



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



UG & PG Department of Microbiology

NEWS LETTER
Academic Year 2021 – 2022

HOD'S Message

Dear Students and Faculty of the Department of Microbiology,

I am delighted to share the latest updates and achievements from our dynamic department. This academic year has been marked by exceptional accomplishments, showcasing the dedication and expertise within our community.

- We have successfully organized several workshops and conferences, providing platforms for scientific exchange and professional development.
- Our faculty members have actively participated in numerous national and international seminars, enhancing their knowledge and research capabilities.
- Our staff have published research papers in renowned journals and presented findings at prestigious conferences, contributing significantly to advancements in the field of microbiology.
- Our students have extended their service to society through health and hygiene awareness programs in adopted villages, reflecting their commitment to community welfare.
- We are proud to announce a 100% pass rate in the final exams, demonstrating our students' hard work and the unwavering support of our faculty.
- Additionally, our students have excelled in certification programs and online courses, further enhancing their technical skills and academic knowledge.

These achievements reflect our department's commitment to academic excellence and societal impact. I extend my heartfelt congratulations to all our students and faculty for their dedication and success. Let us continue to work together to achieve even greater milestones in the future.

Thank you for your unwavering support and efforts

Warm Regards,

Dr. Joys Selva Mary Albert
Head of Department of Microbiology

Editorial Team

Dr. C. Siluvai Kirubagari Aneeshia
Assistant Professor of Microbiology

Ms. A. Maria Heartina Adlin
Assistant Professor of Microbiology

Mr. C. Edward
Assistant Professor of Microbiology

Dr. Kumari Pushpa Rani
Assistant Professor of Microbiology

M. Shynisha Begam
Assistant Professor of Microbiology

Activities of the Association

- ❖ On 25. 09.2021 a one-day seminar on “current microbial quality and safety issues in Fishery products was organized by the Department of Microbiology. Dr. Jeyashakila, Professor and Head, Department of Fish Quality Assurance and Management, Fisheries College and Research Institute was the Resource Person
- ❖ On 23.10.2021 a programme on World Food Day was organized by the Department of Microbiology. Mrs. Jenitta Sharmila Freeda, Dietician, AVM Hospital, Thoothukudi was the Resource Person.
- ❖ On 25.11.2021 a National webinar on Industrial waste management was organized by the Department of Microbiology. Dr. Deepak Somayaji, Advisor, Agri and Biotech companies was a Resource Person.
- ❖ On 16.12.2021 and 17.12.2021 a International webinar on impact of Nanobiotechnology in the field of medicine was organized by the Department of Microbiology. Dr.P.Patchamuthu, Bannari Amman Institute, Erode and Dr.M.Gover Antoniraj, University of Negev, Israel.
- ❖ On 16.02.2022 a seminar on “Pitching event for PoCs developed and linkage with Innovation Ambassadors for mentorship support” was organized by the Department of Microbiology. Dr.N.C.J. Packia Lekshmi IIC Ambassador & Assistant Professor, Noorul Islam centre for Higher Education, Kumarakovil.
- ❖ On 08.03.2022 a seminar on “Women health issues” was organized by the Department of Microbiology. Dr. A. Rexie Mary MBBS, Duty Medical Officer, ARR Hospital, Thoothukudi



Lab No of Activities

Many technological advancements and scientific innovations originate from lab – based research and experiments. Science labs play a crucial role in advancing knowledge, fostering innovation and developing essential scientific skills. These innovations can improve everyday life and address global challenges. The lab is equipped with standard chemicals and instruments.

Class	Total No of hours
I B. Sc Microbiology	120
II B. Sc Microbiology	150
III B. Sc Microbiology	190
I M. Sc Microbiology	180
II M. Sc Microbiology	180



Mentor Mentee System

This system plays a crucial role in both academic and personal development. This relationship helps students navigate their educational journey, offering support and guidance that can significantly influence their success and well – being. A teacher has a group of 12 students whose academic and other aspects of their progress are her concern. The teacher provides guidance on balancing academic, personal and social aspects of life during periodical Tutor – Ward meet each Friday from 02.30pm to 04.00pm. a record of academic results and bio – data of each of the students is maintained. The mentees met their mentor seven time in the odd semester and seven times in the even semester.

Semester	Dates
ODD	10.09.2021
	24.09.2021
	08.10.2021
	22.10.2021
	29.10.2021
	12.11.2021
	03.12.2021
Even	07.01.2022
	21.01.2022
	04.02.2022
	18.02.2022
	25.02.2022
	11.03.2022
	25.03.2022

Certificate Course

Food Processing Technology was offered as a career-oriented course to the III B. Sc Microbiology Students Dr. C. Siluvai Kirubagari Aneeshia was the instructor and the classes were conducted during the afternoon hours from 02.00pm to 04.00pm. A total of 30 hours were completed. It was conducted from 05.07.2021 to 15.07.2021. It helped the students to know the techniques involved in production, manufacturing, preservation, testing, research and development of various food products. After completion of 30 hours a written exam was conducted and grades were given to the students in the successful completion of the course. 39 students were the beneficiaries.

Board of Studies

The Board of Studies Meeting of the Department of Microbiology was conducted on 26th February 2022 at 10.00 a.m. in the department of Microbiology. The subject experts of the Board of studies were Dr. D. Kannan, Assistant Professor and Head, Department of Microbiology, K.R. College of Arts and Science, K.R Nagar, Kovilpatti. Dr. J.Raja Brindha, Assistant Professor of Microbiology, Department of Allied Health Sciences, Noorul Islam University, Kumaracoil Thuckalay, Kanyakumari District. Dr. R. Janet Rani, Assistant Professor and Head, Research Department of Microbiology, Sadakathullah Appa College (Autonomous), Palayamkottai, Tirunelveli. The Syllabus was designed in the pattern of Outcome Based Education with Choice Based Credit System. The board acknowledged and approved the set pattern.

MoU Activity

The department signed a MoU with following private companies and Research Institute to share mutual research and career benefit such as Asvini Fisheries Private Limited, Thoothukudi. Theva and Co – Thoothukudi, Williams Research Centre -Nagercoil and Sadakathullah Appa college – Tirunelveli. The department established a good rapport with the institute. The department of Microbiology (SSC), St. Mary's College (Autonomous), Thoothukudi and William Research Centre, Nagercoil conducted an International Conference on 'Multidisciplinary approach on conservation of nature for your future' and 'Pre – Siddha Day Celebration' on 13th to 15th December 2021 at William Research Centre.



PTA and Alumnae

The Parents Teachers Association conducted meetings regularly for all the parents and students of the department. The meetings were held respectively for I B. Sc. and I M. Sc. on 26.03.22, II B. Sc, III B. Sc and II M.Sc. on 26.03.2022. The Marian Alumnae Meet was organised on 22. 04. 2022.

Research Activities-Faculty

Name	Pub - Journal	Pub - Book	Conference	Seminar	Workshop	FD P	Refresh er course	Orientation	Short term	Training prog
Dr. Joys Selva Mary Albert	3	-	5	4	1	1	-	2	1	1
Dr. C. Siluvai Kirubagari Aneeshia	-	-	3	4	1	1	-	2	1	1
Ms. A. Maria Heald Adlin	-	-	3	7	3	1	-	1		1
Mr. C. Edward	2	-	=	11	-	3	-	-	-	-
Dr. Kumari Pushpa Rani	4	-	6	30	3	5	-	5	-	1

Awards

- Dr. Joys Selva Mary Albert and Dr. C. Siluvai Kirubagari Aneeshia have got Best Teacher Award in the year 2021 by Educational and Psychological Research Centre, Madurai and UK on 5-Oct-2021
- Dr. Joys Selva Mary Albert and Mr.C. Edward got an award on 2-Nov-2021 for the Appreciation for serving as Research Consultant by Marian Research forum.

CDP

- Our department have organized a corona awareness program in our adopted village Periyayagapuram on 29th September 2021. The students created awareness among villagers and children regarding the safety precautions taken to prevent corona.
- Our department have organized 2 days training program on “Vermicomposting” in our adopted village Periyayagapuram and Veeranayakanthattu on 17th & 18th December

2021. Vermicomposting is a simple, effective way to recycle organic waste in producing valuable fertilizer was explained to the villagers.

- Our department have organized 2 days training program on “Mushroom Cultivation” training in our adopted village Periyarayapuram and Veeranayakanthattu on 4th & 7th April 2022.



Educational Tour/ IV Report

- ❖ The Department of Microbiology (SSC) arranged a field visit for the III UG and II PG students (42) to AMI – Institute of Bioscience (Coimbatore) on 05.03.2021, intending to enrich the practical and research knowledge in the areas of Gene cloning, Molecular biology, Genomics and Cancer research. At the outset, Students were allowed to gene cloning lab and explained about the preparation and construction of gene cloning vectors using novel softwares. Then the visitors were given with depth information on usage of molecular apparatus like PCR and different kinds of gel apparatus.
- ❖ The Department of Microbiology (SSC) arranged a field visit for the III UG microbiology students (35) to Horticultural Research Institute – TNAU (Ooty) on 02.05.2022 intending to enrich the practical and research knowledge in the areas of Soil microbiology, Agricultural Microbiology, Horticultural research and production of biofertilizers. At the outset, Students were allowed to tissue culture lab and

explained about the preparation and construction of explant and callus of transformed plant.



Student Activities

During the academic year 2021-2022, the students actively participated in various co-curricular, extra-curricular and sports competitions and events at different levels. Their achievements are

- Mari, Christyana A, Devibala S, Kalyani S, Kavitha, Manisha A R, D. Mathivathani, A Students from III B.Sc Microbiology R.Durga Devi, RT.Hamza Varthini, M.S.Sameen Afroze, M.Saranya, R.Vishnupriya, A.P.Pavya Askila, M.Priya, S.Vidhya, A.J.Celestina selvakani, P.Vijayalakshmi, S.Sheba Christina, R.Nivetha, E.Muthupriya B.Jothilakshmi, A.Indhumathi, S.Susmitha, A.Hema presented a poster on international Conference Conducted by Willam Research centre Nagercoil, Kanyakumari, Seethalakshmi Achi college for women pallathur & Department of Microbiology -St.Mary's College, Thoothukudi on 13-15th Dec-2021
- B. Athsaya, B. Bershiya, S. Chandana Meshila, M A Ramya Angel E Refnisha N Rithu Corera R, Saraswathi N, Uma Kanniga M, Vinothini J presented a poster on international Conference Conducted by Willam Research centre Nagercoil, Kanyakumari, Seethalakshmi Achi college for women pallathur & Department of Microbiology -St.Mary's College, Thoothukudi on 13-15th Dec-2021
- Uma Kanniga M, presented a paper on international Conference Conducted by Willam Research centre Nagercoil, Kanyakumari, Seethalakshmi Achi college for women pallathur & Department of Microbiology -St.Mary's College, Thoothukudi on 13-15th Dec-2021.
- Students from II M.Sc Microbiology K. Affrin Nisha, M. Rabiya Begam, N.R. Sutha presented a paper on international Conference Conducted by Willam Research centre Nagercoil, Kanyakumari, Seethalakshmi Achi college for women pallathur & Department of Microbiology -St.Mary's College, Thoothukudi on 13-15th Dec-2021.
- 27 Students from II B.Sc Microbiology participated in Muthamil Payilarangam conducted by St. Mary's College (Autonomous), Thoothukudi on 18-Feb-2022.
- Students from II B.Sc Microbiology E. Muthu Priya, A. Hema, M. Santhiya, K. Fathima, K. Liza Eswari, S.Mohamed Sameera, A.Ahmed Aabira, S.L.Anu Varshini, J.Priya participated in Essay Writing conducted by Marian Star Centre, Students Council, St.Marys College- thoothukudi on 22-Feb-2022
- Students from department of Microbiology has participated a Expert talk conducted by IIC and Department of Microbiology, St. Mary's College (Autonomous) on 16-Feb-2022
- 21 Students from I B.Sc Microbiology attended a national Lecture on Essential of Science in life by Marian Star Centre, St.Marys College- thoothukudi on 01-March-2022.
- Students from I M.Sc Microbiology A.S. Ajmal Riawana, M.A. muhsina Thahira, S. Rinolaa, R. Selzia, Vincy. N has attended international webinar conducted by Marian Reseach Forum ,St.Mary's College (Autonomous) Thoothukudi on 01-March-2022.
- J.Sherina, P.Vijayalakshmi, N.R.Sutha presented a poster on national conference conducted by Department of Botany, VOC College, thoothukudi on 30-Mar-2022
- D.Joselin Starina B.Jothilakshmi, M.S.Sameen Afroze, M.Saranya, presented a paper on national conference conducted by Department of Botany, VOC College, thoothukudi, 30-Mar-2022



MooC and NPTEL

The students of II M. Sc Microbiology attended MooC course titled, **Introduction to Research**

S. No	Reg. No	Student Name	Status
1.	20SPMB03	N.R. Sutha	Completed



P.G. Project Details 2021-2022

A total of three students submitted their project and their detail are as follows

S.No	Name	Reg No	Title of the Project	Guided by
1	K. AFRIN NISHA	20SPMB01	A study on pharmacological activities of Momordica cymbalaria fruits	Dr. Joys Selva Mary Albert
2	M. RABIYA BEGAM	20SPMB02	Effect of Occimim tenuiflorum extract modulating apoptotic genes in oral cancer	Dr. C. Siluvai Kirubagari Aneeshia
3	N.R. SUTHA	20SPMB03	Isolation of antibiotic producing microorganisms from soil	A.Maria Heartina Adlin Vaz

U.G. Project Details 2021-2022

U.G. PROJECT DETAILS 2021 - 2022			
NAME	REG.NO.	TITLE OF THE PROJECT	GUIDED BY
ANNA RATHI.J	19SUMB01	ANTI-CANCER POTENTIAL OF HALIMEDA TUNA ON HUMAN LEUKEMIC CELL LINES (MOLT-4)	MS.R.SHYNISHA BEGUM
ARUNA.P	19SUMB02		
ASMIKHA.J.P	19SUMB03		
CELESTINA SELVAKANI.A.J	19SUMB04		
DHIVYA DHARSHINI.T	19SUMB05		
DURGA DEVI.R	19SUMB06		
FATHIMA.K	19SUMB07	ELIMINATION OF HEAVY METALS FROM INDUSTRIAL WASTE WATER USING MICROBIAL CONSORTIUM AND ABSORBENT	MS.P.RAJA RAJESWARI
HAMZA VARTHANI.R	19SUMB08		
HEMA .A	19SUMB09		
INDHUMATHI.A	19SUMB10		
ISWARYA.T	19SUMB11		
JEFA SHERLIN.B	19SUMB12		
JENITTA SUGIRTHAM.D	19SUMB13	ISOLATION AND CHARACTERISATION OF EXOPOLYSACCHARIDE FROM MARINE BACTERIA	MR.C.EDWARD
JEYA PRABHA.P	19SUMB14		
JOSELIN STARINA.D	19SUMB15		
JOTHI LAKSHMI.B	19SUMB16		
LIZA ESWARI.K	19SUMB17		
MAHESWARI.M	19SUMB18		
MUTHU PRIYA.E	19SUMB19	ISOLATION OF HYDROCARBON DEGRADING MICROORGANISMS AND ASSAY OF ITS BIODEGRADING ABILITY	MS.A.MARIA HEARTINA ADLIN VAZ
NANDHINI.S	19SUMB20		
NIDHARSHANA.R	19SUMB21		
NIRANJANI.S	19SUMB22		
NIVETHA.R	19SUMB23		
PAVITHRA.A	19SUMB24		
PAVYA ASKILA.A.P	19SUMB25	PREPARATION OF BIO-PLASTIC USING BANANA PEEL (Musa acuminata) AND DETERMINATION OF ANTIMICROBIAL ACTIVITY	Dr.C.SILUVAI KIRUBAGARI ANEESHIA
PRADEEPA.K	19SUMB26		
PRIYA.M	19SUMB27		
SABIRA BANU.H	19SUMB28		
SAMEEN AFROZE.M.S	19SUMB29		
SANTHIYA.M	19SUMB30		
SARANYA.M	19SUMB31	A NOVEL APPROACH ON PHARMACEUTICAL ACTIVITIES OF BORASSUS FLABELLIFER'S LEAVES AND ROOTS	Dr.JOYS SELVA MARY ALBERT
SHERINA.J	19SUMB33		
SUDHA DEVIKA.J	19SUMB34		
SUSMITHA.S	19SUMB35		
VIDHYA.S	19SUMB37		
VIJAYA LAKSHMI.P	19SUMB38		
VISHNU PRIYA.R	19SUMB39		

Pass Percentage

III UG & II PG Pass percentage

Class	Passing Percentage
III B.Sc Microbiology	100 %
II M.Sc Microbiology	100 %

Placement

The following students were employed in the below mentioned companies

Year	Name of the student placed	Program Graduated from	Name of the employer	Salary in Rs PM
2021 - 2022	Nandhini S	B.Sc Microbiology	Sagar Mitra, Thoothukudi	12,000
2021 - 2022	Sabira Banu H	B.Sc Microbiology	Arputham Hospital, Thoothukudi	10,000
2021 - 2022	Santhiya M	B.Sc Microbiology	Dhanaraj Hospital, Thoothukudi	10,000

Higher Education

The table below displays III B.Sc Microbiolgy. students pursuing higher education

Name of the student enrolled for higher education	Programme completed	Name of the institute joined	Name of the programme admitted to
Anna Rathi J	B.Sc Microbiology	Kamaraj College Tuticorin	M.sc Microbiology
Asmikha J P	B.Sc Microbiology	JSS Life Science College Ooty	M.sc Microbiology
Dhivya Dharshini T	B.Sc Microbiology	St Mary's College Tuticorin	M.sc Microbiology
Durga Devi R	B.Sc Microbiology	Kamaraj College Tuticorin	M.sc Microbiology
Fathima K	B.Sc Microbiology	St Mary's College Tuticorin	M.sc Microbiology
Hamza Varthini R	B.Sc Microbiology	Sadakathullah appa College Tirunelvali	M.sc Microbiology
Iswarya T	B.Sc Microbiology	St Mary's College Tuticorin	M.sc Microbiology
Jefa Sherlin B	B.Sc Microbiology	St Mary's College Tuticorin	M.sc Microbiology
Jenitta Sugirtham D	B.Sc Microbiology	Kamaraj College Tuticorin	M.sc Microbiology
Joselin Starina D	B.Sc Microbiology	St Mary's College Tuticorin	M.sc Microbiology
Liza Eswari K	B.Sc Microbiology	Kamaraj College Tuticorin	M.sc Microbiology
Muthu Priya E	B.Sc Microbiology	Kamaraj College Tuticorin	M.sc Microbiology
Nidhaeshana R	B.Sc Microbiology	St Mary's College Tuticorin	M.sc Microbiology
Niranjani S	B.Sc Microbiology	SRM University Chennai	M.sc Microbiology
Pavya Askila A	B.Sc Microbiology	JSS Life Science College Ooty	M.sc Microbiology
Priya M	B.Sc Microbiology	Sadakathullah appa College Tirunelvali	M.sc Microbiology
Sameen Afroze M S	B.Sc Microbiology	Kamaraj College Tuticorin	M.sc Microbiology
Saranya M	B.Sc Microbiology	St Mary's College Tuticorin	M.sc Microbiology
Sheba Christina S	B.Sc Microbiology	Kamaraj College Tuticorin	M.sc Microbiology
Sherina J	B.Sc Microbiology	Madras Christian College Chennai	M.sc Microbiology
Sudha Devika J	B.Sc Microbiology	Madurai Kamaraj University Madurai	M.sc Microbiology
Susmitha S	B.Sc Microbiology	JSS Life Science College Ooty	M.sc Microbiology
Vidhya S	B.Sc Microbiology	JSS Life Science College Ooty	M.sc Microbiology
Vijayalakshmi P	B.Sc Microbiology	Dr NGP Arts and Science College	M.sc Microbiology
Vishnu Priya R	B.Sc Microbiology	Kamaraj College Tuticorin	M.sc Microbiology