

# Faculty Development Programme

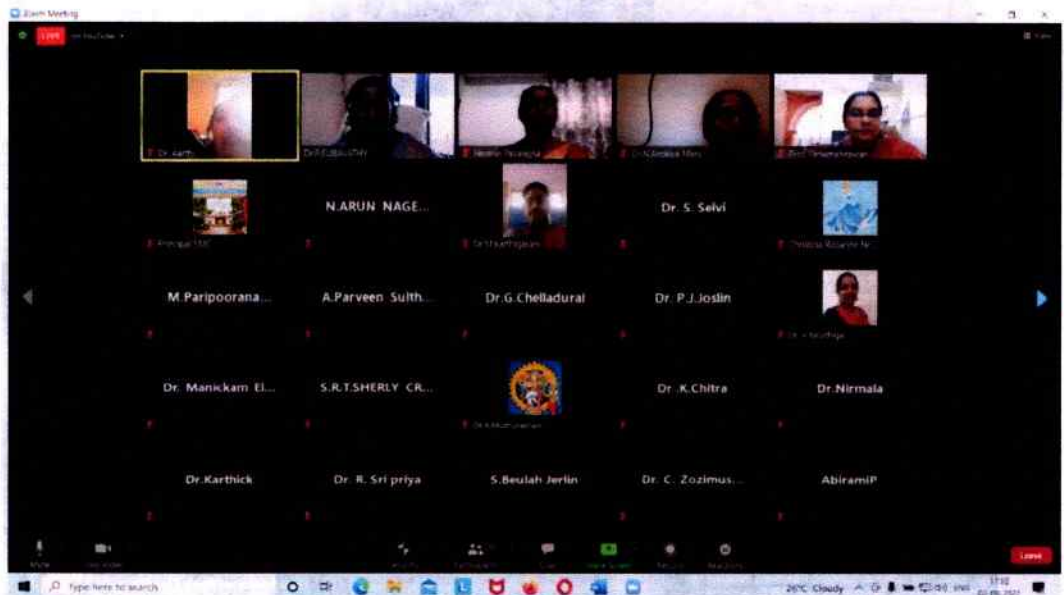
## “Biotechnology Today and Tomorrow: Innovations and Implications”

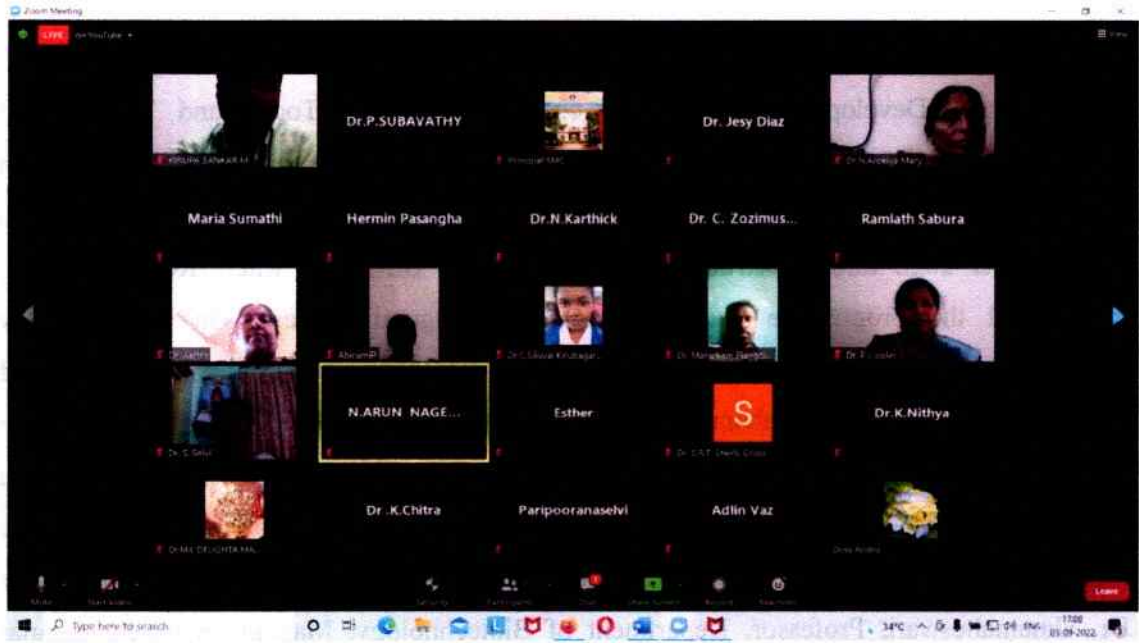
01.09.2022 to 05.09.2022

<p align="center"><b>EXECUTIVE COMMITTEE</b></p> <p><b>Patron</b> <b>Rev. Dr. Sr.C. Shibana</b> Secretary St.Mary's College (Autonomous), Thoothukudi</p> <p><b>Chairman</b> <b>Rev. Dr. Sr.A.S.J.Lucia Rose</b> Principal St.Mary's College (Autonomous) Thoothukudi</p> <p><b>Convener</b> <b>Dr. N. Arokya Mary</b> Head &amp; Associate Professor PG &amp; Research Department of Zoology St.Mary's College (Autonomous) Thoothukudi</p> <p><b>Program Co-Ordinator</b> <b>Rev. Dr. Sr. Arockia Jenevius Alphonse</b> Overall Co-ordinator &amp; Member Secretary DBT Star College Scheme Assistant Professor, Department of Botany St.Mary's College (Autonomous) Thoothukudi</p> <p><b>Department Co-Ordinator</b> <b>Dr. Jemima Hermelin Jesy Diaz</b> Assistant Professor PG &amp; Research Department of Zoology St.Mary's College (Autonomous) Thoothukudi</p>	<p align="center"><b>ORGANISING COMMITTEE MEMBERS</b></p> <p><b>Dr. Hermin Pasangha</b> Associate Professor</p> <p><b>Dr. P.J. Joslin</b> Associate Professor</p> <p><b>Dr. S. Mary Baptista Janet</b> Associate Professor</p> <p><b>Dr. S.R.T. Sherley Cross</b> Assistant Professor</p> <p><b>Dr. S. Selvi</b> Assistant Professor</p> <p><b>Dr. R. Sri Pnya</b> Assistant Professor</p> <p><b>Dr. M. Paripoornavathi</b> Assistant Professor</p> <p><b>Dr. P. Subavathy</b> Assistant Professor</p>	<p align="center">Faculty Development Programme on Biotechnology Today and Tomorrow : Innovations and Implications <b>UNDER STAR COLLEGE SCHEME 2022</b></p> <p align="center"><b>Sponsored By</b></p>  <p align="center"><b>DEPARTMENT OF BIOTECHNOLOGY GOVT.OF INDIA, NEW DELHI</b></p> <p align="center">01 - 09 - 2022 to 05 - 09 - 2022</p> <p align="center">Organized by <b>Marian Star Centre</b> Department of Zoology <b>St. Mary's College (Autonomous)</b> (Re-accredited by NAAC with 'A+' Grade) Thoothukudi - 629001, Tamil Nadu, India</p> <p align="center"><a href="https://forms.gle/BK1VBRZJM0wF08">Registration Link</a> <a href="https://forms.gle/BK1VBRZJM0wF08">Registration Link</a> <a href="https://chat.whatsapp.com/LBBvqJ0TP1x0afgGf">WhatsApp Link</a></p>
--	--	---

<p><b>About the college</b></p> <p>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 75 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).</p> <p><b>About DBT STAR College Scheme</b></p> <p>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.</p>	<p>Four departments of the college namely Physics, Chemistry, Botany and Zoology have been recommended by the Department of Biotechnology (DBT), Ministry of Science &amp; Technology, Government of India, New Delhi, to receive financial assistance under the Star College Scheme.</p> <p><b>About the FDP:</b></p> <p>“Biotechnology is nothing short of a revolution across different fields of science”. This Faculty Development Programme aims to inspire the faculty on the far-reaching myriad applications which impinge on every aspect of human existence. Biotechnology is advancing by leaps and bounds and exploration of this exciting field amazes us with its innovations. Today's progress in biotechnology has a greater potential to be the basis of subsequent innovations. The world of biotechnology is spinning faster and faster and harnessing the power of technology and rewriting the blueprints of life play a crucial role in society's present and future. In this FDP, a panel of eminent resource persons provides insight into the promises of biotechnology for improved quality of life, termination of hunger, alleviation of sufferings, diseases expunged and many untold possibilities.</p> <p align="center"><b>Programme Schedule</b></p> <p><b>Invited Lectures</b>      <b>Timing : 5.00p.m - 7.00 p.m</b> 01 - 09 - 2022</p> <p><b>Dr. M. Bavamilatha</b> Associate Professor Department of Biotechnology School of Bio and Chemical Engineering Sathyabama Institute of Science and Technology Chennai. <b>Topic: Biotechnological Innovations in Controlling Diseases</b></p> 	<p align="center">02 - 09 - 2022</p> <p><b>Dr. S. Umamaheswari</b> Professor Department of Biotechnology M.S. University, Tirunelveli <b>Topic: Earthworms in Biotechnology</b></p>  <p align="center">03 - 09 - 2022</p> <p><b>Dr. M.Kirupa Sankar</b> Assistant Professor (Selection Grade) Bioprocess and Bio-products Special Laboratory Department of Biotechnology Banani Amman Institute of Technology Sathyamangalam, Erode. <b>Topic: Role of Biotechnology in Addressing Future Energy Demand and Creating Sustainable Circular Bioeconomy</b></p>  <p align="center">04 - 09 - 2022</p> <p><b>Dr. Karthika Pushparaj</b> Assistant Professor of Zoology School of BioSciences Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore <b>Topic: Rationale of Interdisciplinary Sciences - Tangible Cues of Sustainable Development in The Field of Biotechnology</b></p>  <p align="center">05 - 09 - 2022</p> <p><b>Dr. S.Sudhakar</b> Professor Department of Biotechnology M.S. University, Tirunelveli <b>Topic: Mechanism of Agency</b></p> 
--	--	---

Photos





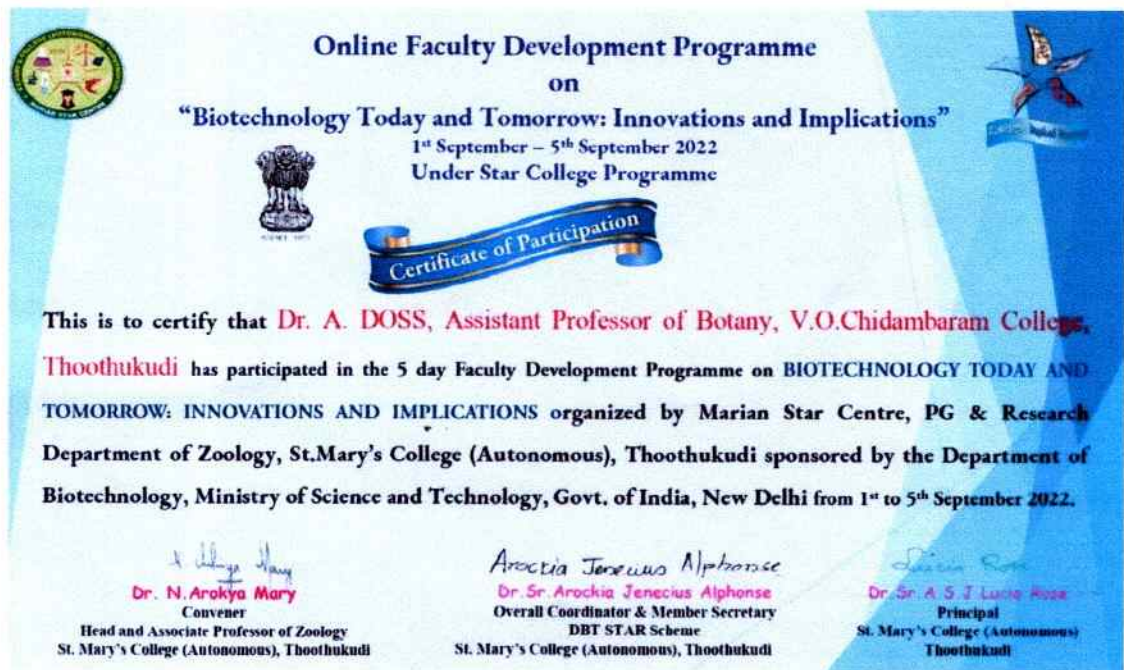


## Report

Faculty Development Programme on “Biotechnology Today and Tomorrow : Innovations and Implications” was organized by Marian Star Centre, PG and Research Department of Zoology, St.Mary’s College(Autonomous) Thoothukudi from 1<sup>st</sup> September to 5<sup>th</sup>September 2022 through virtual platform. Rev. Dr. Sr. A.S.J. Lucia Rose, Principal, inaugurated the programme and delivered the inaugural address. On the first day Dr.M.Bavanilatha, Associate Professor, Department of Biotechnology, School of Bio and Chemical Engineering, Sathyabama Institute of Science and Technology, Chennai chaired the programme. Dr.M.Bavanilatha addressed the audience on ‘Biotechnological innovations in controlling diseases’. She emphasized on the importance of Biotechnology in fulfilling the urgent needs of the society, specially in reducing the burden of diseases. On the 2<sup>nd</sup> day Dr. Umamaheswari, Professor, Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli, delivered a talk on ‘Earthworms in Biotechnology’. She explained how to identify the commercially important earthworms, their cocoons as well as about the layout of vermibed/ vermipit and indoor composting in pits. She addressed on metagenomics and it’s applications in understanding host interactions, discovery of DNA variation, drug/ vaccine development, genetic engineering, etc. Dr M. Kirupa Sankar, Assistant Professor (Selection Grade) Department of Biotechnology, Bannari Amman Institute of Technology, Sathyamangalam, was the resource person for the third day. He delivered a talk on the Role of Biotechnology in Addressing Future Energy Demand and Creating Circular Sustainable Bioeconomy. He emphasised the application of artificial intelligence in the medical field and agriculture. He also highlighted the importance of artificial intelligence incorporating systems to diagnose cancer and cardiac arrest within a fraction of a second. Dr.Karthika Pushparaj, Assistant professor of Zoology, School of Biosciences, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore was the resource person for the 4<sup>th</sup> day (4.09.22) of the Faculty Development Program. She gave a lecture on Rationale of Interdisciplinary Sciences-Tangible Cues of Sustainable Development in the field of Biotechnology. Dr.Karthika Pushparaj addressed the various interdisciplinary avenues in biotechnology and its scope for career development. Dr.S.Sudhakar, Professor, Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli served as the resource person on the fifth day. He delivered the lecture on “Mechanism of Ageing”. His lecture intricated the ageing process, cells from aged and young individuals, secret of ageing and life span of cells. The faculty members from various institutions across Tamil Nadu participated in the Faculty Development Programme. 47 participants benefitted out through this

programme. This faculty development programme enriched the knowledge of faculties on various aspects of Biotechnology and its recent advancements.

## Certificate



*N. Arokiya Mary*  
**Head of the Department**

**Dr. N. AROKIYA MARY M.Sc., M.Phil., Ph.D.**  
Associate Professor & Head  
PG & Research Department of Zoology  
St. Mary's College (Autonomous)  
Thoothukudi - 628 001.

*B. Serena Margaret*  
**IQAC Coordinator**

**IQAC Co-ordinator**  
**St. Mary's College (Autonomous)**  
**Thoothukudi**

*Lucia Rose*  
**Principal**

**St. Mary's College (Autonomous)**  
**Thoothukudi-628 001.**