



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

CERTIFICATE PROGRAM

INFECTIOUS DISEASE

MODELING



**Program Offered in Online Mode
for a Duration of 7 Months**



Reputed Instructors

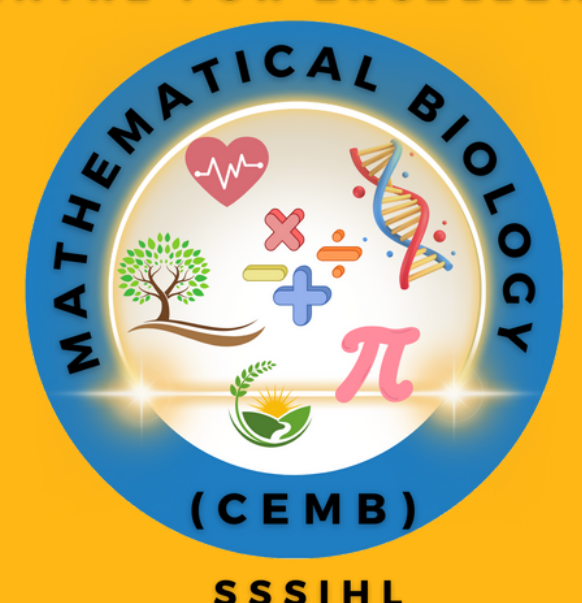
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**CENTRE FOR EXCELLENCE
IN**

MATHEMATICAL BIOLOGY (CEMB), SSSIHL

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PROGRAM DETAILS

MODULE - I

INTRODUCTION & EXPOSURE TO BASIC
INFECTIOUS DISEASE MODELS

MODULE - II

BASICS OF STABILITY ANALYSIS

MODULE - III

BIFURCATION ANALYSIS

MODULE - IV

INTRODUCTION TO ECOLOGICAL MODELING

MODULE - V

DELAY DIFFERENTIAL EQUATIONS AND
STOCHASTIC MODELING

MODULE - VI

DATA ANALYSIS AND MANIPULATION
USING MATHEMATICA

MODULE - VII

AI/ML METHODS FOR
DISEASE DYNAMICS

MODULE - VIII

INTRODUCTION TO
SYSTEMS BIOLOGY

MODULE - IX

SCIENTIFIC COMMUNICATION &
RESEARCH ETHICS

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PROGRAM INSTRUCTORS



Dr. D. K. K. Vamsi
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IIT Kanpur



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SSSIHL

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**Certificate Program to begin from
First Week of March, 2024**

**An Initiative of Center for Excellence in
Mathematical Biology (CEMB)
SSSIHL**

<https://www.sssihi.edu.in/cemb>

**Last date for Registration
Feb 28th, 2024**

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**Certificate Program is
open for Master's
Students, Doctoral &
Post Doctoral
Researchers, Faculty &
Industry Professionals**