



**ST. MARY'S COLLEGE (AUTONOMOUS)**  
**Re-accredited with 'A+' by NAAC (4th Cycle)**  
**Thoothukudi, 628001,**  
**Tamil Nadu**



**DEPARTMENT OF MICROBIOLOGY**

**NEWS LETTER**  
**ACADEMIC YEAR**  
**2019- 2020**

## HoD's Message

Dear faculty and students of the Department of Microbiology,

It is my pleasure to introduce our latest departmental newsletter for the academic year 2019- 2020 which showcases the department's achievements, student activities, faculty activities, and researchbreak through within our vibrant Microbiology Department. I am proud of our department's continued growth and excellence. Our faculty and students' dedication to advancing microbiological knowledge is commendable. Let's continue collaborating and innovating.

Your tireless efforts have solidified our position as a leading microbiology department. I am grateful for your commitment to excellence.

Thank you for your contributions to our department's success. Together, we will continue to advance microbiological knowledge and inspire future generations.

Regards,

**Dr. Joys Selva Mary Albert,**

**Head of the Department of Microbiology**



### Editorial Board

**Dr. C. Siluvai Kirubagari Aneeshia**

**Assistant Professor of Microbiology**

**Ms. A. Maria Heartina Adlin Vaz**

**Assistant Professor of Microbiology**

**Mr. C. Edward**

**Assistant Professor of Microbiology**

**Ms. N. Anitha**

**Assistant Professor of Microbiology**

**Ms. I. Jenifer**

**Assistant Professor of Microbiology**



## Microbiology Association Activities

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On 19.07.2019, the Microbiology Association meeting was conducted in the star hall at 2.30 pm. Rev. Fr. Sagesh, was invited as the resource person. He gave a lecture on "Health and Hygiene of old days and present days", the lecture was really useful and our students were enlightened with knowledge. The meeting came to an end with a college anthem.



The department conducted its association meeting on "Accelerating Women's Entrepreneurship through Advanced Technology". Mr. Karthick, Manager, Customer Relations and operations, Experts Hub, Industry Skill Development Centre, Chennai, was the resource person. The meeting was held at Computer Laboratory in Madona Block on 13.03.2020.

On 16th September 2019, the National Conference was conducted in the conference hall from 9.00 a.m. to 4.00 p.m. on the topic "Challenges and Provisions in Stem Cells and Cancer Research." Dr. Avinash Gandhi, Clinical Scientist, Mother Cell Regenerative centre, Trichy, and Dr. Guruvayoorappan, Assistant Professor, Division of cancer research, Thiruvananthapuram, were invited as the resource persons. The conference was really useful and our students were enlightened about the stem cells and cancer research. Students from various cities and colleges participated, and the conference came to an end with the college anthem.



The PG students of the department of microbiology conducted an awareness programme on 4th February 2020 for III UG and II PG students of our college students on the topic "Deadly Corona Virus" in the college auditorium. They presented PPT, videos regarding Corona virus awareness and conducted a quiz on corona virus and distributed prizes for the students who have answered the quiz.



# Microbiology Laboratory

The students of the department of Microbiology enjoy an air-conditioned, well equipped laboratory in the heart of the campus. It provides numerous facilities to perform all basic to advanced-level experiments covered in the syllabus both for UG and PG students.

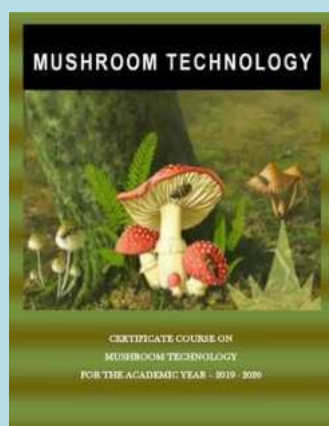
CLASS	NO. OF. HOURS
I B.Sc MICROBIOLOGY	8
II B.Sc MICROBIOLOGY	12
III B.Sc MICROBIOLOGY	12
II M.Sc MICROBIOLOGY	12

## Mentor Mentee System

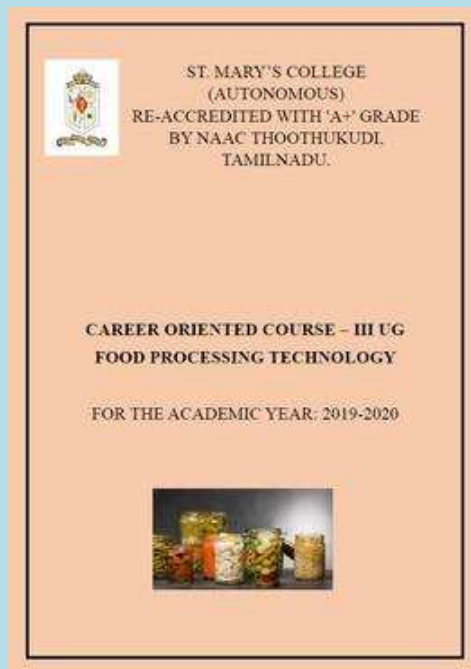
The Mentor Mentee System of our department functions well in order to support the students' holistic development during their year of study. A staff will have 8 to 10 students as her ward and take cares of the students' academic, psychological and emotional well-being. The Mentor Mentee meet was held in all Fridays from 2.30 p.m. to 4.00 p.m. The Mentor Mentee record also holds the students' academic records, achievements and extra-curricular activities in and out the campus.

## Certificate Course & Career Oriented Course

The certificate course "Mushroom Technology" for the II B. Sc Microbiology was offered by the department. The course commenced on 09th July 2019 and has been scheduled to be conducted on Tuesday and Wednesday. 46 students enrolled in this course and completed. Certificates were distributed to all the students.



The career-oriented course "Food Processing Technology" was offered by the department for the III B.Sc Microbiology students. The course commenced on 11th July 2019 and has been scheduled to be conducted on Monday and Thursday. 39 students enrolled in the course and successfully completed the course. Certificates were distributed on successful completion of the course.



## Board of Studies



The Board of studies meeting of the Department of Microbiology was conducted on 16th February 2019 in the department at 9.30 a.m. The subject experts for the board were the University nominee Dr. S. Sudhakar, Professor, Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli, Dr. S. Viswanathan, Assistant Professor and Head, PG Department of Microbiology, Sri Paramakalyani College, Alwarkurichi, Dr. N. Jeya Kumar, Guest Lecturer, Department of Microbiology, Kamarajar Government College, Surandai, Tirunelveli, Dr. R. Janet Rani, Assistant Professor and Head, Research Department of Microbiology, Sadakathullah Appa College (Autonomous), Tirunelveli and Mrs. K. Jenitha, Assistant Professor and Head, Department of Microbiology, Scott Christian College (Autonomous), Nagercoil. The board approved the syllabus and the course pattern.





## PTA Meeting

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The Parent Teacher's meeting was held on 17.08.2019 for III B.Sc Microbiology students and on 27.9.2019 for II B.Sc Microbiology and II M.Sc Microbiology students. This practice helps both teachers and parents to foster the growth and development of the students.



## Faculty activities

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### Seminar/Conference/Workshop Attended:

- 1) Dr. Joys Selva Mary Albert and Dr. C. Siluvai Kirubagari Aneeshia has participated in **Faculty Development Programme** on "Biostatistics and Bioinformatics", in the department of Botany at St. Mary's College (Autonomous), Thoothukudi from 18th to 20th July 2019.
- 2) Mrs. I. Jenifer, Assistant Professor, Department of Microbiology, has participated in **International conference** on "Entrepreneurship of microbiology" (ICEM-2019) held at Sadakathulla Appa College (Autonomous) on 21st August, 2019.
- 3) Dr. V Chandramathi, Assistant Professor, Dept. of Microbiology has participated in the workshop **Faculty Development Programme** on "Basic Techniques in Molecular Biology" organized by MARINE STAR CENTRE, Dept. of Zoology, St. Mary's College, (Autonomous), from 20th - 22nd August 2019.
- 4) Mr. C. Edward and Dr. V Chandramathi, Assistant Professor, Dept. of Microbiology, has participated in **National workshop** on "Writing Research Proposals for Funded Projects" Conducted by Research advisory, St. Mary's College (Autonomous) on 14th September 2019.
- 5) Dr. Joys Selva Mary Albert and Mr. C. Edward, Assistant Professor Department of Microbiology, has participated in one day **National Seminar** on "Innovation in Microbiology" conducted by department of Microbiology, Kamarajcollege, Tuticorin on 20th September 2019.
- 6) Dr. Joys Selva Mary Albert and Dr. Siluvai Kirubagari Aneeshia, Assistant professor, Department of Microbiology, has participated in the **Faculty Development Training**, Natural Product Research, Biozone Institute of Life Sciences, Ministry of Science and Technology, Government of India, New Delhi on 02.01.2020 - 04.01.2020.

## Faculty as Resource person

Dr. Joys Selva Mary Albert, Head and Assistant professor, Department of Microbiology, was invited as a resource Person by PG and Research Department of Microbiology, Sadakathulla Appa College (Autonomous), Tirunelveli on 27.01.2020. She gave a lecture on "Opportunities of Microbiologists in Industries."



## Paper Publications by faculty



Name of the staff	Paper published in National Seminar Proceeding
Dr. Joys Selva Mary Albert	5
Dr. C. Siluvai Kirubagari Aneeshia	4
Ms. A. Maria Heartina Adlin Vaz	2
Ms. I. Jenifer	2
N. Anitha	2
<b>Total</b>	<b>15</b>



# CDP

An inaugural function was organized in the college auditorium on 20.7.2019 small scale entrepreneurs gave introduction of various skills like tailoring, palm leaf things and sanitary napkin making. II UG students along with the staff Mrs. N. Anitha went for CDP to Korampallam on 10th August 2019. 47 students are involved in this programme and took a survey for about 75 families. The survey was taken on water facilities, cleanliness and the need to give awareness about planting more saplings.



## Our students taking survey in the adopted place

Students and staff in charge of Microbiology department went to CDP visit on 28.09.2019 to Perianaykapuram village of Korampallam Panchayat. Students and the people of the village went for procession raising awareness slogans. They also were carrying placards depicting words of awareness on water conservation and saying no plastic. Students gave program to avoid plastic. Songs, skit related to hazards of plastic was performed by students.



## Awareness Procession on Water Conservation and Saying no to plastic



Students and staff in-charge went to CDP adopted area Periyanakapuram village on 25.01.2020. On the account of Republic day celebrations drawing competitions were conducted for primary school children. Topics were National symbols for standard I and II students and Plastic awareness for grade III, IV and V Prizes were distributed based on performance.

Yoga and meditation were taught to the school children by our students. Students displayed awareness charts regarding Health and Hygiene and speech on Hygiene was also given to the school.

## Industrial visit



51 students from the department of Microbiology were taken to Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala. This visit gave exposure to the students on Molecular biology-based research work and the instruments and techniques used in Molecular Biology.

## Student activities

The Part –V courses for the II years is NSS, NCC, AICUF, SPORTS commenced on 8th July 2019 and has been scheduled to be conducted on Monday and Thursday.

The Carrier Guidance Program was conducted on 07.08.2019 in the star hall at 2.30 pm. Mr. Vijay Raj Ezhil Kumar was invited as the resource person. He gave a lecture on "Employment skill", the lecture was really useful for the students.

Fifteen of our II M. Sc students presented their research papers in the International Conference on "Entrepreneurship in Microbiology" conducted by department of Microbiology, Sadakathullah Appa College, Tirunelveli on 21st August 2019. Ms. A. Venciya got the I prize and Ms. P. Monisha got the II prize.



Three of our II M. Sc students presented their research papers in the state level seminar "Innovation in Microbial Diagnostics" conducted by department of Microbiology, Kamaraj college, Thoothukudi on 20.09.19. Our student Ms. R. Priyadarshini got I prize.





## Student projects

Register Number	Name of the Student	Project Title
18SPMB02	P. Durga	Effect of Sodium Nitrate on the corrosion behaviour of Mild Steel, Stainless Steel & Copper
18SPMB03	Isha J. Silva	Formulation of Herbal ointment from <i>Commelina benghalensis</i> L. for the isolated microflora from infected wound sample of rural children
18SPMB05	A. Josphin	Isolation and identification of microorganisms from Mangrove soil
18SPMB06	S. Kalyani	Therapeutic activities from flower and fruit of <i>Nelumbo nucifera</i>
18SPMB07	M. Kanimozhi	Evaluation of antibacterial activity and phytochemical analysis of <i>Cissus quadrangularis</i> stem against pathogenic organisms
18SPMB08	K. Karthika	An evaluation of anti-ulcer, antioxidant and antimicrobial activity of <i>Polyalthia longifolia</i>
18SPMB09	S. Kavitha	Phytochemical and pharmacological properties of white mangrove <i>Avicennia marina</i> bark and leaves
18SPMB10	A. K. Lavanya	A study on pharmacological activities of <i>Agaricus bisporus</i> in different solvents
18SPMB11	P. Monisha	Microbicidal activity of three different medicinal plants <i>Solanum nigrum</i> , <i>Sesbania grandiflora</i> and <i>Eclipta prostrata</i>
18SPMB12	A. Princy Sujitha	A study on pharmacological activities of <i>Prosopis juliflora</i> leaves and pods
18SPMB13	R. Priyadharshini	Health benefits and biopotential product of <i>Cassia fistula</i> and <i>Acacia nilotica</i>

18SPMB14	B. Punitha Lakshmi	Amylase production by Agro- industrial wastes using <i>Bacillus sp</i> and <i>Escherichia coli</i>
18SPMB15	A. Shobia	A Novel approach to investigate the Anti diabetic, Anti inflammatory, Antimicrobial and wound healing effect of <i>Eicchornia crassipes</i>
18SPMB16	A. Venciya	An approach for synthesis and analysis of bacterial biopolymer (PHB)
18SPMB04	D. Jeya Ruby	Corrosion inhibition of metals such as Mils Steel, Stainless steel and Aluminium using Sodium nitrite as an organic inhibitor



### III UG & II PG Pass Percentage

III B.Sc Microbiology	92.3 %
II M.Sc Microbiology	100 %



# Placement

News letter 2019 - 2020

Year	Name	Name of the employer	Package Received (Per month)	Program graduated from
2019-2020	Nisha.G Sales Girl	Mobile shop, Chennai	Rs. 8,000	B.Sc Microbiology
2019-2020	Isha J.Silva Entrepreneur	Tailoring	Rs. 7,000	M.Sc Microbiology
2019-2020	Lavanya A.K. Lab Technologist	Vitality Sea foods, Thoothukudi	Rs. 12,000	M.Sc Microbiology
2019-2020	Monisha.P Lab Technologist	Asvini Fisheries, Thoothukudi	Rs. 12,000	M.Sc Microbiology

## Higher Education



S. No	Name of the Student	Program completed	Name of institution joined	Name of programme admitted to
1	Ajitha. M	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
2	Anoo .M	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
3	Bhuvana Bharathi .S	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
4	Essakiammal .E	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
5	GloryGifty .S	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc

6	Kavitha .M	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
7	Krystal Sherina .S	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
8	Merlin Aruna .A	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
9	Nivedthitha	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
10	Petchiammal @ Baby. M	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
11	Rabiya Begam. M	B.Sc Microbiology	St. Mary's College Autonomous Thoothukudi	M.Sc
12	Rama Sankari. K	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
13	Ramalakshmi. L	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
14	Selvathuraichi. G	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
15	Siva Priya. M	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
16	Soundarya Muthu. S	B.Sc Microbiology	Kamaraj College Thoothukudi	M.Sc
17	Priyadharshini. R	M.Sc Microbiology	Manonmaniam Sundaranar University, Tirunelveli	Ph.D

