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Ms. Lakshmi S., Asst. Prof., Dept. of CSE, SBCE

Ms. Asha S., Asst. Prof., Dept. of BS, SBCE

Contact Details:

Ms. Lakshmi S. – 9526083404

Ms. Asha S. – 8921068770

Registration link:

<https://forms.gle/2BPuXDAnhPbWK5Je9>



About the Institution

Sree Buddha College of Engineering, Pattoor is established in the year 2002 by Sree Buddha Educational Society, Kollam, which is registered under the Travancore-Cochin Literary, Scientific and Charitable Societies Act, 1955. Under the leadership of Prof. K Sasikumar, a group of educationalists envisaged the emergence of an engineering college on the bank of Karingali puncha in the rural area of Nooranad; the birds village of Kerala, to promote weaker section of the society by providing quality education at global standards. The college which began its stride with three B.Tech programs in 2002, now offers eight B.Tech and six M.Tech/PhD programs in six branches of Engineering and Technology.

The College is affiliated to APJ Abdul Kalam Technological University and is approved by the All India Council for Technical Education (AICTE), New Delhi. The College offers NBA Accredited B.Tech Programs and is Reaccredited by NAAC for another five years since November 2019. The College is also recognized under Section 2(f) of the UGC act, 1956.



SREE BUDDHA COLLEGE OF ENGINEERING

Pattoor P.O., Alappuzha District, Kerala, Pin: 690529

Approved by AICTE & Affiliated to the APJ Abdul Kalam Technological University
A NAAC Accredited Institution with NBA Accredited Programmes

SREE BUDDHA COLLEGE OF ENGINEERING

Pattoor



ONE WEEK FACULTY
DEVELOPMENT PROGRAMME ON
**'MATHEMATICAL FOUNDATIONS
FOR MACHINE LEARNING'**
(Online)



**MARCH
22 - 26**

Sponsored by:
APJ Abdul Kalam Technological University

Jointly Organized by:
Department of Computer Science and Engineering
&
Department of Mathematics and Basic Sciences



Platform : Google Meet



About the Department of Computer Science and Engineering

The Department of Computer Science and Engineering was established in the year 2002. At present, the department offers two B.Tech programs – B.Tech in Computer Science and Engineering and B.Tech in Artificial Intelligence and Machine Learning – with a sanctioned intake of 60 each with a provision of admitting six diploma holders in the third semester under lateral entry scheme. The department also offers M.Tech programme specialized in Computer Science and Engineering from the year 2011. The sanctioned intake at present is 18. The department has well experienced faculty with postgraduate and doctoral qualifications from prestigious institutions with many publications to their credit. The faculty members regularly update their skills by attending and organizing refresher courses, FDPs and Workshops in their areas of specialization. The department also has a very active Computer Society of India (CSI) Accredited Student Branch and a department association named CYBORG which has a very active participation from students as well. Invited lectures by experts drawn from Industries and Academics are also arranged regularly. The department also has well equipped laboratories and computing facility.

About the Department of Mathematics and Basic Sciences:

The Department of Mathematics and Basic Sciences came into existence in 2002 along with the institution with the purpose of empowering the engineering students with strong mathematical background, creative thinking, problem solving skills and scientific knowledge. The department has well-experienced faculty with appropriate qualifications from prestigious institutions. The faculty members regularly update their skills by attending refresher courses, seminars, workshops etc. The department offers subjects such as Mathematics, Physics and Chemistry which strive to equip students with relevant skills required to excel in engineering.

About the FDP:

This FDP is specially designed to give a mathematical insight on the learning process in machine learning and deep learning. In recent times there has been a massive increase in applications based on deep learning. However there has been no clarity on how these architectures learn volumes of data taken from multidimensional space. When such architectures reach saturation, there is a need to look at newer learning algorithms and architectures. This is possible only if the mathematical aspects are clearly understood. This FDP will suit all those who want to do good research in areas using machine learning and deep learning. This course will present the basic mathematical foundations that are essential for machine learning.

The FDP is jointly organized by the Department of Computer Science and Engineering and Department of Mathematics and Basic Sciences, SBCE, Pattoor and financially sponsored by APJ Abdul Kalam Technological University, Thiruvananthapuram.

Topics to be covered:

- Mathematics for Regression
- Introduction to Linear Algebra & its Relevance in Machine Learning
- Introduction to Probability & Random Variables for Machine Learning
- Statistical Analysis in Machine Learning
- From Mathematics to Machine
- Neural Network & Deep Learning
- Applications of Deep Learning

Resource Persons:

Dr. Gopakumar G., Assistant Professor, Amrita Vishwa Vidyapeetham, Kollam

Dr. K. Geetha, Associate Professor & Head of the Dept of Mathematics(Rtd), TKM College of Engineering, Kollam

Dr. Rajesh Kumar T. J., Assistant Professor, Dept of Mathematics, TKM College of Engineering, Kollam

Dr. Renu Jose, Associate Professor, Rajiv Gandhi Institute of Technology, Kottayam

Prof. Siju K. S., Associate Professor, Saint Gits College of Engineering, Kottayam

Prof. Nithin Prince John, Assistant Professor, Saint Gits College of Engineering, Kottayam

Eligibility for Admission:

The programme is intended for all Faculties and Research Scholars from various Engineering Colleges.



Excellence is a continuous process and not an accident

A P J Abdul Kalam