

Department of Mathematics

➤ Invitation

Organizing Committee Members

PATRON
Rev. Sr. Flora Mary
Secretary, St. Mary's College(Autonomous), Thoothukudi

CHAIRMAN
Dr. Sr. A.S.J. Lucia Rose
Principal, St. Mary's College(Autonomous), Thoothukudi

PROGRAM COORDINATOR
Dr. Sr. A.Arockia Jemmis Alphonse
Overall coordinator & Member Secretary,
DBT STAR College Scheme, Assistant Professor of Botany,
St. Mary's College (Autonomous), Thoothukudi

CONVENERS
Dr. A. PusathaTharani
Head and Associate Professor
Department of Mathematics
St. Mary's College (Autonomous), Thoothukudi.

Dr. S. Thilaga Leelavathi
Head and Assistant Professor
Department of Mathematics
Pope's College, Sawyerspuram

EXECUTIVE MEMBERS
St. Mary's College (Autonomous), Thoothukudi
Dr. V.L. Stella Arputha Mary
Dr. Sr.S. Kulanidai Theresa
Dr. J. Anil Jeevi
Dr. G. Priscilla Pacifica

Pope's College, Sawyerspuram
Dr. H. Welwet Getaimah
Mrs. K. Janita Devasanm
Dr. G. Sugantha
Dr. S. Kuberal

STAR PROGRAMME

2020 - 2021

Sponsored By



Department of Biotechnology
Ministry of Science & Technology,
Government of India

**APPLICATIONS OF
MATHEMATICS IN SCIENCE**

Organized by



21 April 2021 **10 a.m – 3.00 p.m.**

Marian Star Centre
in Collaboration with
PG and Research Department of Mathematics
St. Mary's College (Autonomous),
Re-accredited by NAAC (4th Cycle) with A+ Grade
Thoothukudi - 628 001.

&

Department of Mathematics
Pope's College
Sawyerspuram, Thoothukudi - 628 251,
Tamil Nadu, INDIA

Registration Link
<https://forms.gle/e6VNeof1HWKhpBs9>

ABOUT THE COLLEGE

St. Mary's college (Autonomous), a catholic institution of higher education for women founded in 1948, plays a significant role in shaping the destiny of innumerable young coastal women in and around Thoothukudi. With a proud legacy of 72 years, the college has excelled in every discipline keeping in pace with the global trends in the academia. The college, affiliated to Manonmaniam Sundaranar University, Tirunelveli, offers graduate, post-graduate, M.Phil. and Ph.D. programmes in various disciplines and has attained Autonomous Status in the year 2009. Recognizing the great potential within the campus, the NAAC has reaccredited the institution with 'A+' grade in its fourth cycle. A holistic education with an overall personality development is ensured by involving students in academic, curricular and co-curricular activities. The motto of the college is FIDE VIVANT (Live by Faith).

ABOUT DBT STAR COLLEGE SCHEME

Star College Scheme has been initiated by Department of Biotechnology (DBT) in 2008 to support colleges and universities offering undergraduate education to improve science teaching across the country. DBT identifies colleges with ambition and potential for excellence and provide academic and physical infrastructure for achieving excellence in teaching and unique exposure of students to experimental science. Department has supported around 200 undergraduate colleges across the country in the past 9 years. Star College scheme was sanctioned in March 2019. Four departments of the college namely Physics, Chemistry, Botany and Zoology have been recommended by the Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India, New Delhi, to receive financial assistance under the Star College Scheme.

Programme Schedule

Session I (10.00 a.m. – 11 a.m.)

Dr. P. SHANMUGAVADIVU
Professor and Head
Department of Computer Science and Applications
The Gandhigram Rural Institute (Deemed to be University)
Gandhigram
Tamil Nadu
Topic : Machine Learning Applications in Biology.

Session II (11.00a.m. - 12.00p.m.)

Dr. A. AMALI ASHA
Assistant Professor
Department of Computer Science,
Loyola College,
Chennai
Topic : Swarm Intelligence

Session III (1.30p.m. - 2.30p.m.)

Dr. U. MARY
Associate Professor and Head
Department of Mathematics,
Narmada College
Coimbatore, Tamil Nadu
Topic : Application of graph theory in drug discovery through Nano particles.



➤ Screenshot

Recent Developments in SI Applications

- U.S. Military is applying SI techniques to control the unmanned vehicles
- NASA is applying SI techniques for planetary mapping
- Medical Research is trying SI based controls for nano bots to fight cancer
- SI techniques are applied to load balancing in telecommunication networks
- Entertainment industry is applying SI techniques for battle and crowd scenes

➤ Certificate



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Organized by
 Marian Star Centre

In Collaboration with
 PG and Research Department of Mathematics,
 St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu.
 (Reaccredited with 'A' Grade by NAAC)

and
 Department of Mathematics,
 Pope's College(Autonomous), Sawyerpuram, Thoothukudi, Tamil Nadu



CERTIFICATE OF PARTICIPATION

This is to certify that **Mr/Ms D.Shalini Ebcnczer, II B.Sc Mathematics, Pope's College, Sawyerpuram** has actively participated in the **Webinar on "Applications of Mathematics in Science"** on 21.04.2021.

Arockia Jerecius Alphonse
 Dr. Sr. Arockia Jerecius Alphonse
 Overall Coordinator & Member Secretary
 DBT STAR Scheme
 St. Mary's College (Autonomous)
 Thoothukudi

A.P.D. JL
 Dr. A. Punitha Tharani
 Associate Professor & Head,
 Department of Mathematics
 St. Mary's College (Autonomous)
 Thoothukudi

S.Thilaga Leelavathi
 Dr. S. Thilaga Leelavathi
 Assistant Professor & Head,
 Department of Mathematics
 Pope's College
 Thoothukudi

Lucia Rose
 Dr. Sr. A. S. J. Lucia Rose
 Principal
 St. Mary's College (Autonomous)
 Thoothukudi

➤ Report

The Marian Star Centre and the PG and Research Department of Mathematics, St.Mary's College (Autonomous), Thoothukudi in association with Department of Mathematics, Pope's College, Sawyerpuram organised a Webinar on Applications of Mathematics in Sciences sponsored by Department of Biotechnology, Government of India, New Delhi on 21-Apr-2021 from 10 a.m. to 3.00 p.m. through online mode. There were three sessions in the Webinar. Dr. P. Shanmugavadivu, Professor and Head, Department of Computer Science and Applications, Gandhigram Rural Institute, Gandhigram, Tamil Nadu. Was the resource person for session I. She delivered a lecture on "Machine Learning Applications in Biology". Dr. A. Amali Asha, Assistant Professor, Department of Computer Science, Loyola College, Chennai, Tamil Nadu was the resource person for session II. She delivered a lecture on "Swarm Intelligence". Third session was handled by Dr. U. Mary, Head and Associate Professor, Department of Mathematics, Nirmala College, Coimbatore, Tamil Nadu. She elucidated the participants about "Application of graph theory in drug discovery through Nano particles".

More than 500 students and staff members from various colleges and Universities were eagerly participated the webinar. The sessions were more interactive. The participants appreciated the webinar and gave feedback that the webinar is a virtuous platform to update and enrich their knowledge also helpful for further research.

YouTube Link: <https://youtu.be/fHOKNTlierg>

V.L. Stella Arputha Mary
Head of the Department

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