



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

**A Six Day In-Person**

# National Winter School for Women in AI/ML and Computational Biology 2024

**(NWSW - 2024)**

**2 – 7 December, 2024**

An Initiative of the

**Centre For Excellence in Mathematical Biology (CEMB) – SSSIHL**

In Collaboration with

Department of Mathematics and Computer Science (DMACS) & Department of Biosciences (DBIO) – SSSIHL

## ABOUT THE WINTER SCHOOL



This In-Person National Winter School for Women is a comprehensive program aimed at empowering in the fields of AI/ML and Computational Biology. This program provides a foundation in Mathematical Biology, Bio-Informatics, Python programming, Artificial Intelligence/Machine Learning (AI/ML), and Deep Learning. This unique Winter School is designed for beginners and offers hands-on training, expert-led sessions to bridge the gap between Biology and Computational Techniques.

## RESOURCE PERSONS

- Prof. B. V. Rathish Kumar, IIT Kanpur
- Mrs. Divya Sai J, AI Data Scientist, Shell Technology Centre, Bangalore
- Dr. D. K. K. Vamsi, Coordinator, CEMB- SSSIHL
- Dr. M. S. Srinath, DMACS-SSSIHL
- Dr. Y. Lakshmi Naidu, DMACS-SSSIHL
- Dr. N. B. Gayathri, DMACS-SSSIHL
- Dr. K. N. Naresh, DBIO-SSSIHL
- Dr. Ramya E. M., DBIO-SSSIHL



## WHO CAN ATTEND?

Women Students pursuing UG, PG, Ph.D. and Post Doctorate programs with a background in any science stream are invited to attend.



Faculty and Industry Professionals in early career are also encouraged to apply.

**REGISTER HERE**

## TOPICS COVERED



**Introduction to Differential Equations, Differential Calculus and basics of Biological Systems**



**Introduction to Disease Modeling with reference to basic Compartment Models such as SIR, SEIR, SIS, SI**



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



**Introduction to Bioinformatics and the use of different Online Resources**



**Hands on sessions on Disease Modeling with Python**



**Hands on sessions on Supervised, Unsupervised Machine Learning**



**Hands on sessions on Bioinformatics with some Case Studies**

**[CLICK HERE FOR DETAILED NWSW-2024 SCHEDULE](#)**



## 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. N. B. Gayathri, SSSIHL, Co-Convenor
- Dr. Ramya E. M., SSSIHL, Co-Convenor

**REGISTER HERE**

on or before

**10 November, 2024**

### Note:

Stationary, Lunches and Refreshments during the Winter School are provided.

Limited seats available for NWSW-2024.

### Venue:

Multi Media Learning Centre (MMLC),  
Prasanthi Nilayam Campus (PSN Campus),  
SSSIHL

# “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.

**Visit us at: [sssihl.edu.in](http://sssihl.edu.in)**

## CONTACT US



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CENTRE FOR EXCELLENCE



## ABOUT CEMB – SSSIHL

 [sssihl.edu.in/cemb](http://sssihl.edu.in/cemb)

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 (DMACS)**  
- SSSIHL



**Department of Biosciences  
(DBIO) - SSSIHL**

