



SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING
(Deemed to be University)

**An Eight Day Online Faculty
Development Program (FDP) on**

Dynamical Systems & Optimal Control Theory, AI/ML and Bioinformatics with Applications to Healthcare

FDP

8 – 15 July, 2024

**AN INITIATIVE OF THE CENTER FOR
EXCELLENCE IN MATHEMATICAL
BIOLOGY (CEMB) - SSSIHL**

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ABOUT THE FDP



Join us for an online FDP on **Dynamical Systems & Optimal Control Theory, AI/ML & Bioinformatics with Applications to Healthcare.**

This unique interdisciplinary Faculty Development Program (FDP) seamlessly blends Mathematics, Artificial Intelligence/Machine Learning (AI/ML), and Bioinformatics, with a primary focus on their applications in healthcare. This unique FDP is designed to provide a comprehensive understanding of these fields through both theoretical discussions and hands-on sessions.

RESOURCE PERSONS

- Prof. Mukesh Doble, IIT Madras
- Dr. P. Muthu, NIT Warangal
- Dr. B. S. R. V. Prasad, VIT Vellore

- Dr. D. K. K. Vamsi, SSSIHL
- Dr. Darshan Gera, SSSIHL
- Dr. M. S. Srinath, SSSIHL
- Dr. K. N. Naresh, SSSIHL
- Dr. N. B. Gayatri, SSSIHL
- Dr. Bharat Parthasarathy, SSSIHL
- Mr. D. Bhanu Prakash, SSSIHL
- Mr. Rithwik Chandra Pandey, SSSIHL



WHO CAN ATTEND?

Faculty, Industry Professionals,
Post Doctoral and Ph.D Scholars



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TOPICS COVERED



Introduction to Dynamical Systems and Optimal Control Theory



Introduction to AI/ML with reference to Supervised, Unsupervised & Deep Learning



Introduction to Bioinformatics with reference to Computer Aided Drug Design (CADD)



Motivations to Dynamical Systems through Applications in Disease Modelling



Basics of Dynamical System's Stability Analysis



Hands on sessions on Disease Modeling & Stability Analysis with Python



Hands on sessions on Supervised, Unsupervised & Deep Learning



Hands on sessions on Agent Based Modelling using NETLOGO



Hands on sessions on Quantitative Structure Activity Relationship & Pharmacophore Modelling

PATRONS

- Prof. B. Raghavendra Prasad, Vice-Chancellor, SSSIHL
- Dr. Srikanth Khanna, Registrar, SSSIHL
- Prof. Pallav Kumar Baruah, Dean of Sciences, SSSIHL

PROGRAM COORDINATORS

- Dr. D. K. K. Vamsi, SSSIHL, Convenor
- Dr. M. S. Srinath, SSSIHL, Co-Convenor
- Dr. K. N. Naresh, SSSIHL, Co-Convenor

REGISTER HERE

on or before

6 July, 2024

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“End of Education is Character”

- SRI SATHYA SAI BABA
FOUNDER CHANCELLOR, SSSIHL

ABOUT SSSIHL

Founded in 1981, Sri Sathya Sai Institute of Higher Learning (Deemed to be University), Prasanthi Nilayam, Andhra Pradesh, India, is a visible manifestation of our Founder Chancellor Bhagawan Sri Sathya Sai Baba's vision of “Education for Human Transformation” providing merit based quality education, free for all students irrespective of income, religion, or region.

The Institute hosts students from across the country for its undergraduate, postgraduate, professional, and research programmes across its four campuses located in the states of Andhra Pradesh and Karnataka, in India.

With the state-of-the-art Central Research Instruments Facility (CRIF) at the Prasanthi Nilayam Campus and the Central Research Laboratory (CRL) at the Anantapur campus, SSSIHL provides a strong research environment, with exceptional academic practices, that have resulted in the growth of national and international collaborations.

In line with the vision of the Revered Founder Chancellor, research at SSSIHL is needs-based leading to societal benefit.

Visit us at: sssihl.edu.in

CENTRE FOR EXCELLENCE



ABOUT CEMB – SSSIHL

CEMB aims to empower society through Mathematical Innovation, and pioneering solutions for public well-being. Our vision is to harness the power of mathematical modeling and analysis towards actionable solutions that significantly impact society. We are committed to translating our scientific knowledge into practical applications, striving to benefit our fellow beings. Our goal is clear: to lead the way in leveraging mathematical research to drive positive change for the betterment of communities, promoting a brighter, more prosperous future for all.

For More Information:



[Department of Mathematics and Computer Science - SSSIHL](#)



[Department of Biosciences- SSSIHL](#)



[The Centre For Excellence in Mathematical Biology \(CEMB\) - SSSIHL](#)