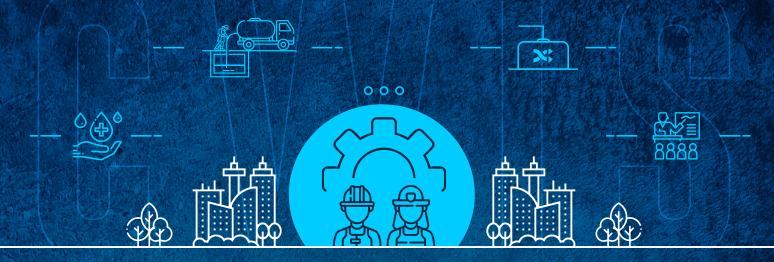


Administrative Staff College of India Leadership through Learning







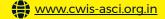
Online Certification Course on LEADERSHIP DEVELOPMENT FOR

CITY-WIDE NCLUSIVE SANTATION

Advancing the achievement of sanitation goals under SDG 6, SBM & AMRUT goals

COHORT - 1**28 NOVEMBER 2020 - 6 FEBRUARY 2021**

Course Booklet



COHORT-1



About the Course

Lack of proper sanitation is a long-running development issue that remains stubbornly difficult to resolve. Cities in South Asia face a large burden of untreated faecal waste entering the environment causing public health and environmental risks.

City-wide inclusive sanitation (CWIS) looks to shift the urban sanitation paradigm and prioritizes equity, public and environmental health, and co-existence of a range of solutions – sewered and non-sewered, centralized and decentralized - tailored to the requirements of the cities. CWIS focuses on service provision and its enabling environment, and not on building infrastructure alone.

This ASCI-ADBI-i.school course aimed to develop skilled urban professionals equipped with a practical and comprehensive understanding of CWIS by amalgamating global knowledge and best practices with on-field implementation experiences in South Asia. It provided a step-by-step approach to the safe, inclusive, and sustainable management of sanitation in South Asian cities. The course was particularly helpful for professionals working towards achieving sanitation goals under SDG 6, SBM 2.0 and AMRUT 2.0.



Core Objective of the Course

The main objective of the course was to equip urban practitioners with knowledge and skills to contribute to the practice and research in city-wide inclusive sanitation. It aimed to build a cadre of sanitation professionals to take a leadership role in the sector.

Course Outcomes



Evaluate the complexity of urban sanitation and its impact on health, the environment, people, and economy



Critically examine policy and regulatory frameworks for achieving universal, pro-poor, and gender inclusive sanitation in urban areas, with a focus on non-sewered/faecal sludge and septage management



Describe the principles of city-wide inclusive sanitation and pathways for implementation



Demonstrate knowledge of faecal sludge and septage management technologies across the sanitation value chain



Apply tools and frameworks for sustainable sanitation planning, funding, implementation, and monitoring



Create a practical action plan for city-wide inclusive sanitation in urban areas of varying size and nature



Ideate and formalize innovations and social enterprises to support city-wide inclusive sanitation implementation at scale



Course Coverage

The course covered the following modules:

MODULE

Overview of Urban Sanitation and Introduction to FSSM



- Overview of urban sanitation: context and challenges
- Sustainable Development Goals linked to sanitation and their implications on India
- Importance of Faecal Sludge and Septage Management (FSSM) and Non-sewer sanitation (NSS)
- Sustainable Development Goals linked to sanitation and their implications on India

MODULE

City-Wide Inclusive Sanitation (CWIS) for achieving Urban Sanitation SDGs

Understanding the principles of City-Wide Inclusive Sanitation (CWIS)

Review of national and international best practices in CWIS







- Environmental laws, regulations, and discharge standards related to wastewater & faecal sludge
- Characteristics of faecal sludge
- Sampling and laboratory methods for waste characterization

MODULE



- Integration gender in sanitation policy and implementation
- Institutional mechanisms for gender equity in sanitation access, decision making and service delivery
- Designing gender inclusive sanitation facilities
- Sanitation livelihoods and entrepreneurship for women

MODULE 5

Frameworks and Tools for Sanitation Planning

- FSSM Planning Framework
- FSSM Toolbox
- Shit Flow Diagram: Mapping Sanitation situation
- Sanitation Risk Assessment

MODULE **6**

Designing Onsite Sanitation Systems – Containment

- Safe on-site containment systems: Design guidelines
- Integration of toilet containment in building permission regulations
- Low cost sanitation systems Small bore sewer system, Shallow sewer system, Re-invent toilet etc.
- Science and technology for wastewater management (black water and grey water, pollution load, pollution load reduction planning, eutrophication and counter measures, on-site wastewater treatment technology for pollution load reduction and measures against eutrophication, etc.)
- Onsite wastewater treatment systems (Johkasou and similar on-site wastewater treatment systems)

MODULE

Designing Onsite Sanitation Systems – Emptying and Transportation



- Regulations & Monitoring of desludging activities
- Mechanical desludging processes
- Safety and wellbeing of sanitation work force
- Importance and economics of Scheduled desludging

- 8888
- Development of social business for FSM reuse

MODULE **9**



- Technology options for treating Faecal sludge: Standalone plants, co-treatment of septage in STPs
- Design approach
- Technology selection
- Environmental permits & discharge norms
- Operations & Maintenance of Treatment plant
- Reuse market of treated biosolids and wastewater
- Best Practices and Implementation experiences

MODULE 10





- Case studies of BCC campaigns roll out
- Impact Assessment of Communication campaigns

MODULE

Protocols for Monitoring, Evaluating and Benchmarking to Promote Learning



- Sanitation monitoring frameworks Global and national
- MLE tools
- CWIS monitoring dashboard
- Developing an FSSM Action plan for a city

MODULE 12





- Estimating life cycle cost of FSSM
- Tools for financial planning
- Financing models
- Public Private Partnership Models in FSSM



Pedagogy

The course was delivered online using a combination of pedagogical approaches comprising:

Self-study of course materials requiring approximately

4 hours per week

The course materials comprised policy notes, best practice videos, handbooks, and a slide deck for every module. Weblinks to other relevant literature were provided for additional reading.

Experience sharing and direct interaction series

for 2 hours duration every week

The participants would benefit from listening to lectures and panel discussions by experts on topics of global relevance every week, usually on a Saturday. The participants interacted with the experts, shared their experiences and has extensive discussions during questions and answers slot after every session. A range of technology tools (mentimeter, slido etc) were used to make the sessions participative.

Social Innovation Workshops by i.school

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The participants learned about establishing a social business for FSSM through a unique innovation education program started in 2009 at The University of Tokyo by i.school. The i.school's innovation workshop methodology was a useful skill for capacity building and supporting the ongoing initiatives of social issue problemsolving. It mainly used analogical thinking and cognitive techniques to develop the right mindset and skillset. The participants enjoyed the process and it helped them to think in a different way to confidently come up with new ideas. The structured discussions served to change the mindset of participants and contributed to changing the way of engaging with these problems. Two workshops of 3-hour duration each were conducted with a focus on learning the process of ideating and implementing innovative solutions for social issues with a human-centered approach. The online workshops were conducted using Zoom and APISNOTE, a WEB tool for digital sticky notes.

Discussion forums



A discussion forum was active for the entire duration of the course to facilitate detailed discussions, doubts clarification, and interaction between participants and the course instructors. Additionally, topical discussion forums were created by the participants for detailed exchanges on specific topics of interest. Topics ranged from technology to softer aspects such as leadership skills, time management, team building, stakeholder management, media management, negotiations etc.



Group interactions & Peer learning

Breakout rooms were made available for small group interactions on specific areas of interest. These were guided by the course coordinator. The breakout rooms were useful for discussing various CWIS initiatives, implementation challenges, and problem solving.



Case study development

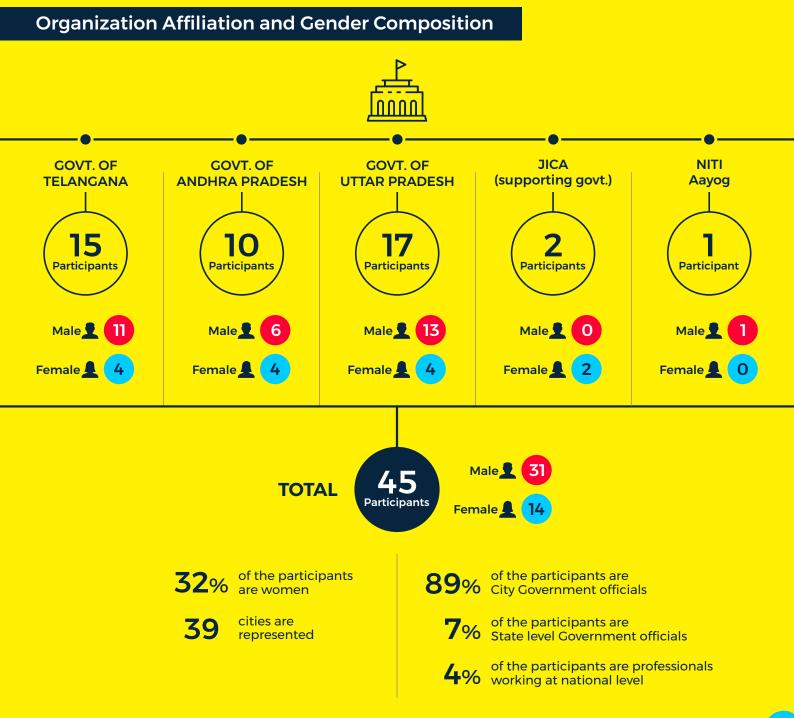
Each participant developed a real-life case study on the aspects of CWIS as per the guidelines provided. Participants were given feedback by their peers and course directors to refine the case study.

Participant Profile

The course that was announced in the month of October 2020 has received phenomenal response. A total of 220 applications were received comprising 200 city officials and 20 representatives from NGOs / academic and research organisations. Detailed interviews were held with the applicants to understand their motivation for applying, expectations from the course and willingness to devote time and actively participate over the entire duration of the course. The free-flowing conversations also helped in assessing the applicant's current and intended involvement in driving positive change in sanitation service delivery in India.

The stringent screening process led to the selection of **45 candidates** who are sure to emerge as sanitation change champions. These participants forming Cohort-I of this online certificate course offered jointly by ADBI-ASCI-i.school have expressed tremendous commitment to join the course despite their busy schedules.

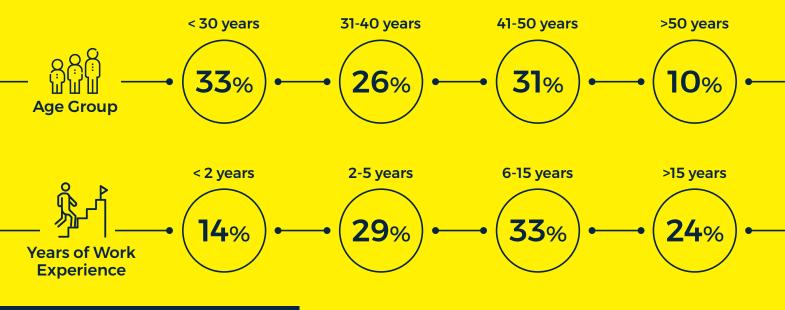
The participant profile of Cohort-I is as below:



Age and Work Experience

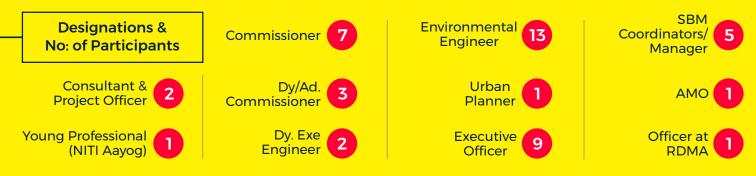
There is a balanced representation from different age groups

- Majority (64%) of the participants are in the age group of 31-50 years.
- Young professionals (below 30 years of age) constitute **26**% of the cohort.
- **57%** of the participants have more than 5 years of experience in government sector
- **24**% of the participants have more than 15 years of work experience
- **43**% of the participants have up to 5 years of work experience



Roles and Designations

The participants include officers from the state level and city level. Regional Directors of Municipal Administration, Commissioners and Deputy Commissioners, and middle-level staff includes Environmental Engineers, Executive Officers and Assistant Medical Officers, State-level Swachh Bharat Mission coordinators, Young Professional (NITI Aayog) are also part of the cohort.



All the participants in the cohort are directly involved in sanitation sector. Most of them head the sanitation department or activities which include planning, execution, monitoring to supervision and coordination between the departments and officials. Some of the participants are also involved in maintaining and monitoring the Management Information Systems (MIS) portals and conducting Information Education and Communication (IEC) programs and behavior change communication campaigns.

We are proud of our CWIS change champions and look forward to learning about their initiatives and progress towards safe, equitable and sustainable sanitation.

Course Directors



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Resource Persons Page-1



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Resource Persons Page-3



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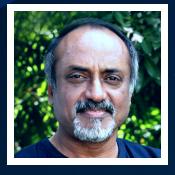
BBC Media Action



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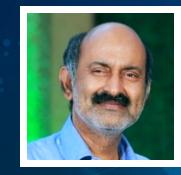
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