SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING

(Deemed To Be University)

A Five Day National Winter School for Women on

COMPUTATIONAL APPROACHES IN MATHEMTICAL BIOLOGY AND ARTIFICIAL INTELLEGENCE (NWSW-2026)

26 - 30 NOVEMBER, 2026

An Initiative of the

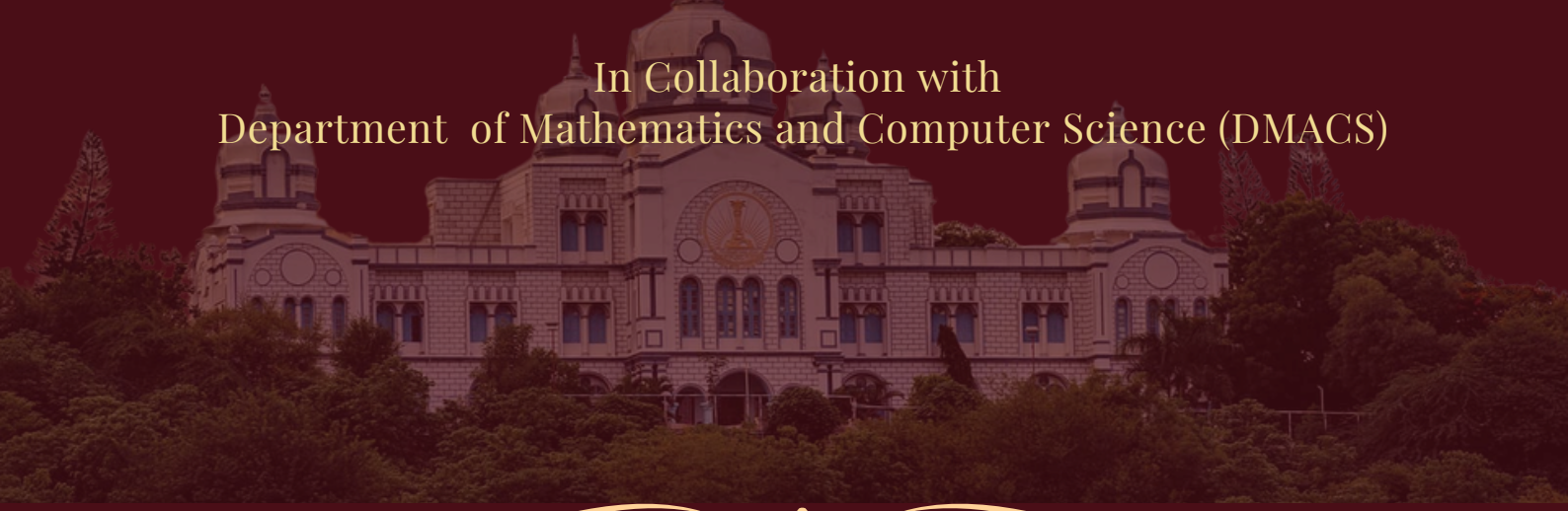
Centre for Excellence in Mathematical Biology (CEMB)

CENTRE FOR EXCELLENCE

SSSIHL

In Collaboration with

Department of Mathematics and Computer Science (DMACS)



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Day 1

09:00 AM	**Inaugural Session**
10:15 AM	**Dr. D. K. K. Vamsi, Coordinator, CEMB, SSSIHL** Basic Differential Calculus, ODEs and System of ODEs
11:30 AM	**Tea Break**
11:45 AM	**Dr. D. K. K. Vamsi** Introduction to Basic Disease Modeling
1:00 PM	**Lunch Break**
2:30 PM	**Dr. Bhanu Prakash, DMACS, SSSIHL &** **Dr. D.K.K. Vamsi** **Hands-on-session 1** Disease Modeling

End of Day 1

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Day 2

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09:00AM	**Dr. D. K. K. Vamsi** Advanced Disease Modeling
10:30 AM	**Tea Break**
11:00 AM	**Dr. D. Bhanu Prakash, DMACS, SSSIHL** Data Driven Modeling
12:30 PM	**Lunch Break**
02:00 PM	**Dr. D. Bhanu Prakash &** **Dr. D.K.K. Vamsi** **Hands-on-session 2** Data Driven Modeling

End of Day 2

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Day 3

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09:00 AM	**Prof. R. Raghunatha Sarma, DMACS, SSSIHL & Dr. P. Sunil Kumar, DMACS, SSSIHL** Introduction to AI/ML & Linear Methods in ML
10:30 AM	**Tea Break**
11:00 AM	**Prof. R. Raghunatha Sarma & Dr. P. Sunil Kumar** Nonlinear Methods in ML
12:30 PM	**Lunch Break**
02:00 PM	**Prof. R. Raghunatha Sarma & Dr. P. Sunil Kumar** **Hands-on-session 3** Healthcare Data using ML Methods

End of Day 3

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Day 4

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09:00 AM	**Dr. K. Vengata Krishnan, DMACS, SSSIHL** Reinforcement Learning in ML-I
10:30AM	**Tea Break**
11:00 AM	**Dr. K. Vengata Krishnan** Reinforcement Learning in ML-II
12:30 PM	**Lunch Break**
02:00 PM	**Dr. K. Vengata Krishnan** **Hands-on-session 4** Reinforcement Learning

End of Day 4

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Day 5

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MATHEMATICAL BIOLOGY (CEMB)

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09:15 AM	**Dr. P. R. Anisha, Dept. of Computer Science and Engg. , Stanley College of Engg. for Women** Deep Learning - I
10:30 AM	**Tea Break**
11:00 AM	**Dr. P. R. Anisha** Deep Learning - II
12:00 PM	**Lunch**
02:00 PM	**Dr. P. R. Anisha** **Hands-on-session 5** Deep Learning
03:30 PM	**Valedictory Function and Distribution of Certificates**
04:30 PM	**Tea Break**

End of NWSW-2026