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 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 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
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 Institute has been awarded the “National level Best Sanitation School 2018”.

WASH Institute has been awarded under the category of "Water initiatives by NGO" by Hon’ble Minister of Jal Shakti, Shri Gajendra Singh Shekhawat and Shri Upendra Prasad Singh, Secretary, Ministry of Jal Shakti at the 7th edition of FICCI Water Awards 2020 on Sustainable water management.

Formal Course Centre

WASH Institute has a Formal Course Centre at Reddiarchatram, Dindigul, Tamil Nadu which conducts courses in affiliation with Madurai Kamaraj University.

Placement History

Working as Sanitary Inspectors with various State and National bodies.

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.