

Technical Education Quality
Improvement Programme (TEQIP)
Phase II

03-03-2014 to 07-03-2014

5 Days Faculty Development Program On

**MACHINE LEARNING
TECHNIQUES AND ITS
APPLICATIONS**

Coordinators

SONY P

PRAMOD MATHEW JACOB

JUDY ANN JOY



Organized By

**College of Engineering
Cherthala**

(Managed by IHRD, Govt. Of Kerala)

Pallipuram P. O,

Alappuzha - 688541

Kerala, India

Tel: 0478-2553416

E-mail: cecherthala@gmail.com

HOW TO REACH CEC

Road:

30 km from the Ernakulam City, take diversion from Aroor Temple Junction to Pallipuram or 7 km from Cherthala Town; Just take the Cherthala - Pallipuram - Arukutty route.

Rail:

The College is just 8 km from Cherthala Railway station, the only railway station in Kerala facing the NH 47. You can reach CEC through buses heading for Aroor, Arookutty or Thaikkaattussery.

Water:

Spare 12 min by Ferry through Vembanadu Lake from Vaikom Ferry and reach Thavanakadavu. Autos are available from Thavanakkadavu to CEC.

CONTACT INFORMATION

Sony P

Assistant Professor

Computer Science &

Engineering

Mob: +919895999790

REGISTRATION FORM

Name:-----

Designation:-----

Department:-----

Address:-----

Mobile Number:-----

E-mail :-----

Signature of the participant:

SPONSORSHIP CERTIFICATE

Mr/Ms/Dr_____ is a faculty member of our college and his/her application is hereby sponsored for the Faculty Development Program "**Machine Learning Techniques & its Applications**". The applicant would be permitted to attend the program if selected.

**Head of the Institution
(Signature with office seal)**

ABOUT CEC

Established as an autonomous institution by the Government of Kerala under the aegis of the Institute of Human Resources Development (IHRD), College of Engineering Cherthala (CEC) started functioning in the year 2004. CEC is affiliated to prestigious Cochin University of Science and Technology (CUSAT) and recognized by All India Council for Technical Education (AICTE). The College offers three UG and two PG program in engineering. CEC is situated in a sprawling campus of 25 acres, located on the bank of Vembanadu Lake at Pallipuram, which is only 8 km away from Cherthala town and 17 km from upcoming metro Kochi. College is located in a beautiful village atmosphere with sweeping fresh air masses and sumptuous greenery surroundings.

ABOUT THE CSE DEPARTMENT

The Department of Computer Science & Engineering has been in existence since the inception of CEC. The Department offers B.Tech in Computer Science & Engineering and M.Tech (Computer Science) with specialization in Computer & Information Science. Our mission is to generate high caliber Computer Engineers to meet the global demands.

REGISTRATION

The registration is open to all those who are interested. Registration fee of Rs. 500/- will be charged from the external participants. For other details please visit our website:

www.cectl.ac.in

MACHINE LEARNING TECHNIQUES AND ITS APPLICATIONS

Machine learning is the science of getting computers to act without being explicitly programmed. In the past decade, machine learning has given us self-driving cars, practical speech recognition, effective web search, and a vastly improved understanding of the human genome. Machine learning is so pervasive today that you probably use it dozens of times a day without knowing it. Many researchers also think it is the best way to make progress towards human-level AI. In this Workshop, you will learn about the most effective machine learning techniques, and gain practice implementing them and getting them to work for you. More importantly, you'll learn about not only the theoretical underpinnings of learning, but also gain the practical know-how needed to quickly and powerfully apply these techniques to new problems.

This course provides a broad introduction to machine learning, and statistical pattern recognition). The course will also draw from numerous case studies and applications, so that you'll also learn how to apply learning algorithms in various areas.

COURSE CONTENTS

- Overview of machine learning
- Review of mathematical tools
- Supervised Learning (parametric/non-parametric algorithms, support vector machines, kernels, neural networks).
- Unsupervised Learning (clustering, dimensionality reduction, recommender systems, deep learning)
- Pattern Recognition
- Advanced topics (Bayesian approaches, semi-supervised learning, online learning, sparsity etc)

RESOURCE PERSONS

Dr. G. NAGARAJA
Retd. Professor,
Department of CSE,
IIT Bombay

Dr. SUMAM MARY IDICULA
Professor,
Department of CSE,
CUSAT

Dr. P.G.ROMEO
Professor,
Department of Mathematics,
CUSAT

Dr. RAMADEVI S
Associate Professor,
Model Engineering College,
Thrikkakara

Dr. G. SANTHOSH KUMAR
Assistant Professor,
Department of CSE,
CUSAT

Dr. SREERAJ M
Assistant Professor, Department
Of Computer Applications, FISAT,
Angamaly

Mr. ANEES V
PhD Research Scholar,
CUSAT

Mr. PANKAJ KUMAR G
Assistant Professor/ System
Analyst, Department Of CSE,
FISAT, Angamaly