the Faculty	:	Mrs.R.Kalaimani
Subject Code and Title	:	CE8302- Fluid Mechanics
Year and Branch	:	II – Civil Engineering
Topics Covered	:	Friction in pipes
Name of the Laboratory	:	Fluid Mechanics Laboratory
Website Link	:	http://fm-nitk.vlabs.ac.in/exp4/index.html#
No.of Students participated	:	17/14
Assignment given if any (If Yes share the uploaded folder link)	:	No




Gmail - Email from Google
(no subject) - kalaimani@ritrjpm
nem-rvbz-cty (2020-10-19 at 21:
Meet - och-peoa-ejo
drive.google.com/file/d/13tbOH69BFA489i-xtyrlo0dhzqtYJ9fU/view
nem-rvbz-cty (2020-10-19 at 21:53 GMT-7)
Open with
FRICTION IN PIPES
TRIAL : 1
Initial reading = 55cm
Final reading = 65cm
Rise (h) = 10cm
Time required by water to fill 10cm height = 30sec
KALAI MANI
6:38 / 26:02
Activate Windows
Go to Settings to activate Windows.
ENG
15:22
20-10-2020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Meet - och-peoa-ejo
drive.google.com/file/d/13tbOH69BFA489i-xtyrlo0dhzqtYJ9fU/view
FRICTION IN PIPES
Observation
TRIAL : 1
Length of the pipe (l) = 3m
Diameter of pipe (d) = 40mm
Area of collecting tank (A) = 3500cm²
Head Loss (H)= 107.10cm
Time taken (t)= 30.00sec
Rise (h) = 10cm
Acceleration due to gravity (g) = 981 cm/sec²
Calculations
Analytical Friction Factor (f) =
CHECK
KALAI MANI
9:41 / 26:02
Activate Windows
Go to Settings to activate Windows.
ENG
15:23
20-10-2020