

**AICTE SPONSORED
ONLINE FACULTY DEVELOPMENT
PROGRAMME (PHASE-II)**

On

**Machine Learning and Deep Learning
- An Application Perspective**

07.12.2020 to 19.12.2020

REGISTRATION DETAILS

Participants have to submit an online application with the following registration Link:

<https://forms.gle/KdRyC9ZajtPQEZx3A>

- No Registration fee
- An assessment will be conducted at the end of the program.
- Certificates will be issued to the participants with required attendance and those who qualify the assessment.

IMPORTANT DATES

Last date for registration : 04-12-2020
Intimation of selection : 05-12-2020
The selected candidate will be intimated through email.

ELIGIBILITY FOR PARTICIPATION

This FDP is open to all faculty members of Engineering colleges and Research scholars of AICTE approved Institutions.

CONTACT DETAILS

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**TWO WEEKS ONLINE FACULTY
DEVELOPMENT PROGRAMME
(PHASE- II)**

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Sponsored by

**ALL INDIA COUNCIL FOR TECHNICAL
EDUCATION, New Delhi**



**Coordinator
Dr.C.Kavitha**

Associate Professor, Department of ECE



Organized by

**Department of Electronics and Communication
Engineering**

**SREENIVASA INSTITUTE OF TECHNOLOGY AND
MANAGEMENT STUDIES**

**(Autonomous – NAAC, NBA Accredited)
Murukambattu, Chittoor-517 127, Andhra Pradesh**

www.sitams.org

About SITAMS



Sreenivasa Institute of Technology and Management Studies (SITAMS) was established in 1998 by Late Dr.D.K.Audikesavulu, Former Chairman of Tirumala Tirupati Devasthanams and Ex. MP, Lok Sabha, a Mechanical Engineer by profession and also a prominent industrialist possessing industrial establishments in the states of Karnataka, Tamil Nadu, Andhra Pradesh and Madhya Pradesh. The institution is an Autonomous Institution, achieved 'A' Grade by Andhra Pradesh Higher Education and NAAC accredited Institution. Besides, the institution got NBA for the branch ECE, CSE, MECH for 3 years and MCA for 2 years in 2019-20. The college is offering 6 Undergraduate and 6 Postgraduate courses in Engineering and Management Studies. Here the students are offered a paralleled state of infrastructure to create a highly conducive environment. We are in high spirits and our mirth knows no boundaries to announce that SITAMS, a pioneer of value based education is awarded Accreditation during 2008 to till date by National Board of Accreditation, AICTE, and New Delhi and got Autonomous during 2013-2014.

About Department

The Department of Electronics and Communication Engineering is one of the largest departments of the SITAMS, CHITTOOR. The ECE Department at SITAMS has been a great reputation of excellence in teaching, research and service. With excellent laboratory facilities and dedicated faculty, the department of ECE offers broad range of programs that include undergraduate (B.Tech) and post graduate (M.Tech) in VLSI System design.

The department is periodically reviewed and all have received continuous and ongoing accreditation from the National Board of Accreditation. The UG course was accredited by NBA in 2008 for 3 years, in 2013 for 2 years and in 2019 for 3 years. In 2015, the department was recognized by NAAC for 5 years.

About the FDP

This Faculty Development Programme (FDP) is conducted to enhance the knowledge of faculty in engineering colleges which is very much essential for today's fast growing technological world. Machine and Deep learning has become a unavoidable technology in many different sectors and Industries. Research associated with deep learning is highly technical and specialized with core problems which include programming computers for certain traits such as knowledge, reasoning, problem solving, perception, learning, planning and ability to manipulate. Machine and

deep learning rises towards a future where machines not only do all of the physical work, but also think for planning, strategizing and making decisions. It is widely applied in medical diagnosis, electronic trading platforms, robot control, and remote sensing. This is a better platform in introducing applications with new technologies in all the engineering fields and it is necessary to give a brief insight.

Objectives

The main goal of this FDP is to give a basic understanding of the theory and practice of machine and deep learning and its applications.

Topics to be Covered

- Fundamentals of Machine learning
- Data Representation and Feature extraction
- Supervised machine learning algorithms
- Unsupervised machine learning algorithms
- Neural networks in automobiles
- Neural Networks in Electrical circuits
- Machine learning for multispectral satellite images
- Basics in Deep learning
- Convolution neural network
- Tensor flow and keras
- Deep learning for biomedical images
- Real-time application –case studies

Resource Persons

The resource persons for this programme are from various reputed institutions and from leading industries.