

**AICTE Training and Learning  
(ATAL) Academy Sponsored  
online FDP on  
Emerging Technologies for  
Sustainable Environmental  
Management -2021**



**Duration:** 31<sup>st</sup> May - 4<sup>th</sup> June,  
2021

**Coordinators**

**Dr. Anantha Singh T.S.**

**Dr. Aswathy E.V**

**Dr. George K Varghese**

**Organized by**

**Department of Civil Engineering**



**National Institute of Technology  
Calicut  
NIT Campus P.O., Kozhikode –  
673601**

**AICTE Training and Learning  
(ATAL) Academy**

AICTE Training and Learning (ATAL) Academy is established to empower faculty to achieve goals of Higher Education such as access, equity, and quality. AICTE is committed for the development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development e.g. SWAYAM, MOOCs, Start-up Initiatives, Prime Minister Kaushal Vikas Yojana, Sansad Adarsh Gram Yojana (SAGY), Swachh Bharat/ Unnat Bharat Abhiyan, Yoga Activities etc. Council understand that there is a need of the day to train the young generation in the skill sector and having faculty & technicians to be trained in their respective disciplines. It was felt that training with the latest tools and technologies is vital to keeping an institute competitive and more productive. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies. It also transforms them to harmonize with society and most importantly to make them a good citizen of the country.

**About NIT Calicut**



National Institute of Technology Calicut was founded as Regional Engineering College, Calicut in 1961. Set in a picturesque at the foothills of the Western Ghats, it is located about 22 km north-east of Calicut city. It is a prestigious institute with a reputation for excellence at both undergraduate, postgraduate and research levels, fostering the spirit of national integration among the students and a close interaction with industry.

**Course Duration**

The FDP is scheduled for 5 days comprising 14 sessions including one lecture on stress management.

**Course Objective**

The main objective of the proposed course is to develop a good understanding on the various emerging techniques for monitoring analysis and treatment of emerging micro-pollutants in the environment. The

emerging technologies in the field of air, water and wastewater quality especially micro-pollutants analysis and modelling will also be introduced to the participants.

## Topics Covered

- Emerging technologies for Environment monitoring
- Air quality monitoring and modelling
- Application of sensors for air pollutant analysis and monitoring
- Advanced physio-chemical treatment of potable water and wastewater
- Risk Assessment of Emerging Contaminates
- Toxicity analysis and treatment of heavy metals from water and wastewater
- Plasma and incineration technologies for the treatment of solid waste and waste to energy conversion
- Effective Management of Solid waste and application of sensors on the segregation of solid waste
- Advanced instrumentation on the online monitoring of air, water and wastewater pollutants
- Life and stress management

## Course Outcomes

On completion of this course, participants are expected to gain better understanding on different emerging micro-pollutants present in the environment, instrumentation required for their identification and

analysis, and knowledge on advanced treatment techniques for different micro pollutants. The participants will also gain knowledge on risk and toxicity assessment for micro-pollutants and on latest techniques for efficient solid waste management.

## Resource Persons

Dr. R. Ravikrishna, IIT Madras  
Dr. Sachin S. Gunthe, IIT Madras  
Dr. Ligy Philip, IIT Madras  
Dr. Arun Kumar, IIT Delhi  
Dr. Babu J. Alappat, IIT Delhi  
Dr. Remya N, IIT Bhubaneswar  
Dr. S. T Ramesh, NIT Trichy  
Dr. Shihabudeen M. Maliyekkal, IIT Tirupati  
Dr. Nidheesh P.V., NEERI Nagpur  
Dr. Sudhir Kumar Nema, IPR, Gandhinagar  
Dr. M.K Ravivarma, NITC  
Dr. Aneesh T, NITC.  
And experts from Research Institute and Instrumentation Companies

## Who should attend?

- The participants to the course will be faculties, Ph.D. Scholars and PG Students from AICTE approved technical institutions.
- **No Registration fee from any participant** (Max. 200 participants).

- On completion of the programme successfully for 5 days, participants will be awarded an E-Certificate of participation through ATAL Academy.

## Selection and Certification Criteria

Selection is made based on a first-come, first-serve basis, and priority will be given to those who have not attended ATAL FDP earlier.

Minimum 80% attendance and 60% marks in the online test at the end of the FDP are compulsory for certification.

The final list of selected candidate for the program will be notified on or before **25<sup>th</sup> May 2021**.

## How to Apply?

The participant has to register through ATAL portal <https://atalacademy.aicte-india.org/signup>

**Venue:** Online (WebEx), Content Delivery and Exam through Moodle Based Learning Management system.

## For query contact:

Name: **Dr. Anantha Singh T.S**

email id: [singh87@nitc.ac.in](mailto:singh87@nitc.ac.in)

Name: **Dr. Aswathy E.V**

email id: [aswathy@nitc.ac.in](mailto:aswathy@nitc.ac.in)

Name: **Dr. George. K Varghese**

email id: [gkv@nitc.ac.in](mailto:gkv@nitc.ac.in)