

**ONLINE NATIONAL PROGRAMME  
FOR TRAINING  
OF SCIENTISTS & TECHNOLOGISTS WORKING IN  
GOVT.SECTOR  
ON  
SUSTAINABILITY AND SMART CITY CONCEPT**

**16<sup>th</sup> – 20<sup>nd</sup> November, 2020**

**Coordinators**

**Dr. Sanjay Sharma, Professor  
In-charge Centre for Clean Technologies and  
Sustainable Development**

**Dr. Amit Goyal  
Assistant Professor, Department of Civil Engineering  
Member, Centre for Clean Technologies and  
Sustainable Development**



**Sponsored by**



**Department of Science & Technology  
Ministry of Science & Technology**

**Organized By**



**Centre For Clean Technologies and Sustainable  
Development  
National Institute of Technical Teachers  
Training and Research, Chandigarh  
(MHRD, GOVT. OF INDIA)**

**ABOUT TRAINING PROGRAMME**

The Indian economy has been one of the fastest growing economies in the world and it has become imperative to transform Indian cities into more efficient, sustainable and livable model of urban development, specifically the concept of 'sustainable or resilient cities'.

'100 Smart Cities Mission' was launched in 2015 by the Ministry of Housing and Urban Affairs, GOI which supports environmentally, culturally and socially sustainable city building initiatives. It also provides a direction for cities to address global issues such as increased urbanization, global warming and climate change, continued growth in traffic congestion and socio-demographic changes in a local context.

NITTTR, Chandigarh is organizing DST sponsored National Training program on '**Sustainability and Smart City Concept**' for scientists and technologists working in the government sector in order sensitize the workforce regarding the dynamics of Indian cities and learn smart ways to plan , manage and maintain them.

**COURSE OBJECTIVES**

- Define the concept of Smart Cities and understand various components of Smart Cities
- Identify and apply a systematic, strategic planning approach for developing, implementation & design of Smart Cities
- Understand the significance of Green Building concept and sustainable technologies for development of smart cities

- Understand the role and relevance of various stakeholders for the development of Smart Cities
- Build capacity of administrative and technical staff in government sector for effective incorporation of smart city concept.

**BROAD COURSE CONTENTS**

- Smart city concept in India background, history and indexes to measure sustainability
- Smart Cities Global Standards and Performance Benchmarks, Practice Codes
- Smart environment and smart energy
- Smart waste management technology
- Smart water management techniques
- Introduction to Green buildings, their rating systems (LEED, GRIHA, IGBC) and credentials.
- Smart governance and smart urban mobility
- IT connectivity and Digitization
- Smart Power grid project
- Internet of smart things

**METHODOLOGY**

The training will include lectures, exercises, discussions, group work and case discussion, film show.

## PARTICIPANTS

This is a DST sponsored training programme. The institute will select 25 engineers/scientists/technologists (strictly from the government sector) in discussion with DST, maintaining regional diversity and groups' heterogeneity in ranks. Upper age limit for participants for attending program is 58 years.

## DURATION

Online programme is scheduled from 16<sup>th</sup> to 20<sup>nd</sup> November, 2020 i.e. 5 days duration, which includes Group Discussions/Assignments regarding sustainability and smart city concepts.

## VENUE AND ADDED ATTRACTION

NITTTR, Chandigarh has been established by Ministry of Human Resource Development, Government of India for the development of Technical Education. The institute has excellent laboratories, library, computer centre and modern reprographic and other production facilities.

Centre for Clean Technologies and Sustainable Development (CCTSD) at NITTTR, Chandigarh has been set up to meet the increasing need of pollution prevention and adoption of sustainable practises in every sphere. The centre also imparts training in addition to activities like R&D and consultancy etc.

**The programme will be conducted on Online mode through Google-meet. Online link will be sent to all the selected candidates.** Candidates

need to register themselves on NITTTR, Chandigarh web site i.e [www.nitttrchd.ac.in](http://www.nitttrchd.ac.in).

## OTHER DETAILS

No accommodation facility in guest house and hostel will be provided within institute campus.

## KEY FACULTY

**Dr. S. S Pattnaik**, Director, NITTTR, Chandigarh  
**Dr. Sanjay Sharma**, Professor and Head, Civil Engineering Deptt. NITTTR  
**Dr. Ashok Sharma**, CEO, Cleantech International foundation, New Delhi  
**Dr. Amit Goyal**, Assistant Professor, Civil Engineering Department, NITTTR.  
**Er. Himmi Gupta**, Assistant Professor, Civil Engineering Department, NITTTR.

## REGISTRATION

Participants need to register themselves on NITTTR, Chandigarh website [www.nitttrchd.ac.in](http://www.nitttrchd.ac.in) latest by 6<sup>th</sup> November, 2020. For any query participants can contact: **Dr. Sanjay Sharma, Professor and Head, Deptt. Of Civil Engineering, NITTTR, Chandigarh** or **Dr. Amit Goyal, Assistant Professor, Deptt of Civil Engineering, NITTTR, Chandigarh.**

Email: [sanjaysharmachd@yahoo.com](mailto:sanjaysharmachd@yahoo.com),  
[amitgoyal@nitttrchd.ac.in](mailto:amitgoyal@nitttrchd.ac.in)

M: 09872005961, 9417569559

Landline: 0172-2759514, 2759728

## REGISTRATION FORM

### NATIONAL PROGRAMME FOR TRAINING OF SCIENTISTS & TECHNOLOGISTS WORKING IN GOVT.SECTOR ON

### SUSTAINABILITY AND SMART CITY CONCEPT

18-22 November, 2019

1. Name: Dr./Mr./Ms.....
2. DOB: .....Age:.....
3. Academic Qualification:.....
4. Designation/Deptt: .....
5. Area of Specialization:.....
6. Phone:.....
7. Email:.....
8. Address:.....
9. Pin Code:.....
10. Need Accommodation : Y/N

Signature of Applicant

Forwarded by Head