

TECHNICAL SESSION - II

(2.00 p.m. to 3.30 p.m.)

Chairperson : A. Yogeshwari, III B.Sc. Mathematics

Rapporteur : T. Vaibhavi, III B.Sc. Mathematics

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| 11. Air Quality Prediction Using Ensemble Learning | : N. Swetha & S. Agalya
III B.Sc. Mathematics |
| 12. Advanced Optimization Frame Works for Sustainable Renewable Energy Management | : M. Keerthika & S. Myvizhi
III B.Sc. Mathematics |
| 13. Entropy Based Analysis of Climate Systems | : M. Kokila & S. Yashasvini
III B.Sc. Mathematics |
| 14. Climate Change Prediction Using Regression Analysis | : D. Kavitha & G. Pradeepa
III B.Sc. Mathematics |
| 15. Hyperbolic Geometry in Climate Network | : G. Akshaya & P. Devadharshini
III B.Sc. Mathematics |
| 16. Optimization Techniques and AI for Carbon Footprint Reduction | : M. Sowmiya & S. Arularasi
III B.Sc. Mathematics |
| 17. Artificial Intelligence for Predicting Sea Level Rise | : E. Poojasri & S. Meeratharshini
III B.Sc. Mathematics |
| 18. Predicting Temperature Change and Climate Mitigation using Differential Equation | : K. Dharshini & M. Janani
III B.Sc. Mathematics |
| 19. Modeling the Impacts of Climate Change on Ecosystem using the Lotka-Volterra Model | : M.U.Cema & A.M.Arshiya Thahaseen
III B.Sc. Mathematics |

OUTCOMES - The participants get insights into :

Integrating mathematical models with AI to understand ecosystem changes, predict future impacts and design real-time conservation strategies.

NPTEL video on
Artificial Intelligence for Climate Change Mitigation

VALEDICTORY FUNCTION - 3.30 p.m.
Presentation of Rapporteur's Report

Vote of Thanks : S. Yashasvini, III B.Sc. Mathematics

COLLEGE SONG



SRI SARADA COLLEGE FOR WOMEN (Autonomous)

Reaccredited with 'B++' Grade by NAAC

(Affiliated to Periyar University)

Salem - 16

PG & Research Department of Mathematics

*Cordially invites you to the
UG Students' Seminar
on*

Climate Change Impacts on Ecosystems: Mathematical and AI Frameworks for Analysis, Prediction and Mitigation



Date : 21.08.2026

Time : 10.00 a.m. to 4.00 p.m.

Venue : Sister Nivedita Auditorium

Programme

INAUGURAL SESSION

(10.00 a.m. to 11.00 a.m.)

Prayer

Welcome Address : **G. Pradeepa**
III B.Sc. Mathematics

Benediction : **Yatiswari Vinayakapriya Amba**
Directress,
Sri Sarada Educational Institutions,
Salem - 16.

Yatiswari Guhapriya Amba
Secretary,
Sri Sarada College for Women (Autonomous),
Salem - 16.

Releasing the Seminar Volume CD : **Dr. S.S. Gomathi, M.Sc., M.Phil., Ph.D.,**
Principal,
Sri Sarada College for Women (Autonomous),
Salem - 16.

Receiving the Seminar Volume CD : **Dr. M. Sudha, M.Sc., M.Phil., Ph.D.,**
HoD & Associate Professor,
PG & Research Department of Mathematics,
Sri Sarada College for Women (Autonomous),
Salem - 16.

Guest Speaker (Online) : **Dr. S. Meenakshi, M.Sc., M.Phil., Ph.D.,**
Assistant Professor of Mathematics,
Department of Mathematical and Computational Sciences,
Sri Sathya Sai University for Human Excellence, Navanihal,
Okali Post, Kamalapur, Kalaburagi-585313, Karnataka.

Vote of Thanks : **D. Kavitha**
III B.Sc. Mathematics

TECHNICAL SESSION - I

(11.00 a.m. to 1.15 p.m.)

Chairperson : **M.U. Cema, III B.Sc. Mathematics**

Rapporteur : **A.M. Arshiya Tahaseen, III B.Sc. Mathematics**

PAPER PRESENTATION

- Dynamic Modelling of the Relationship Between Rainfall and Climate Change** : **A. Yogeswari & T. Vaibhavi**
III B.Sc. Mathematics
- Sensitivity Analysis in Climate Change Prediction** : **G.V. Dhanushree & M. Vidhya Sri**
III B.Sc. Mathematics
- Exploring Climate Change Using Statistical Techniques** : **N. Jeevitha & J. Vishnupriya**
III B.Sc. Mathematics
- Stochastic Modeling of Climate Systems in Outdoor Ergonomics** : **G. Usharani & S. Kalaiyarasi**
III B.Sc. Mathematics
- Regression and Time-Series Models for Global Temperature Analysis** : **M. Mahalakshmi & P. Riya**
III B.Sc. Mathematics
- Estimation of Global Average Temperature using the Energy Balance Equation** : **M. Saranya & K. Varshini**
III B.Sc. Mathematics
- Climate Risk Assessment using Statistical Methods** : **S. Dharani & S. Gunanandhini**
III B.Sc. Mathematics
- Rainfall Variability and Trends using Statistical Measures** : **J.P. Kavipriya & N. Sivadarshini**
III B.Sc. Mathematics
- Weibull Distribution Models for Wind Energy Potential under Climate Variability** : **K. Nalini & P. Gopika Sri**
III B.Sc. Mathematics
- Differential Equations for Climate Change Prediction** : **P. Mohana & S. Kalaiselvi**
III B.Sc. Mathematics

Lunch Break : 1.15 p.m. - 2.00 p.m.