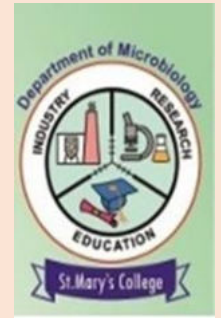


**ST. MARY'S COLLEGE (Autonomous)**  
**Re-accredited with 'A+' by NAAC (4th Cycle)**  
**Thoothukudi- 628001, Tamil Nadu**  
**Department of Microbiology (SSC)**



**NEWS LETTER**  
**Academic Year 2022 – 2023**

## 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. With six passionate and dedicative faculty members in the department, We offer big exposure to the learners for exploring new ideas in research and recognizing opportunities in the multidisciplinary field. We also provide wide and depth knowledge in the respective discipline utilizing various digital platforms to meet the present challenge. The department is well supported with Research laboratory for Microbiology work and special lab for molecular biology

Let us continue to work together to achieve even greater milestones in the future.

Thank you for your unwavering support and efforts.

(Dr.Joys Selv Mary Albert) Head of the Department Microbiology

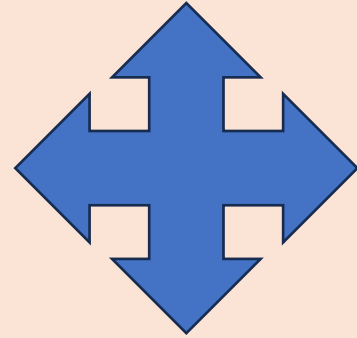
### Editorial Team

**Dr.Siluvai Kirubagari Aneeshia**  
(Assistant Professor of Microbiology)  
**Ms.Maria Heartina Adlin Vaz**  
(Assistant Professor of Microbiology)  
**Mr.EDWARD C**  
(Assistant Professor of Microbiology)  
**Dr.T.P.Kumari Puspha Rani**  
(Assistant Professor of Microbiology)  
**Ms.Shynisha Begam** (Assistant Professor of Microbiology)

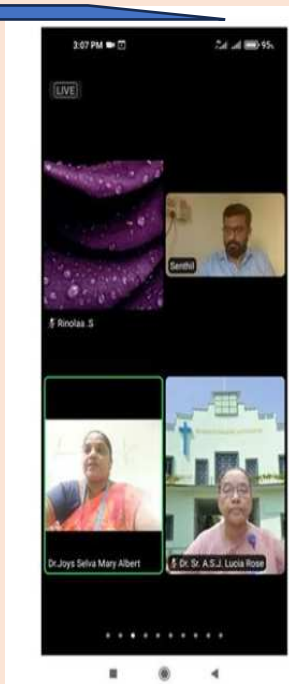


## Activities of the Association

- ➔ On 02.09.2022 an association meeting on “Bronchitis – the killer of bronchial tubes” organized by the Department of Microbiology. Dr. A. Alffer Sacred Selvin, M.B.B.S, D.T.C.D Pulmonologist, Medical Officer, District TB Centre, Thoothukudi was the resource person. Beneficiaries were 94 members



- ➔ On 29.09.2022 an association meeting on “Bacterial identification – Conventional to modern methods” was organized through online by the Department of Microbiology. Dr.M.Senthil @ Sankar, Research Fellow, Indian Council of Agricultural Research-central Tuber crops research Institute (ICAR-CTCRI), Trivandrum, Kerala.



- ➔ On 28.10.2022 an one day hands on training was conducted on “Essentials of Microbiology” by the Department of Microbiology. Dr.M.Senthil @ Sankar, Research Fellow Indian Council of Agricultural Research-central Tuber crops research Institute (ICAR-CTCRI), Trivandrum,

Kerala & Dr. M. Suriya Prabha, Scientist B, (ICMR-MRU), Tirunelveli Medical College, Tirunelveli were the resource persons. Beneficiaries were 80 members.



On 07.03.2023 a workshop on :Production and Entrepreneurship approach on Spirulina and Nanoparticles” was organized by the Department of Microbiology from 9.00 a.m to 4.00 p.m in the star hall. Dr. Sherin Sainulabdeen, Department of Biochemistry, PMS College of Dental Science and Research, Trivandrum, Kerala and Dr. G. Manivannan, Head, Department of Biotechnology, The American College, Madurai were the resource persons. Beneficiaries were around 93 members.

- 



### Lab No of Activities

Class	Number 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

The system is a move towards Student Support and Progression. It enables to achieve holistic development of

every student in the department. A teacher has a group of 10 – 15 students whose academic and other aspects of their progress are her concern. The teacher takes care to concentrate more on issues related to their psychological needs during periodical Tutor- Ward Meet each Friday from 2. 30 p.m. to 4.00 p.m. A record of academic results and bio-data of each of the students is maintained. The mentees met their mentor Ten times in the odd semester and seven times in the even semester.



Semester	Dates
ODD	29/07/22
	5/08/22
	20/08/22
	26/08/22
	16/09/22
	30/09/22
	14/10/22
	21/10/22
	28/10/22
	10/12/22
Even	16/12/22
	23/12/22
	06/01/23
	27/01/23
	3/02/23
	10/02/23
	17/02/23
	10/03/23
	17/03/23
	25/03/23
08/04/23	
13/04/23	

## Certificate Course – II and III UG

Food processing technology equipped students to apply food science to the safe and nutritious processing, packaging, distributions and usage of Food. The course was scheduled



for 30 hours duration from 29th August 2022 to 21st October 2022 from 2.00 – 4.00 p.m. and the number of students enrolled were 27

BoS – External Experts & Date, Mention  
OBE, CBCS



The Board of Studies Meeting of the Department of Microbiology was conducted on 24<sup>th</sup> April 2023 at 10.00 a.m. in the



department of Microbiology. The subject Expert of the Board of studies were Dr. P. U. Mahalingam, Professor, Department of Biology, The Gandhigram Rural Institute Deemed to be University, Dr. K. Jenitha, Assistant Professor & Head, Department of Microbiology, Scott Christian College (Autonomous), Nagercoil and K. Punitha, Research Scholar, Department of Microbiology, Kamaraj College, Thoothukudi. 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.

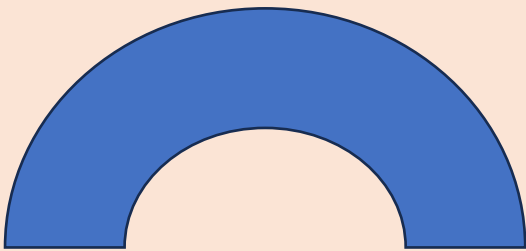
## PTA, Alumnae Meet Dates

The Parents Teachers Association conducted meetings regularly for all the parents and students of the department. The meetings were held respectively I B. SC. & I M. Sc. on 21.01.23, II B. Sc on 05.11.22 and III B. Sc & II M.Sc on 17.09.2022. The Marian Alumnae Meet was organised in commemoration of the Platinum Jubilee celebration on 11. 03. 2023. Rev. Sr. Dr. S. Decla Mary, OSM, Superior General, Servite Generalate, Chennai was the chief guest

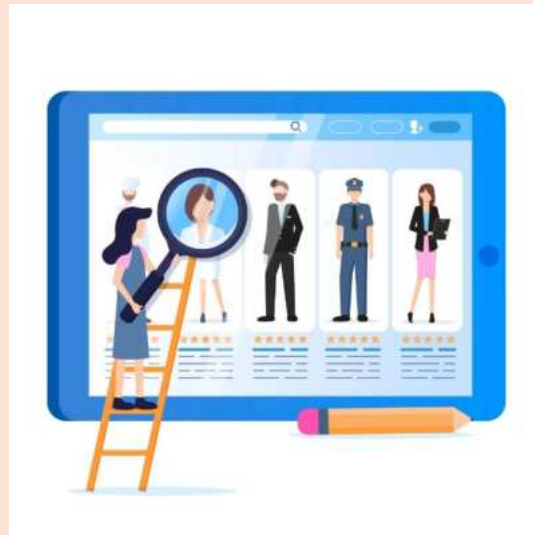
## Research Activities - Faculty

Name	Pub - Journal	Pub - Book	Conference	Seminar	Workshop	FDP	Refresh er	Orien tation	Short Term	Training Program
Dr.Joys Selva MaryAlbert	-	2	1			1				1
Dr.Siluvai Kirubagari Aneeshia		1		3						

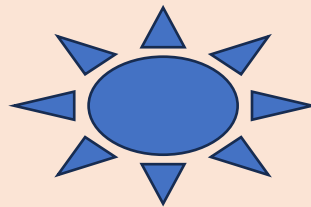
Maria Heartina Adlin Vaz			3	1	3					1
EDWARD C				1	1					
Dr.T.P.Kumari Pushpha Rani	3	2		3	1	1				
Shynisha Begam				1						



### As Resource Persons



Name	Programme	Role	Date
P.Raja Rajeshwari	Fast Food – A curse for future	Resource person	02.03.22
Dr.Joys Selva Mary Albert	Applied Health care Economics	Resource person	11.04.22
Ms.Maria Heartina Adlin Vaz	Twenzia Fest	Moderator	26.04.22

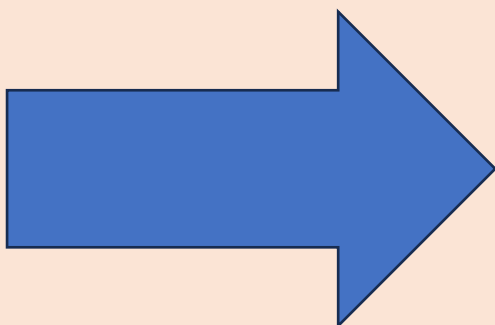


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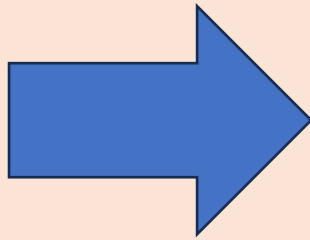
## CDP REPORT

The CDP team visited Veeranayagathattu & Periyamayagapuram on 11.08.2022, with a group of sixteen students from II B.Sc Microbiology for a one day Awareness Programme on National Flag Hoisting. The students created awareness on hoisting the National Flag in accordance with the 75 years of Indian Independence among the people of Veeranayagathattu. The students enthusiastically participated and spread the message with the placards at every doorstep of the adopted village.





The CDP team visited Periyamayapuram on 02.10.2022, with a group of sixteen students from II B.Sc Microbiology and attended Grama Sabha Meeting organized in the Panchayat office.



Unnat Bharat Abhiyan and Department of Microbiology of St. Mary's College, Thoothukudi jointly organised Grama sabha meeting in the day of Gandhi Jayanti on October 2nd 2022 near TV room Periyamayapuram, Koramballam. This Village council meeting was held under the Panchayat head Mrs. A.SelvaPrabha Adhisayaraj. Ms. Shynisha Begam, Asst. Professor Department of Microbiology and students of II B.sc. Microbiology enrolled in this event.. They discussed about village Panchayat administration, general fund expenditures and Mahatma Gandhi national rural employment scheme.



The CDP visit to Periyamayapuram was on 08.03.2023, with the group of sixteen students from II B.Sc Microbiology to organize Women's Day Celebration. The meeting was held in Government School of Tharuvaikulam. The students of II B.Sc Microbiology actively participated in the celebration by organizing

cultural programs and giving awareness speeches about women's empowerment and the need for higher education.

IIC 



To motivate the students in the field of entrepreneurship and impart entrepreneur skills and knowledge. A discussion through online was arranged on the topic “My Story – Motivational Session by Successful Entrepreneur” on 12.11.22. Dr.D.Prabhu,M.Sc.(Agri) Ph.D. Assistant professor (Crop Physiology) – S.Thangapazham Agricultural College, Vasudeva Nallur and Entrepreneur, JC FOOD Industries – Sivakasi was the resource person. Students were highly benefited in gaining knowledge in the field of Entrepreneurship

### Educational Tour/ IV Report

The Department of Microbiology (SSC) arranged a field visit for the UG and PG students to National Institute of Food Technology Entrepreneurship and Management - Thanjavur intending to enrich the practical and research knowledge in the Food Processing Technology & Food Microbiology sectors. To enrich the research knowledge in the field of marine



microbiology one day industrial visit was arranged to students to Central Marine Fisheries Research Institute, Kochi on 17.03.23 by the



Department of Microbiology (SSC).The trip was intended to inculcate research interest and self-esteem in the field of microbiology.

### STUDENTS ACTIVITIES

During the academic year 2022-2023, the students demonstrated exceptional performance across various co-curricular, extra-curricular and sports competitions and events at different



levels. Here's a detailed account of their achievements:

Ms.Sakthi Thanga Kanniga of I B.Sc Microbiology participated in Drawing competition held at Kamaraj Women's College – Thoothukudi on 17.09.2022 and won Ist Prize

→ A.S.Ajmal of II M.Sc Microbiology participated on Cooking with out fire and won I Prize conducted by Eco club – St.Mary's college (Autonomous)

Thoothukudi -12.10.22

→ M.Sameera – of II B.Sc Microbiology participated on Story telling and won Ist prize conducted by English department – St Mary's College – Thoothukudi on 16.10.22



S.Muvasu of II B.Sc Microbiology participated in intercollegiate competition and won Ist Prize in poster making competition held on 26.10.22

Ms.A.S.Ajmal of II M.Sc Microbiology participated in Quiz competition and won Ist prize conducted by NLC Tamilnadu power Limited, on 19.12.2022 .

Saranya.M of II M.Sc Microbiology participated in Quiz competition and won Ist prize conducted by NLC Tamilnadu power Limited, on 19.12.2022

The following students from I B.Sc Microbiology participated in quiz competition conducted



by St. Mary's college on 12.03.23

**(Irudhaya Snowy,  
Mercy Victoria.G,  
M.Greata, Nashrin  
Fathima.B, Sorna  
Lakshmi.V)**

## MOOC Course



The students of II M. Sc Microbiology attended MooC course titled, **Cell culture Technologies**

S. No	Reg. No	Student Name	Internal	External	Total
1.	22SPMB01	Dhivya Dharshini. T	20	24	44
2.	22SPMB02	Fathima. K	21.67	30	52
3.	22SPMB03	Iswarya. T	20.83	31.5	52
4.	22SPMB04	Jefa Sherlin. B	19.58	36	56
5.	22SPMB05	Joicy. A	20.83	42	63
6.	22SPMB06	Joselin Starina. D	20.83	24	45
7.	22SPMB07	Nidharshana. R	19.17	42	61
8.	22SPMB08	Saranya. M	21.67	46.5	68
9.	22SPMB09	Thirsal. S	21.25	33	54



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**K FATHIMA**  
for successfully completing the course

## Cell Culture Technologies

with a consolidated score of **52** %

Online Assignments	21.67/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **1229**

*Ratish*  
**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur

Aug-Oct 2022  
(8 week course)

*Satyaki*  
**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22BT64534250083

To validate the certificate



No. of credits recommended: 2 or 3



# Elite NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**JOICY A**  
for successfully completing the course

## Cell Culture Technologies

with a consolidated score of **63** %

Online Assignments	20.83/25	Proctored Exam	42/75
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Total number of candidates certified in this course: **1229**

*Ratish*  
**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur

Aug-Oct 2022  
(8 week course)

*Satyaki*  
**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22BT64534250182

To validate the certificate



No. of credits recommended: 2 or 3



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**T ISWARYA**  
for successfully completing the course

## Cell Culture Technologies

with a consolidated score of **52** %

Online Assignments	20.83/25	Proctored Exam	31.5/75
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Total number of candidates certified in this course: **1229**

*Ratish*  
**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur

Aug-Oct 2022  
(8 week course)

*Satyaki*  
**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22BT64534250581

To validate the certificate



No. of credits recommended: 2 or 3



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**JEFA SHERLIN B**  
for successfully completing the course

## Cell Culture Technologies

with a consolidated score of **56** %

Online Assignments	19.58/25	Proctored Exam	36/75
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Total number of candidates certified in this course: **1229**

*Ratish*  
**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur

Aug-Oct 2022  
(8 week course)

*Satyaki*  
**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur

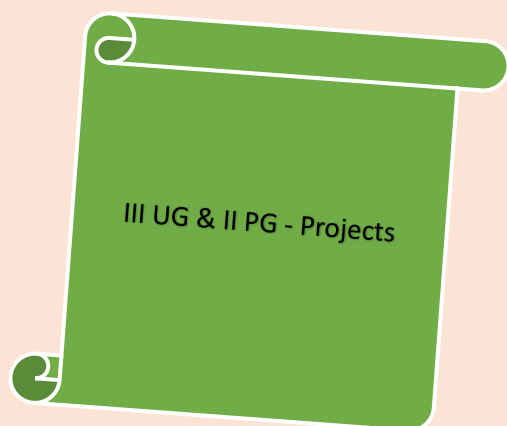


Roll No: NPTEL22BT64534250740

To validate the certificate



No. of credits recommended: 2 or 3



### III UG & II PG – No. of Projects

A total of 27 UG students submitted their project and their detail is as follows

S.No	Name	Reg No	Title of the Project	Guided by
1	Anantha Jothi	20SUMB01	Evaluation of Anti – Cancer potential of <i>E.aromaticus</i> on Human colon p.cancer cell lines	Ms.Shynisha Begam
2	Anista Mary Febbi P	20SUMB03		
3	Atshaya	20SUMB04		
4	Bershiya	20SUMB05		
5	Chandana Mari	20SUMB06		
6	Christiyana	20SUMB07	Characterisation and applications of bacterial metabolite isolated from earth worm gut associated bacteria	Mr.EDWARD C
7	Devibala	20SUMB08		
8	Ishwarya	20SUMB09		
9	Jemima Jeba Thangam	20SUMB10		
10	Kalyani	20SUMB11		
11	Kavitha	20SUMB12	Isolation and identification of contaminating micro organism from used cosmetic products	Ms. Maria Heartina Adlin Vaz
12	Kebista	20SUMB13		
13	Manisha R	20SUMB14		
14	Mathivathini	20SUMB15		
15	Meshila	20SUMB16		
16	Ramya Angel	20SUMB18	Evaluation of antimicrobial,anti-inflammatory Phyto chemical analysis of <i>Ocimum Basillicum</i> leaf extract against pathogenic micro organism	Dr.Siluvai Kirubagari Aneeshia
17	Ramya V	20SUMB19		
18	Refnisha	20SUMB20		
19	Ritu Korera	20SUMB21		
20	Sam steffy	20SUMB23		
21	Saraswathy	20SUMB24		

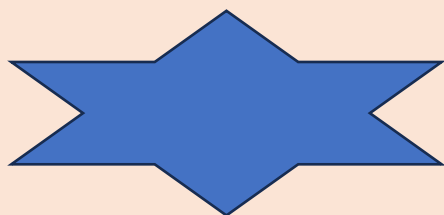
22	Shyni Thrisha	20SUMB25	A study on pharmacological activities of acetonic extracted from MUS 4 Aucminata leaves	Dr.Joys Selva Mary Albert
23	Sindhu	20SUMB26		
24	Sinthiya	20SUMB27		
25	Sonia	20SUMB28		
26	Uma Kanniga	20SUMB29		
27	Vinothini	20SUMB30		

## PG projects

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

S.No	Name	Reg No	Title of the Project	Guided by
1	A.S .Ajmal Rizwana	21SPMB01	Valorization of pomegranate peel wastes by ferulic acid degrading bacteria and biovanilim production	A.Maria Heartina Adlin Vaz
2	Mushina Thahira	21SPMB02	Evaluation of wound heling and blood clotting potential of spider web and synthesis of silver nanoparticles and its biofilm activity	Dr.Siluvai Kirubagari Aneeshia
3	Rinolaa s	21SPMB03	Nanoparticle synthesis and characterisation study from <i>P.stylifera</i> shrimp and their anticacer activity	Ms,Shynisha Begam
4	Selzia R	21SPMB04	A Study on pharmacological activities <i>c.quadraangularis</i>	Dr.Joys Selva Mary Albert
5	Vincy N	21SPMB05	Screening of element concentration in marine macrophyte of Tuticorin	Dr.T.P.Kumari Puspha Rani

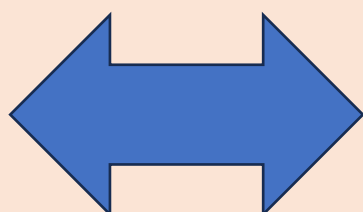
			coast,Southeast coast of india	
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### III UG & PG Pass percentage

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

### Higher education



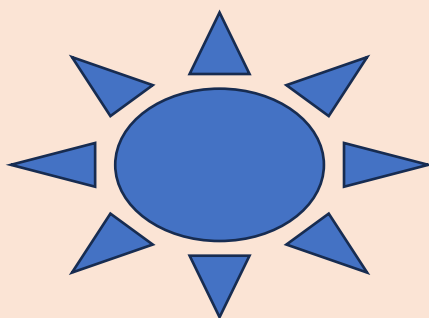
The table below displays III B.Sc Microbiolgy. students pursuing higher education

Name of student enrolled for higher education	Programme completed	Name of institution joined	Name of programme admitted to
Bershiya	B.Sc Microbiology	Kamaraj College,Thoothukudi.	M.Sc Microbiology.
Chandana Mari	B.Sc Microbiology	Kamaraj College,Thoothukudi.	M.Sc Microbiology.
Devi Bala	B.Sc Microbiology	Kamaraj College,Thoothukudi.	M.Sc Microbiology.



Kebista	B.Sc Microbiology	Kamaraj College,Thoothukudi.	M.Sc Microbiology.
Rithu Corera	B.Sc Microbiology	Kamaraj College,Thoothukudi.	M.Sc Microbiology.
Refnisha	B.Sc Microbiology	Kamaraj College,Thoothukudi.	M.Sc Microbiology.
Saraswathi	B.Sc Microbiology	Kamaraj College,Thoothukudi.	M.Sc Microbiology.
Vinothini	B.Sc Microbiology	Kamaraj College,Thoothukudi.	M.Sc Microbiology.
Sam Steffy	B.Sc Microbiology	The American College,Madurai.	M.Sc Microbiology.
Meshila	B.Sc Microbiology	The American College,Madurai.	M.Sc Microbiology.
Mathivathani	B.Sc Microbiology	The American College,Madurai.	M.Sc Food science & Nutrition.
Manisha	B.Sc Microbiology	Women's Christian College,Chennai.	M.Sc Biotechnology.
Sonia	B.Sc Microbiology	Sadakathullah Appa College,Tirunelveli.	M.Sc Microbiology.
Sindhu	B.Sc Microbiology	Hindusthan College,Coimbatore	M.Sc Microbiology.
Christyana	B.Sc Microbiology	SRM College,Chennai.	M.B.A (Healthcare& Hosp Mgt).
Ramya Angel	B.Sc Microbiology	St,Thomas College of education,Thoothukudi.	Biological Science.

## 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
2022 - 2023	Jemima Jeba Thangam	B.Sc Microbiology	Vitality Aquaculture pvt ltd - Thoothukudi	14000
	Kalyani	B.Sc Microbiology	Vitality Aquaculture pvt ltd - Journal	14000
	S.Ishwarya	B.Sc Microbiology	MFG Team in Foxcorn Chennai	14,500
	Kavitha D	B.Sc Microbiology	Amulsiya Sea food private ltd	12,000
2022 - 2023	Rabiy Begam	M.Sc Microbiology	Vitality Aquaculture pvt ltd - Journal	16,000