About the course

One year Post Graduate Diploma in Non-Sewered Sanitation (PGD NSS) course intends to increase the number of skilled sanitation professionals. The course aims at imparting knowledge as well as skills on principles and practices of wastewater & fecal sludge and septage management. Students are expected to learn conceptualisation, design, Implementation and management aspects of Non-Sewered Sanitation System.

Course objective

- Understand the need for non-sewered sanitation and its management
- Understand sanitation, its components, types of sanitation system in practice
- Define the linkages between public health and sanitation and also able to link poor NSS with adverse impacts on public health and environment
- Demonstrate mapping of wastewater/excreta flow in a region by using standard graphic generator, a tool developed by Shit Flow Diagram (SFD) Promotion Initiative
- Understand the different wastewater streams and its management including treatment approaches and disposal methods
- Understand fecal sludge/septage and need for its management
- Define the existing Fecal Sludge (FS) treatment technologies, their advantages, constraints and field of application
- Conduct laboratory analysis of wastewater and fecal sludge characteristics
- Understand the wide range of potential resource recovery opportunities from fecal sludge and key criteria in selecting the most appropriate options.
- Understand the governance and legal framework for management of Sanitation system
- Indicate how regulations, contracts, stakeholders’ roles and a proper institutional framework are essential for an effective fecal sludge management.

Course Structure

- The course is conducted for a duration of 12 months in semester pattern.

Topics covered

- Introduction to Sanitation and System
- Impact of Sanitation
- Introduction to wastewater streams and treatment approach
- Governance and legal framework for sanitation
- Environmental engineering lab - Basics of wastewater & fecal sludge analytical techniques
- Mini project
- Fecal Sludge and Septage Management (FSSM)
- Design of FSSM systems
- Financing & Management of FSSM
- WASH in Emergency

Course Requirements

- Age of candidates should be 20 to 35 years, course offered for both male and female. Females will be given priority
- Candidates should hold in B.Sc. degree in - Chemistry, Biochemistry, Microbiology, Environmental Science; or B.E. in - Environmental Engineering, Civil Engineering, Chemical Engineering; or B.Voc. in - Environmental Engineering.
- Medium of Instruction is English
- Selection is based on eligibility examination followed by personal interview and 100% scholarship will be given for selected candidates.

Course Requirements

- 100% Scholarship for meritorious students
- Job Placement Assistance
- Practical Training methodology
- Expert faculties from the field

WASH Institute invites applications for the

ACADEMIC YEAR 2022-2023

PG Diploma in Non-Sewered Sanitation

(Affiliated to Madurai Kamaraj University)

PGD NSS - 1 year

WASH Institute

No.1/20, Kathiranampatti Pirivu, Palani Main Road, Reddiarchatram, DINDIGUL 624 622

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About WASH Institute

Water, Sanitation and Hygiene Institute (WASH Institute) established during the year 2008, is a national level NGO dedicated to provide and strengthen the capacity, and skills of the professionals involved in the sector across India through intensive trainings. Headquartered in Kodaikanal (Tamil Nadu), WASH Institute is a sector partner for National Jal Jeevan Mission. It provides Technical Assistance to the Ministry of Housing and Urban Affairs (MoHUA), Government of India (GoI) to implement the Swachh Bharat Mission (Urban) and Ministry of Jal Shakti, GoI to implement the Swachh Bharat Mission (Gramin) and National Jal Jeevan Mission. WASH Institute operates from nine states of India.

WASH Academy is an academic wing of WASH Institute in affiliation with the Madurai Kamaraj University and Government of Tamil Nadu. The beautiful eco-friendly campus is located at a serene location on the Dindigul – Palani highway in Reddiarchatram, just 15 kms from Dindigul.

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Job opportunities for PGD NSS course

a) Operations manager for water and wastewater treatment facilities, b) Research associates for research institutions or NGOs, c) Water and wastewater experts in local government bodies, d) Researchers in Laboratories for water and wastewater and other similar jobs.