

Activity Report

One Day Online Workshop (5th July 2021)

On

'Design of Water Supply System using EPANET'

In Association with



Organized by,

**Civil Engineering Students Association (CESA)
Department of Civil Engineering**



**SVKM's Institute of Technology, Dhule
(Maharashtra State)**





**Shri Vile Parle Kelavani Mandal's
Institute of Technology, Dhule, Maharashtra, India**

Aim: To serve as a platform for academics and professional practitioners to exchange knowledge.

Name of Program: One day online workshop on 'Design of Water Supply System using EPANET'

Date: 05 July 2021

Convener: Dr. Shrikant Randhavane

Event Coordinator: Prof. Prerana Ikhar, Prof. Satish Taji, Prof. Pratik Deore

Organizing Team: All Teaching staff, Department of Civil Engineering

Resource Person: Prof. Satish Taji

Participants: Diploma students, UG students, PG students and faculties.

Objectives: Participants learned:

- 1) To design water supply system (WSS) at various locations.
- 2) To install EPANET in computer or laptop.
- 3) To interpret the interface of EPANET software.
- 4) To apply WSS designing concepts in software.

The pandemic COVID-19 has necessitated drastic measures like social distancing, staying indoors to be taken to fight against it. Needless to say, these are challenging times that we are living in. This situation has demanded highly skilled technical persons who cannot be stopped by the constraint of online methods. Thus, to develop the skills of student for different software required in civil engineering. Our department has initiated the online training program series for UG and diploma students especially. This series will basically focus on software training. First event under this series, one-day online workshop 'Design of Water Supply System' was organized on 5th July 2021. Total 152 participants from all over Maharashtra has participated in this event.

A detailed session on design of water supply system using EPANET including the Introduction to water supply systems and Introduction to EPANET were covered in the workshop. This workshop was mainly aimed at the Diploma and UG students, so that they will get an overview of how to design a water supply system and EPANET software which will be helpful for their project work and in future career as well. The inauguration was carried out online MS Teams platform by Dr. Shrikant Randhavane, Coordinator Civil Engineering Department. Prof. Satish Taji has executed the whole program as resource person. Prof. Prerana Ikhar has acted as host for the event. Prof. Pratik Deore delivered the vote of thanks at the end.

Schedule of event:

| Time | Title |
|----------------------|--------------|
| 10:00 am to 10:15 am | Inauguration |



| | |
|----------------------|---|
| 10:15 am to 12:15 pm | Session 1: Introduction to water supply systems(WSS) <ul style="list-style-type: none"> • Layout, types • Components, design parameters • Population forecasting and demand • Design steps and consideration |
| 12:15 pm to 01:00 pm | Lunch Break |
| 01:00 pm to 03:00 pm | Session 2: Introduction to EPANET <ul style="list-style-type: none"> • Interface, system requirements • Installation • Objects and tools • Various simulation options |
| 03:00 pm to 03:15 pm | Short Break |
| 03:15 pm to 05:00 pm | Session 3: Design of water supply system using EPANET <ul style="list-style-type: none"> • Adding objects, creating pipe network, input data • Simulation run and results • Reading results and network properties • Finalize network and print. |
| 05:00 pm to 05:15 pm | Discussion and question answer session |
| 05:15 pm to 05:30 pm | Feedback and vote of thanks |

Conduction of event:

The necessary information and study material of event had circulated through Telegram group prepared for event. The event is started according to schedule at 10:00 am with inauguration. During session, attendance link had been circulated among participants to mark their attendance. At the end of last session, discussion and feedback session is conducted where participants had given their feedback about conduction of whole event. Also, to register feedback, feedback link had also circulated to know the detailed feedback.


Glimpses from the event:




Poster - PowerPoint

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Prerana Ikar Share



Shri Vile Parle Kelavani Mandal's
Institute of Technology, Dhule
presents
Online Training Program Series



1st Online Program on
“Design of Water Supply System using EPANET”
5th July 2021

Organized by,
Department of Civil Engineering
and **Civil Engineering Student Association (CESA),**
SVKM's Institute of Technology, Dhule

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Slide 1 of 2 English (India)


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+26 SM SA CD DS HP JAVASTU PATIL - 1402180020 Satish Taji Shikant Ranthavane (Dr.) TANVIR SHEKHAR - 1402120030 Prerana Ikar Prerana Ikar


Poster - PowerPoint

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Prerana Ikar Share



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1st Online Program on
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Mr. Satish G. Taji,
M. E. (WRE), B. E. (Civil Engrg.)
Assistant Professor,
Department of Civil Engineering,
SVKM's Institute of Technology, Dhule.

- Conducted 5 different workshops on hydrologic modelling, water supply system designing, SWAT, etc.
- No. of research papers published in national and international conference: 4**
- No. of book chapters published: 2** (Springer and Nova publication, Australia)
- No. of research paper published in international publication: 1**
- Expertise in models and softwares:** ArcGIS, QGIS, QSWAT and SWATCUP, SAGA-GIS, grassGIS, EPA SWMM , EPA NET, HEC-RAS, GISWater, PCSWMM.
- Teaching Experience: 5 years**

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Slide 3 of 2 English (India)

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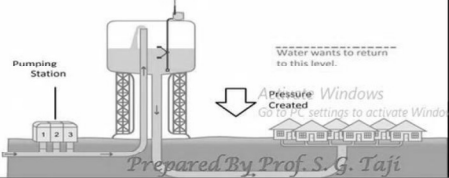
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Types of Distribution Reservoirs

□ Elevated Storage Reservoir (ESR)

- Elevated Storage Reservoirs (ESRs) also referred to as Overhead Tanks are required at distribution areas which are not governed and controlled by the gravity system of distribution.
- These are rectangular, circular or elliptical in shape.
- If the topography of the town not suitable for under gravity, the elevated tank or reservoir are used.

Prepared By Prof. S. G. Taji

+48 CD PI SA SA AP JAVASTU PATIL - 1407180020 Shrikant Rathavare (Dr.) Yashashri pawar Md Asqib Shah Satish Taji Satish G. Taji (Guest)



Sample Certificate

Shri Vile Parle Kelavani Mandal's
INSTITUTE OF TECHNOLOGY
Department of Civil Engineering



**CERTIFICATE
OF PARTICIPATION**

This is to certify that,

Chinmayee Vitthal Desale

of SSVPS BSD COLLEGE OF ENGINEERING DEOPUR DHULE
has successfully participated in One Day Online Workshop on "Design of Water
Supply System using EPANET" organized by Department of Civil Engineering,
Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule
conducted on 5th July 2021.


Dr. Shrikant Randhavane
Convenor and Dept. Coordinator,
Department of Civil Engg.
SVKM's IOT DHULE.




Dr. Nilesh Salunke
Principal,
SVKM's IOT DHULE.

Certificate no: CEDTPSW2021007

Shri Vile Parle Kelavani Mandal's
INSTITUTE OF TECHNOLOGY
Department of Civil Engineering



**CERTIFICATE
OF PARTICIPATION**

This is to certify that,

Shinde Suraj Anandrao


of Zeal College of engineering and Research Narhe ,Pune
has successfully participated in One Day Online Workshop on "Design of Water
Supply System using EPANET" organized by Department of Civil Engineering,
Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule
conducted on 5th July 2021.


Dr. Shrikant Randhavane
Convenor and Dept. Coordinator,
Department of Civil Engg.
SVKM's IOT DHULE.




Dr. Nilesh Salunke
Principal,
SVKM's IOT DHULE.

Certificate no: CEDTPSW2021013


Dr. Shrikant Randhavane
HOD Civil Dept.

