Ref: KLEF/RO/CE/2023-24 Date: 13-12-2023

#### Orders of the I/c.Vice Chancellor & Pro Vice Chancellor Dr.A.V.S. Prasad dt.13-12-2023

## **CIRCULAR**

Sub: Importance of Grey Water Treatment and Resource Recovery Technologies by Department of CE, KLEF – Reg. Ref: Letter dated 13.12.2023 from Dr.P.Poluraju, HoD-CE.

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This is to inform that Department of Civil Engineering, KLEF, is conducting Importance of Grey Water Treatment and Resource Recovery Technologieson 15-12-2023.

Name of the Speaker : Dr. S. DHANASEKAR

Venue : Online

Time : 3:00 pm onwards

### **Meeting Link:**

https://kluniversity.webex.com/kluniversity/j.php?MTID=m0a9809d56ce41f47 9e77cea5351270ec

# REGISTRAR

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Mail to: Hon'ble Vice-

Presidents, KLEF

Mail & Hard copy to:

Hon'ble Pro Chancellor

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students
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Thanks & Regards





### Report

Online Webinar on

### **Importance of Grey Water Treatment and Resource Recovery Technologies**

On 15<sup>th</sup> December 2023, 3.00 PM

In Association with CEA

**Resource Person:** Dr. S. DHANASEKAR, M.E., PhD, Assistant Professor, Department of Civil Engineering, SRM Institute of Science and Technology, Chennai.

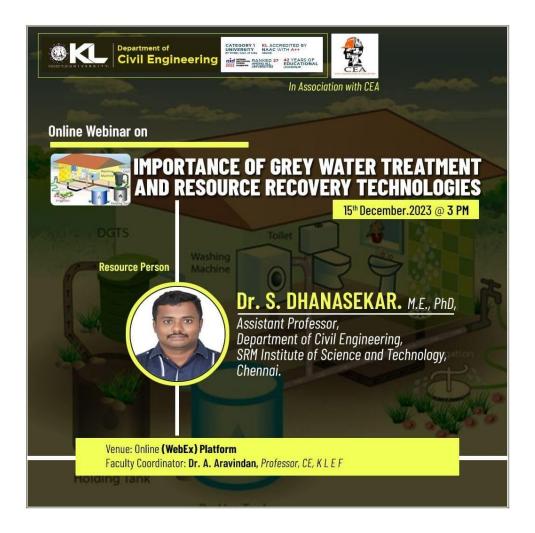
Mode: Online

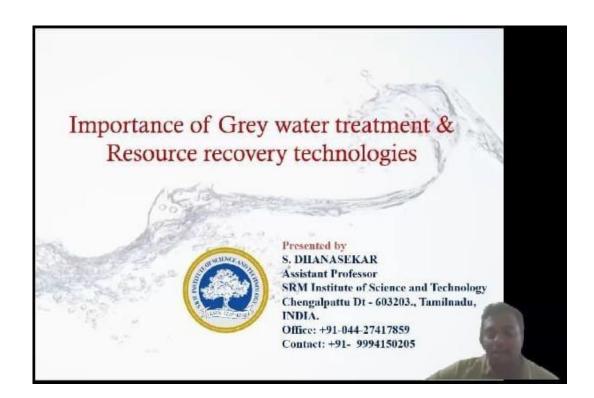
**Total participated: 50** 

Faculty Coordinator: Dr. A. Aravindan, Professor, Department of Civil Engineering.

Wastewater generated from households can be classified into Grey water and black water. Grey water makes up a substantial portion of household wastewater. Such water consists of wastewater released from kitchen sinks, showers, laundries, and hand basins. Since the Grey water is not mixed with human excreta and due to the low levels of pathogenic contamination and nitrogen, it has received more attention for recycling and reusing in recent decades. Implementing decentralized grey water treatment systems can be an effective solution to overcome water scarcity by supplying a part of water requirement, at least non-potable demand, and decreasing pollutant emissions by eliminating long-distance water transportation in remote regions, like rural and isolated areas. This review focuses on grey water management in terms of reducing environmental risks as well as the possibility of treatment. Effective management of water reclamation systems is essential for a decentralized approach and to ensure the

protection of public health. In this regard, the environmental impacts of disposal or reusing the untreated Grey water are discussed. Furthermore, the most appropriate technologies that can be employed for the decentralized treatment of Grey waters like constructed wetlands, waste stabilization ponds, membrane systems, and elector-chemical technologies are described. Finally, this review summarizes resource recovery and sustainable resource reuse.





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**Faculty Coordinator** ( Dr. A. Aravindan)

origin.

**HOD-CE** (Dr. P. Poluraju)

