

## Preamble

Engineering education has seen lot of changes in the last few years. The increased use of information and communication technology and scientific advancements has increased the responsibility of teachers who teach engineering. The rapid growth in the number of engineering colleges, particularly in the private sector has led to deterioration in the quality. The diversity in the student population, changes in the culture and tradition, improvement in the quality of life and 'digitally smart' and intelligent students have all increased the challenges of the teachers. The need for quality improvement in technical education has resulted in initiatives like ISO standards, TQM and accreditation. Outcome Based Education (OBE) is the order of the day. Thus for engineering teachers, the focus has shifted from just teaching, evaluation and marks to teaching-learning process, continuous evaluation, learning outcomes, course outcomes, program outcomes and finally performance of the students after graduation. Teachers need to be facilitators and support the student learning. Teachers in India lack the understanding that 'teaching engineering', for that matter any discipline is a science and there is lot of research going on to develop better pedagogies for student learning and there is a need to understand issues like teaching-learning styles, adopting technology, use of internet and E-resources, engaging students in the class, student discipline, undertaking research etc. Outcome Based Education is being adopted by all higher educational institutions / Universities in India. There is a need to train the newly recruited and junior faculty about the same.

In this context this six day AICTE-ISTE Induction Program is being organized to train faculty in some important issues related to teaching engineering and pedagogy and how it can help in effective implementation of OBE. It will help the faculty to handle the new challenges of the teaching-learning process. This induction program will help the teachers to better prepare for their classes and deliver their course content in the most effective way and help in OBE implementation in their respective colleges.



## About the Institute

Nitte Mahalinga Adyanthaya Memorial Institute of Technology, affiliated to VTU, Belagavi is an autonomous Institution offering UG, PG and Doctoral programmes. It is a unit of Nitte Education Trust, Mangalore. It currently offers 7 UG programmes in engineering, 10 M.Tech programmes, MBA and MCA programmes. Most of its UG programs are accredited by NBA, New Delhi and it is an ISO 9001:2015 certified Institution. It has been recognized as a 'Lead Institution' under the World Bank Funded TEQIP programme (both Phase I & II). It has been recently accredited by NAAC with A grade.

## Resource Persons

Internal and external resource persons from reputed organizations including NITTTRs will handle different sessions.

## Participants

Faculty members from Engineering Colleges. Preference will be given to the participants having ISTE Life Membership.

## Topics to be covered

- Significance of teaching engineering
- Teaching methods and styles - pedagogy
- Designing the course contents
- Evaluation and assessment
- Problem solving & Creativity
- Role of an engineering teacher
- Outcome based Education and its Implementation
- NBA Accreditation process
- Bloom's taxonomy
- Learning Management System through Moodle
- Learning through Virtual Laboratory
- Student guidance and Counselling
- Presentation tools for the classroom
- Stress Management

## Registration

Registration will be done on 'FIRST COME FIRST SERVED' basis. Number of participants restricted to 40. Complete the registration form. Copy of the course materials will be made available to participants.

# AICTE - ISTE INDUCTION PROGRAMME

on

## Teaching Engineering & Pedagogy for Effective Implementation of Outcome Based Education

July 16 - 21, 2018



Coordinators

Dr. Srinivasa Pai P.

Dr. K. Subrahmanya Bhat

Organised by



(An Autonomous Institution affiliated to VTU, Belagavi)

ISO 9001:2015 Certified

Approved by AICTE, New Delhi

Accredited by NAAC with 'A' Grade

Nitte - 574110, Karkala Taluk, Udipi District  
Karnataka, India

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Website: [nmamit.nitte.edu.in](http://nmamit.nitte.edu.in)

## Organizing Committee

### Chief Patron:

**Shri N. V. Hegde**

President, Nitte Education Trust, Mangalore  
Chancellor, NITTE (Deemed to be University)

### Patron:

**Dr. Niranjan N. Chiplunkar**

Principal, NMAMIT, Nitte

### Chief Coordinator:

**Dr. Shashikantha Karinka**

HOD, Dept. of Mech. Engg.

### Coordinators:

**Dr. Srinivasa Pai P.,**

Professor, Dept. of Mech. Engg.

**Dr. K.Subrahmanya Bhat,**

Dean- Student Welfare

### Members:

**Dr. Shrinivasa Rao B.R.,** Vice Principal & COE

**Dr. I. R. Mithanthaya,** Vice Principal & Dean (Academics)

**Prof. Dr. A.N. Parameswaran,** Director, IIC

**Dr. Sudesh Bekal,** Dean (R & D)

**Dr. K.Rajesh Shetty,** Dean (A & AA)

**Dr. Muralidhara,** PG Coordinator

**Shri Yogesh Hegde,** Registrar

**Dr. Srinath Shetty, K.,** Resident Engineer

**Mr. Vasudev Pai,** Dept. of ISE Engg., ISTE Coordinator

**Mrs. Rashmi P. Shetty,** Asst. Prof., Dept. of Mech. Engg.

**Mr. Adarsh A. Rai,** Asst. Prof., Dept. of Mech. Engg.

**Mr. Grynal D'Mello,** Asst. Prof., Dept. of Mech. Engg.

**Mr. Bhaskar P. Achar,** Asst. Prof., Dept. of Mech. Engg.

**Mr. Gouthama Hebbar,** Asst. Prof., Dept. of Mech. Engg.

**Mr. Krishna Prasad,** Asst. Prof., Dept. of Mech. Engg.

**Mr. Srinivas Prabhu,** Asst. Prof., Dept. of Mech. Engg.

### Accommodation:

Free Accommodation will be made available in hostel/ guest house (twin sharing) on first come first served basis.

### Outcomes from this Induction Programme:

- \* To know that 'teaching engineering' is not only art, but also has science behind it.
- \* To prepare properly for the course he or she teaches including lesson plan, planning the class sessions, evaluation through various modes, applying different pedagogies and understanding the student's needs.
- \* To know about OBE and OBA.
- \* To apply Bloom's taxonomy for preparing the questions for tests and exams, understand the significance of different levels.
- \* To effectively use ICT in the teaching-learning process, moodle and virtual laboratory.
- \* To be an effective student guide, facilitator and counselor.

### IMPORTANT DATES

**Last date for Registration: July 02, 2018**

**Confirmation of Registration: July 07, 2018**

### CONTACT COORDINATORS

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**Dr. K. Subrahmanya Bhat**

**Mobile: +919449258142**

**Email: subrahmanyabhat@nitte.edu.in**

**The duly filled application form is to be sent to  
Dr. Srinivasa Pai P.  
Professor, Dept. of Mechanical Engineering,  
NMAM Institute of Technology, Nitte - 574110,  
Karnataka**

**AICTE-ISTE INDUCTION PROGRAMME**

on

**Teaching Engineering & Pedagogy  
for Effective implementation of  
Outcome Based Education**



**July 16 - 21, 2018**



### Registration Form

Name: .....

Affiliation: .....

Department: .....

Telephone No.: .....

Email: .....

ISTE Life Membership No.: .....

Accommodation Required: Yes/ No

The given information is true to the best of my knowledge.  
I agree to abide by the rules and regulation governing the  
program. If selected, I shall attend the course for the entire  
duration.

Place:

Date:

Signature  
(Candidate)

Signature  
(Head of Institution/ Department)