



**MAR BASELIOS**  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
**AUTONOMOUS**

Mar Ivanios Vidyanagar, Nalanchira,  
Thiruvananthapuram- 695015

All B.Tech Programmes Accredited by NBA since 2016 | A NAAC "A" Graded Institution

ONLINE SHORT TERM TRAINING PROGRAMME ON  
**“ HIGH PERFORMANCE COMPUTING AND DEEP  
LEARNING FOR IMAGE & TEXT ANALYSIS ”**

Sponsored by



अखिल भारतीय तकनीकी शिक्षा परिषद्  
All India Council for Technical Education

**LEADINGINDIA.AE**  
NATIONWIDE AI SKILLING & RESEARCH INITIATIVE

Organised by

**Department of Computer Science and Engineering**

**February 22 - February 27, 2021**



## About the Institution

As a proud part of the Mar Ivanios Vidyanagar on the blessed Bethany Hills, deriving the inner strength of truth and goodness from the visionary Patrons, MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY (MBCET) inspires the aspirations of generations of knowledge-seekers. Dedicated to mould morally upright, socially committed and intellectually trained Engineers, the College strives to realize its dreams.

## About the Department

The Department offers courses that emphasize the fundamental concepts of Computer Science and Engineering, treating today's systems as current examples of the underlying concepts. By educating students to think conceptually, we are preparing them to adapt themselves to the developments in this dynamic field. Our alumni have moved on to a wide range of careers that include software development and design, software testing, artificial intelligence, and other technical computing professions.

## About the Programme

In recent years, major breakthroughs were achieved in different fields using deep learning. From image segmentation, speech recognition or self-driving cars, deep learning is everywhere. Performance of image classification, segmentation, localization have reached levels not seen before thanks to GPUs and large scale GPU-based deployments, leading deep learning to be a first class HPC workload. This Short Term Training Programme (STTP) is intended to provide opportunities for teachers and researchers for upgrading their knowledge and acquiring practical skills in the area of deep learning. The objective of the programme is to help the faculty learn the principles of deep learning and understand how to build deep neural networks for solving problems in image and text analysis. They will practice the ideas in Python tools such as TensorFlow, Theano, and Keras. The STTP will equip them to use and teach deep learning for various machine learning tasks and expose them to the challenges in deep learning research.



## **Benefits of the Course**

- Hands-on exposure to HPC.
- Exposure to Convergence to HPC and AI.
- Hands-on experience in working with different software will be provided in Deep Learning .
- Workshop on latest techniques across variety of application domain.

## **Course Content**

- Machine Learning Basics
- Deep Learning Frameworks
- Regularization for Deep Learning
- Optimization for Training Deep Models
- Convolutional Networks
- Recurrent Networks and Recursive Networks
- Auto encoders
- Boltzmann Machine
- Deep Belief Networks
- Deep Learning for Image Analysis
- Deep Learning for NLP & Text Analysis
- Hand-on sessions using Python and tools such as TensorFlow, Theano, Keras, etc.

## **Resource Persons**

Experts from various premiere institutes and professionals from industry will conduct the sessions.



## Who can Apply?

The program is open to Faculty & Research Scholars of Engineering Colleges, Universities and other allied disciplines. Industry persons working in the concerned / allied areas can also apply.

## How to Apply?

- The participants have to fill and submit the Google Form attached.
- For any clarification contact programme coordinators or e-mail to [dlworkshopmbcet2021@gmail.com](mailto:dlworkshopmbcet2021@gmail.com)

## Important Dates

- **Last Date of Registration : 10/02/2021**
- **Confirmation of Registration : 19/02/2021**

### Program Coordinator :

Tessy Mathew, HOD, CSE Department

### Co-Cordinators:

Ms. Jesna Mohan Ph:9497467715

Mr. Ramjith R P Ph: 9746314160



**Register at:**

<https://qrgo.page.link/ztd8P>

**No Registration Fee**

