A one week FDP on
Composting Technologies for Municipal Solid Waste Management

By
National Institute of Technology Warangal
January 4 - 8, 2021

About NIT Warangal
National Institute of Technology Warangal was established during the year 1959 and over the last 5 decades has emerged as a premier technical institution of national importance. NITW has good infrastructure, highly qualified and motivated faculty and attracts high caliber students. 9 undergraduate programs and 25 postgraduate programs are successfully run by NITW, besides doctoral programs in all the departments.

About Civil Engineering Department
One of the oldest departments of the college with one undergraduate and 7 postgraduate programs, the department is privileged to be recognized as one of the best civil engineering departments in the country. It was the only department to have been recognized as a QIP center right from 1972 and now all the departments are QIP centers. The department has excellent labs to cater to both UG, PG and research programs. The Water & Environment Division is one of the four divisions of the department.

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REGISTRATION FORM
A one week FDP on
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AICTE Training and Learning (ATAL) Academy

Name in full :
Designation :
Organization/Dept:
Postal address with e-mail: and Mobile No.

Education Qualification :
Experience & field of specialization:

Whether accommodation is required (Tick): Yes/No
Place:
Date:

Signature:
Signature of the sponsoring authority: (with office seal)

Note:
1. Photocopies of the Registration form can also be used.
2. Advance copy of the duly filled registration forms may be forwarded to mail ID: mcsnitw@gmail.com or by post to the coordinator.
3. AICTE link for online application
https://atalacademy.aicte-india.org/signup
**Background**

With increasing urbanization and changing lifestyles, Indian cities now generate 8 times more solid wastes than they used to during the last decade. Municipal solid waste management (MSWM), a critical element towards sustainable metropolitan development, comprises segregation, storage, collection, relocation, processing and disposal of solid waste to minimize its adverse impact on environment. Unmanaged MSW becomes a factor for propagation of innumerable ailments.

MSW in India has approximate 40–60% compostable, 30–50% inert waste and 10% to 30% recyclable. The waste generated in India has more organic content. Out of numerous solid waste management techniques, composting can take a huge share in MSWM in India due to its major composition. Composting techniques have various advantages such as production of bio-fertilizers, organic manure, relatively low air and water pollution, low operational cost and has comparatively high income generation. Composting is eco-friendly technique for managing municipal solid waste without creating negative impact on the environment and maintaining sustainability.

**Objective**

This Faculty Development Program (FDP) aims at providing exposure on technical and management aspects of various Municipal Solid Waste Management challenges with specific reference to composting technologies and other related aspects of sustainable management of solid wastes.

The key deliverables of this programme will be:
- Characteristics of MSW
- Challenges in Solid Waste Management
- Municipal Solid Waste Management Techniques
- Composting Technologies
- Process of Composting
- Maintenance of Compost Pits
- Assessment of Compost Quality
- Marketing of Compost

**Course contents**

- Municipal Solid Waste Management Technologies
- Wealth Out of Waste
- Waste Management - 5R: Refuse, Reduce, Reuse, Repurpose, Recycle
- Composting Technologies
- Composting Process, Issues, Challenges
- Regulations for maintaining Compost pits
- Analysis of Compost Quality
- Opportunities in Composting Technologies
- Entrepreneurship and Market Integration

**Resource persons**

Eminent personalities and experts from industry along with faculty of Civil Engineering at NIT Warangal are the resource persons. Faculty from IITs and Central/State Funded Research Institutions and from Industry sector will be delivering the lectures on various technical aspects.

**Registration**

There registration details of the course will be intimated later. Participants are to check the institute website for regular updates on the course and schedules.

**Venue**

The workshop will be held in the Seminar Hall Complex of the NIT Warangal. The nearest railway station is the KaziPet Junction, which is about 3 kms from the NIT campus. Warangal Railway Station is at about 15 km from the campus. The nearest airport is at Hyderabad, which is about 175 km from the campus. Warangal is connected to Hyderabad by NH 163 and the travel time varies from 3-4 hours.

**Participants**

The workshop is aimed at researchers, academicians, scientists, the upper and middle level engineers/officers working in public health engineering department, designers, planners, policymakers, municipal corporations, municipalities, industrial townships, and urban development authorities, related Industrialists, involved in the planning, development, and management of municipal solid waste.