



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்
MANONMANIAM SUNDARANAR UNIVERSITY
Abishekapatti, Tirunelveli 627 012

Reaccredited with "A" Grade by NAAC
Phone: 0462-2338632, Fax: 0462-2334363

e-mail: registrar@msuniv.ac.in; Website: www.msuniv.ac.in

Prof. J. Sacratees, Ph.D.,
Registrar

Ref.MSU/R/CFR/R1/RC/2024

12.10.2024

To

✓ The Secretary,
St. Mary's College (Autonomous)
Thoothukudi.

Sir/Madam,

Sub: St.Mary's College (Autonomous), Thoothukudi - Renewal of
Research Centre in **Botany** – intimation - reg.

Ref: Letter Nos.RMSU/101/2023-2024, dated 02.04.2024,
12.04.2024 & 07.10.2024 received from the Principal, St.Mary's
College (Autonomous), Thoothukudi.

With reference to the above, I am, by direction, to inform that Renewal of
Research Centre, Department of **Botany** in your college has been granted for the
academic year **2024 - 2025**, so as to continue the Ph.D Programme.

Further I am also to inform that all the approved research centres in your
College should be renewed every year with a fee of Rs.10,000/- towards renewal from
the academic year 2025-2026.

Copy to:

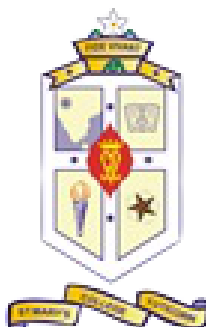
The Principal,
St. Mary's College (Autonomous)
Thoothukudi.

[Signature]
16/10/24
REGISTRAR
2/3

ST. MARY'S COLLEGE (Autonomous)

THOOTHUKUDI

(Reaccredited with 'A+' Grade by NAAC)



RESEARCH DEPARTMENT OF BOTANY

Detailed Proposal

Submitted to



MANONMANIAM SUNDARANAR UNIVERSITY

Tirunelveli

for

RENEWAL OF RECOGNITION OF RESEARCH CENTRE

APRIL 2024



MANONMANIAM SUNDARANAR UNIVERSITY

CENTRE FOR RESEARCH

ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMIL NADU, INDIA



Inspection Commission Proforma for Recognition / Renewal of Research Centre

1. Name of the College/ Institution : St. Mary's College (Autonomous), Thoothukudi
2. Head / Co-ordinator of the Research Centre : Sr. Dr. A. Arockia Jenecius Alphonse
3. Name of the Department : Botany
4. Courses offered : U.G., P.G., Ph.D.

Name of the Programme	Starting Year
B.Sc. Botany	1957
M.Sc. Botany	1972
M.Phil. Botany	1987
Ph.D.	2000

5. List of Faculty Members working at present (Enclose the copy of the qualification approval)

Name of the Faculty	Qualification	Date of Appointment	Department	Area Specialization
Dr. A. Arockia Jenecius Alphonse	M.Sc., M.Phil., Ph.D.	05.10.2007	Botany	Algal Biotechnology
Dr. A. Jacintha Tamil Malar	M.Sc., M.Phil. Ph.D.	08.10.2007	Botany	Taxonomy, Microbiology
Dr. G. Flora	M.Sc., M.Phil., Ph.D.	01.08.2014	Botany	Pathology, Nanotechnology, Environmental Biotechnology
Dr. S. Beulah Jerlin	M.Sc., M.Phil., Ph.D.	01.08.2014	Botany	Bio-Diversity and Conservation, Stress Physiology, Ecological Studies, (Field and Lab), Molecular Biology
Dr. E. Daffodil D Almeida	M.Sc. SET., Ph.D.	01.08.2014	Botany	Physiology and Seed Biochemistry
Dr. F. Dayana Lobo	M.Sc., M.Phil., Ph.D.	22.11.2017	Botany	Taxonomy, Algology Microbiology
Dr. B. Maria Sumathi	M.Sc., M.Phil., Ph.D.	22.11.2017	Botany	Taxonomy, Microbiology



ST. MARY'S COLLEGE
THOOTHUKUDI - 628 001.

Secretary
Office : 0461 - 2320046
Principal : 0461 - 2321606

PROCEEDINGS OF THE SECRETARY

Ref. No: A.O. 5/2007-2008.

Date: 04.10.2007

APPOINTMENT ORDER

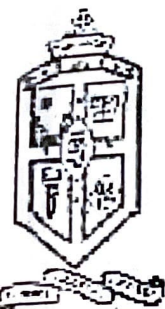
Sr. A. Arockia Jenecius Alphonse, M.Sc., M.Phil., is selected and appointed as Lecturer in Botany in this College with effect from 05.10.2007 in the retirement vacancy of Dr. Tmt. B. Leelambika, Reader in Botany & HOD in the scale of pay of Rs. 8000-275-13500 with usual allowances permissible under the rules and according to the terms and conditions stipulated by the College.

You have to produce your fitness certificate issued by the Civil Surgeon at the time of your joining duty.

[Signature]
Secretary
St. Mary's College
Tuticorin-628 001

To
Sr. A. Arockia Jenecius Alphonse, M.Sc., M.Phil.,
Servite Convent,
St. Mary's College,
Thoothukudi - 628 001.

Copy to:
The Joint Director of Collegiate Education,
Regional Office,
Thiruvancheli - 627 003.



ST. MARYS COLLEGE
THOOTHUKUDI - 628 001.

Secretary /
Office 0451 - 2320846
Principal 0451 - 2321098

PROCEEDINGS OF THE SECRETARY

Ref. No: A.O. 12/2007-2008.

Date: 05.10.2007

APPOINTMENT ORDER

Mrs. A. Jacintha Tamil Malar, M.Sc., M.Phil., is selected and appointed as Lecturer in Botany in this College with effect from 08.10.2007 in the Voluntary Retirement vacancy of Dr. Mrs. Premila Devi Mary Singaram, Reader in Botany in the scale of pay of Rs: 8000-275-13500 with usual allowances permissible under the rules and according to the terms and conditions stipulated by the College.

You have to produce your fitness certificate issued by the Civil Surgeon at the time of your joining duty.

Jacintha Tamil Malar
Secretary,
St. Mary's College,
Thoothukudi-628 001.

To
Mrs. A. Jacintha Tamil Malar, M.Sc., M.Phil.,
172, Vagheesam Pillai Road,
Ponnappa Nagar,
Nagercoil.

Copy to:
The Joint Director of Collegiate Education,
Regional Office,
Thiruvallur - 627 003.



Secretary

ST. MARY'S COLLEGE (Autonomous)

(Re-accredited with "A" Grade by NAAC)

THOOTHUKUDI - 628 001.

Secretary : 0461 - 2320946

Resi : 0461 - 2321460

Fax : 0461 - 2320947

E-mail : smctuty@gmail.com

smctuty1948@gmail.com

Website : www.stmaryscollege.edu.in

PROCEEDINGS OF THE SECRETARY

Ref. No: A.O./2014-2015

Date : 31.07.2014

APPOINTMENT ORDER

Dr. Tmt. G. Flora M.Sc., M. Phil., Ph.D. is selected and appointed as Assistant Professor of Botany in this college with effect from 01.08.2014 (fore noon) in the Vacancy of Dr. Tmt. X. Rosary Mary, Associate Professor of Botany in the scale of pay of Rs.15600-39100+ AGP Rs.6000/- with usual allowances permissible under the rules and according to the terms and conditions stipulated by the College.

You have to produce your fitness certificate issued by the Civil Surgeon at the time of your joining duty.

Condition

- She is further informed that her appointment is subject to the approval of the The Registrar, Manonmaniam Sundaranar University, Tirunelveli and the Joint Director of Collegiate Education, Tirunelveli and the Director of Collegiate Education, Chennai.

To:

Dr. Tmt. G. Flora

73/11E, Polepettai

Thoothukudi - 2

Copy to :

The Joint Director of Collegiate Education,

Thirunelveli Region,

Thirunelveli - 627 001

Secretary

SL Mary's College (Autonomous)

Thoothukudi - 628 001



Secretary

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E-mail : smctuty@gmail.com

smctuty1948@gmail.com

Website : www.stmaryscollege.edu.in

PROCEEDINGS OF THE SECRETARY

Ref. No: A.O./2014-2015

Date : 31.07.2014

APPOINTMENT ORDER

Dr. Tmt. S. Beulah Jerlin M.Sc., M. Phil., Ph.D. is selected and appointed as Assistant Professor of Botany in this college with effect from 01.08.2014 (fore noon) in the Retirement Vacancy of Tmt. V. Santhalakshmi Annathai, Associate Professor of Botany in the scale of pay of Rs.15600-39100+ AGP Rs.6000/- with usual allowances permissible under the rules and according to the terms and conditions stipulated by the College.

You have to produce your fitness certificate issued by the Civil Surgeon at the time of your joining duty.

Condition

- She is further informed that her appointment is subject to the approval of the The Registrar, Manonmaniam Sundaranar University, Tirunelveli and the Joint Director of Collegiate Education, Tirunelveli and the Director of Collegiate Education, Chennai

To:

Dr. Tmt. S. Beulah Jerlin

2/142, Church Street

Korampallam - 628 101

Copy to :

The Joint Director of Collegiate Education,

Thirunelveli Region,

Thirunelveli - 627 001

Secretary

St. Mary's College (Autonomous)

Thoothukudi - 628 001.



Secretary

ST. MARY'S COLLEGE (Autonomous)

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THOOTHUKUDI - 628 001.

Secretary : 0461 - 2320946

Resi : 0461 - 2321460

Fax : 0461 - 2320947

E-mail : smctuty@gmail.com

smctuty1948@gmail.com

Website : www.stmaryscollege.edu.in

PROCEEDINGS OF THE SECRETARY

Ref. No: A.O./2014-2015

Date : 31.07.2014

APPOINTMENT ORDER

Selvi E. Daffodil D Almeida M.Sc., SET. is selected and appointed as Assistant Professor of Botany in this college with effect from 01.08.2014 (fore noon) in the Vacancy of Dr. Tmt. C. Poppy Mary Vimala Bai, Associate Professor of Botany in the scale of pay of Rs.15600-39100+ AGP Rs.6000/- with usual allowances permissible under the rules and according to the terms and conditions stipulated by the College.


You have to produce your fitness certificate issued by the Civil Surgeon at the time of your joining duty.

Condition

- She is further informed that her appointment is subject to the approval of the The Registrar, Manonmaniam Sundaranar University, Tirunelveli and the Joint Director of Collegiate Education, Tirunelveli and the Director of Collegiate Education, Chennai

To:
Selvi E. Daffodil D' Almeida
105, North Beach Road
Thoothukudi - 1

Copy to :
The Joint Director of Collegiate Education,
Thirunelveli Region,
Thirunelveli - 627 001


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



Secretary

ST. MARY'S COLLEGE (Autonomous)
THOOTHUKUDI - 628 001.

Secretary : 0461 - 2339166
Office : 0461 - 2320946
Resi : 0461 - 2321460
Fax : 0461 - 2320947
E-mail : smctuty@gmail.com
smctuty1948@gmail.com
Website : www.stmaryscollege.edu.in

PROCEEDINGS OF THE SECRETARY

Ref. No: A.O.1/Botany /2017

Date : 21.11.2017

APPOINTMENT ORDER

Dr. Tmt. F. Dayana Lobo, M.Sc., M.Phil., Ph.D. is selected and appointed as Assistant Professor of Botany in this college with effect from 22.11.2017 (fore noon) in the Retirement Vacancy of Dr.Tmt.J. Dulcy Elizabeth, Associate Professor of Botany in the scale of pay of Rs.15600-39100+ AGP Rs.6000/- with usual allowances permissible under the rules and according to the terms and conditions stipulated by the College.

You have to produce your fitness certificate issued by the Civil Surgeon at the time of your joining duty.

Condition

- She is further informed that her appointment is subject to the approval of the The Registrar, Manonmaniam Sundaranar University, Tirunelveli and the Joint Director of Collegiate Education, Tirunelveli and the Director of Collegiate Education, Chennai.

To:

Dr. Tmt. F. Dayana Lobo
No: 240 A, Therespuram
Siluvaiyar Koil Street
Thootukudi - 1

Dayana Lobo
Secretary
St. Mary's College (Autonomous)
Thoothukudi - 628 001

Copy to :

The Joint Director of Collegiate Education,
Thirunelveli Region
Thirunelveli - 627 001



Secretary

ST. MARY'S COLLEGE (Autonomous)
THOOTHUKUDI - 628 001.

Secretary 0461 - 2339166
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Fax 0461 - 2320947
E-mail smctuty@gmail.com
smctuty1948@gmail.com
Website www.stmaryscollege.edu.in

PROCEEDINGS OF THE SECRETARY

Ref. No: A.O.2/Botany /2017

Date : 21.11.2017

APPOINTMENT ORDER

Dr. Tmt. B. Maria Sumathi, M.Sc., M.Phil., Ph.D. is selected and appointed as Assistant Professor of Botany in this college with effect from 22.11.2017 (fore noon) in the Retirement Vacancy of Dr. Sr. Maria Elizabeth Vijili, Associate Professor of Botany in the scale of pay of Rs.15600-39100+ AGP Rs.6000/- with usual allowances permissible under the rules and according to the terms and conditions stipulated by the College.

You have to produce your fitness certificate issued by the Civil Surgeon at the time of your joining duty.

Condition

- She is further informed that her appointment is subject to the approval of the The Registrar, Manonmaniam Sundaranar University, Tirunelveli and the Joint Director of Collegiate Education, Tirunelveli and the Director of Collegiate Education, Chennai.

To:

Dr. Tmt. B. Maria Sumathi
No: 281/4B Mathaver Nayer Colony
Therespuram
Thootukudi - I

Copy to :

The Joint Director of Collegiate Education,
Thirunelveli Region
Thirunelveli - 627 008

Dr. Maria Sumathi

Dr. Maria Sumathi

ST. MARY'S COLLEGE (Autonomous)

THOOTHUKUDI - 628 001.

Secretary 0461 - 2339166
Office 0461 - 2320946
Resi 0461 - 2321460
Fax 0461 - 2320947
E-mail smctuty@gmail.com
smctuty1948@gmail.com
Website : www.stmaryscollege.edu.in

PROCEEDINGS OF THE SECRETARY

Ref. No: A.O.3/Botany /2017

Date : 21.11.2017

APPOINTMENT ORDER

Tmt. S. Pauline Jenifer, M.Sc., SET. is selected and appointed as Assistant Professor of Botany in this college with effect from 22.11.2017 (fore noon) in the Retirement Vacancy of Dr. Tmt. Uthayakumari Kalavathy, Associate Professor of Botany in the scale of pay of Rs.15600-39100+ AGP Rs.6000/- with usual allowances permissible under the rules and according to the terms and conditions stipulated by the College.

You have to produce your fitness certificate issued by the Civil Surgeon at the time of your joining duty.

Condition

- She is further informed that her appointment is subject to the approval of the The Registrar, Manonmaniam Sundaranar University, Tirunelveli and the Joint Director of Collegiate Education, Tirunelveli and the Director of Collegiate Education, Chennai.

To:

Tmt. S. Pauline Jenifer
No: 1 F Chezhunchupar Street
Samathanapuram
Palayamkotti
Tirunelveli

Copy to :

The Joint Director of Collegiate Education.
Thirunelveli Region
Thirunelveli - 627 008

Pauline Jenifer
Secretary
ST. MARY'S COLLEGE
THOOTHUKUDI - 628 001



மனோன்மனியம் சுந்தரனார் பல்கலைக்கழகம்
Manonmaniam Sundaranar University

State University
Accredited with "A" Grade by NAAC

Tirunelveli -627 012, Tamilnadu, India

Cell:94879 01000, Phone:0462-2338632, Fax:0462- 2334363
E_mail: registrar@msuniv.ac.in, Website: www.msuniv.ac.in

Dr.S.SANTHOSH BABOO
REGISTRAR

MSU/R/CDC/A6/221/Q.A/A.P(P)

05.12.2019

To
The Secretary
St. Mary's College
Thoothukudi - 628 001

Sir/Madam,

Sub: Qualification of Dr. R. Mary Santhi - Assistant Professor of Botany
(Permanent) – Approved – intimated - reg.

Ref: Your letter No.RMSU/101/Q.A./2019, dated 20.09.2019

With reference to the above, I am by direction to inform that the Educational Qualification of the following individual has been verified and approved as per the U.G.C. Regulations.

Name of the incumbent with department	Educational Qualification with Class and year of passing	Date of approval of qualification
Dr. R. Mary Santhi Assistant Professor of Botany (Permanent Vacancy) DOI: 17.06.2019 F.N.	M.Sc., - Botany, April 2008, First Class with Distinction, Manonmaniam Sundaranar University, Tirunelveli-12 M.Phil., - Botany, January 2010, First Class University of Madras, Chennai Ph.D. - Botany, (V.V. 02.11.2018), Manonmaniam Sundaranar University, Tirunelveli-12	17.06.2019F.N.

However, the appointment procedure and other terms have to be verified by the Director of Collegiate Education, Chennai/ Regional Joint Director of Collegiate Education, Tirunelveli/ Competent authority of Government.

Yours faithfully,


REGISTRAR.

Copy to:

1. The Director of Collegiate Education, Chennai.
2. The Regional Joint Director of Collegiate Education, Tirunelveli.
3. The Principal.
4. The Individual.



MANONMANIAM SUNDARANAR UNIVERSITY

CENTRE FOR RESEARCH

ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMIL NADU, INDIA



Ms. S. Pauline Jenifer	M.Sc., B.Ed., SET	22.11.2017	Botany	Phytochemistry
Dr. R. Mary Santhi	M.Sc., M.Phil., Ph.D.	17. 06.2019	Botany	Algology, Microbiology

6. Library facilities for the Research Centre

Area in square feet	Total No. of Books Available*	Total No. of Journals Available*	Total No. of Computer Systems with Internet facilities
3900	3275	Botany -- 7 General -- 14 = 21 (Annexure I)	11

7. Area / Space for the Research Scholars Room: 17'0" x 21'



MANONMANIAM SUNDARANAR UNIVERSITY

CENTRE FOR RESEARCH

ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMIL NADU, INDIA



8. Facilities Available in the Research Centre :

(a)	Space for Research Scholars	
	In the Department	17'0" x 21'9"
	In the Library for reading	27'0" x 45'9"
(b)	Internet Facility	Yes
(c)	Computer facilities with internet access and related software	Yes
(d)	Uninterrupted power supply	Yes
(e)	Water Supply	Yes

(f)	For SCIENCE AND TECHNICAL DISCIPLINES	
	Research Laboratory (provide the no. of labs, their space, and other infrastructures)	<ul style="list-style-type: none">• Plant Diversity lab (40'6" x 45'9")• Tissue culture lab (28'0" x 22'0")• Microbiology lab (27'0" x 45'9")• Biochemistry lab (19'3" x 45'9")• Instrumentation Room (12'0" x 18' 12")• Bioinformatics lab (10' 0"x 12' 0") Other infrastructure: Herbarium Unit, ICT tools, Garden, Fossil Cabinet, Mushroom Cultivation Unit
	List of Minor Equipments along with date of purchase with cost (between Rs. 10,000/- to Rs. 1,00,000/-)	Annexure II
	Major Equipments along with date of purchase with cost (> Rs. 1,00,000/-)	

9. Total Number of ongoing / submitted Research Scholars: (Annexure III)

Full Time	Part-Time
7 (Ongoing)	3 (Ongoing)



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ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMIL NADU, INDIA



10. Total number of scholars already Awarded (Annexure IV)

Full Time	Part-Time
10	7

11. Budget allocation (Year wise)

Previous Year (2022-2023)	Current Year (2023-2024)
Instruments -- Rs. 19,393.00 Journals -- Rs. 18,000.00 Books -- Rs. 16,104.00 Total -- Rs. 53,497.00	Chemicals -- Rs. 10,000.00 Instruments -- Rs. 54,675.00 Books -- Rs. 19,336.12 Glassware -- Rs. 15,367.00 Total -- Rs. 99,378.12

12. Conferences / Seminar conducted (including Co-ordinator with fund allocated) / Funding agency

Name of the Conference / Seminar	Fund Allotted	Sponsoring Agency	Name of the Coordinator
An International Conference on Microalgae Biodiversity and Bioprospecting	Rs.38597.00	DBT Star College Scheme	Dr. A. Arockia Jenecius Alphonse
A National Lecture cum Training Program on Taxonomic Tale of Plant Kingdom	Rs.50,531.00	DBT Star College Scheme	Dr. A. Arockia Jenecius Alphonse
Two days international conference on Applied Biosciences a Sustainable Developmental Goal	Rs.15,000.00	DBT Star College Scheme	Dr. M. Glory
National Webinar on Recent Trends in Microbial Technology	Rs.7,500.00	DBT Star College Scheme	Dr. M. Glory
International Webinar on Climate Change and Future Challenges	Rs.12,500.00	DBT Star College Scheme	Dr. M. Glory



13. Research Proposal with Plan of Action

RESEARCH PROPOSAL 1:

Title: Exploring the Bioactive Compounds of Medicinal Plants: Phytochemical Profiling and Therapeutic Potential.

Principal Investigator: Dr. S. Beulah Jerlin **Co-Investigator:** Dr. B. Maria Sumathi

Objectives: To identify and characterize the bioactive compounds present in selected medicinal plants.
To evaluate the therapeutic potential of these compounds through various assays and studies.
To understand the correlation between phytochemical profiles and therapeutic efficacy.

Duration: 24 – 36 Months

Estimate: 1 Lakhs

Outcomes: The study underscores the rich diversity of bioactive compounds in medicinal plants and their substantial therapeutic potential. The identified compounds exhibit a range of biological activities that could be harnessed for therapeutic applications. Continued research into the mechanisms of action and clinical trials will be crucial to translate these findings into practical treatments.

RESEARCH PROPOSAL 2:

Title: Comprehensive Study on the Isolation and Characterization of Microalgae from Ecological Niches in Tuticorin District

Principal Investigator: Dr. G. Flora **Co-investigator:** Dr. A. Arockia Jenecius Alphonse

Objectives: To isolate microalgae from diverse ecosystems
To characterize the isolated microalgal strains
To analyze the environmental factors influencing microalgal diversity

Duration: 24 Months

Estimate: 1 Lakhs

Outcomes: The project will produce a comprehensive catalog of microalgal species isolated from diverse ecosystems in Tuticorin District, serving as valuable baseline data for future ecological and biotechnological research. The project will also reveal how environmental factors affect microalgal diversity and distribution, helping us understand ecological dynamics and the impact of environmental changes. The project will increase knowledge of microalgal biodiversity in Tuticorin District, helping with the conservation and sustainable management of these important resources.

RESEARCH PROPOSAL 3:

Title: Macroalgal Diversity along an Environmental Gradient in Thoothukudi District

Principal Investigator: Dr. R. Mary Santhi **Co-investigator:** Dr. F. Dayana Lobo

Objectives: To investigate the distribution of macroalgae



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ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMIL NADU, INDIA



To analyze the spatial distribution of macroalgae and the environmental parameters

Duration: 24 Months

Estimate: 75,000

Outcomes: Findings of the study determine the distribution of macroalgae along an environmental gradient. The study reveals the influence of salinity, temperature, nitrite, and nitrate on the occurrence of macroalgae. Results of the current research can be used as a basis for better conservation and management design for the ecosystem in the future.

RESEARCH PROPOSAL 4:

Title: The Role of Post-Harvest Treatments in Modulating Seed Biochemical Composition: A Comprehensive Analysis

Principal Investigator: Dr. E. Daffodil D Almeida **Co-Investigator:** Ms. S. Pauline Jenifer

Objectives: 1. To analyze the impact of various post-harvest treatments on the nutritional profile of seeds.
2. To determine the suitable treatment for reducing the effect of anti-nutritional factors
3. To compare the efficacy of different post-harvest treatments

Duration: 24 Months

Estimate: 50,000

Outcomes: Variations in secondary metabolites such as phenolic compounds and flavonoids due to post-harvest treatments, leading to enhanced antioxidant properties of seeds will be analyzed. Correlation between biochemical changes and post-harvest treatments resulting in recommendations for post-harvest treatments that optimize seed quality will be identified. Effect of post-harvest treatments on nutrient content of seeds, guiding the selection of treatments that maximize nutritional value will be determined

RESEARCH PROPOSAL 5:

Title: Survey of Angiospermic plants in Thoothukudi

Principal Investigator: Dr. A. Jacintha Tamil Malar **Co-investigators:** Dr. A. Antony Selvi and Dr. P. Hermalin

Objectives: 1. To make thorough survey of angiospermic plants.
2. To provide short description of the dominant families in Dicotyledons (Polypetalae, Gamopetalae, monochlamydeae) and in monocotyledons.
3. To provide a list of medicinal plants along with their usage and also to document environmentally, economically useful and ornamental plants.

Duration: 24 Months

Budget: 50, 000

Outcomes: Findings of the study provides the list of available plants for pharmacological studies. Catalog of useful medicinal plants in Thoothukudi will be prepared. IUCN red list status of plants will be identified



MANONMANIAM SUNDARANAR UNIVERSITY

CENTRE FOR RESEARCH

ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMIL NADU, INDIA



14. Research Publications

(a) International

No.	Title of the Journal	Name of the Journal	Year	Impact Factor (if any)
1.	Identification and quantification of potential bioactive compounds from seaweed of <i>Champia compressa</i>	International Journal of Pharmaceutical Sciences and Research	2023	SNIP: 0.485
2.	Current research trends on cosmetic microplastic pollution and its impacts on the ecosystem: A review	Environmental Pollution	2023	SNIP: 1.704
3.	Assessing the bioactive potential of low-cost textile dyes extracted from brown seaweeds and their dyeing properties	Environmental Science and Pollution Research	2023	SNIP: 1.214
4.	Induction of Apoptosis in <i>Candida albicans</i> by Semi-purified Fraction of <i>Hypnea musciformis</i>	Asian Journal of Biological and Life Sciences	2023	-
5.	Recent advances in remediation strategies for mitigating the impacts of emerging pollutants in water and ensuring environmental sustainability	Journal of Environmental Management	2023	SNIP:13.4
6.	Biosynthesis, characterization and corrosion inhibition efficiency of silver nanoparticles using ascidians	European Chemical Bulletin	2023	-
7.	Assessing the bioactive potential of low-cost textile dyes extracted from brown seaweeds and their dyeing properties	Environmental Science and Pollution Research	2023	SNIP: 5.8
8.	Differentiation of heavy metal distribution in mangrove sediment of Thoothukudi coast, TN	International Journal of Current Science	2022	-
9.	Synthesis and diffraction, computational exposure, hardness and interaction studies of EN2MNYM3NA crystalline material for mechanized, electronic and bio utilities	Materials Today: Proceedings	2022	SNIP: 0.774
10.	Density Functional Theory (DFT) Studies for Quadrupole and Octapole Moments, Field Analysis by Theoretical Interactions by Softwares and Anti-Diabetic (AD), AntiOxidant (AO) Bio-Pharma Properties of the DLA Crystals	AIP Conference Proceedings	2022	SNIP: 0.247
11.	Growth, computation-structure-elucidation, antidiabetic use of 1,4-Bis(2-Nitrobenzyl) piperazine (BNBPP) macro, nano crystals	AIP Conference Proceedings	2022	SNIP: 0.247
12.	Technological advances in the production of carotenoids and their applications - A critical review	Bioresource Technology	2022	SNIP: 2.016



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ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMIL NADU, INDIA



13.	Advanced technologies on the sustainable approaches for conversion of organic waste to valuable bioproducts: Emerging circular bioeconomy perspective	Fuel	2022	SNIP: 1.902
14.	Bio Utility and Structural Enrichment of Diethylammonium Diethyldithiocarbamate (DADDTC) Macro and Nano Scaled Crystals	AIP Conference Proceedings	2022	SNIP: 0.247
15.	Anti-Inflammatory Activity of LPAM Nano Crystals and Hirshfeld Impact on Crystals	AIP Conference Proceedings	2022	SNIP: 0.247
16.	Structural Explication by Software and Anti-Diabetic Effectiveness of L-Phenylalaninium Maleate (LPAM) Macro and Nano Crystalline Samples	AIP Conference Proceedings	2022	SNIP: 0.247
17.	<i>Pleurotus</i> Cultivation: A Sustainable Way to Utilize Agrowaste	Acta Agriculture Slovenica	2022	-
18.	Impact of Freezing on the Nutritive Content of <i>Penaeus indicus</i> in Thoothukudi Coastal Region of Tamil Nadu, India	Bulletin of Environment, Pharmacology and Life Sciences	2022	-
19.	Anti -diabetic, Anti - oxidant, Fluorescence and filter characterizations of Bis glycine lithium bromide monohydrate (BGLBMH) macro and nano -scaled crystals	International Journal on Current Research and Review	2022	-
20.	Structural Explication by Software and Anti-Diabetic Effectiveness of L-Phenylalaninium Maleate (LPAM) Macro and Nano Crystalline Samples	AIP Conference Proceedings	2022	SNIP: 0.247
21.	Morphological Phytochemical and Fourier transform infrared Spectroscopy (FTIR) Spectroscopy Analysis of selected species of Portulacaceae: A Study	International Journal of current Research and Review	2022	-
22.	Ethnobotanical Survey of Medicinal Plants in Korampallam Village. Thoothukudi Districts. Tamilnadu, India	International Journal of Pharmacognosy and Phytochemical Research	2022	-
23.	Screening and Evaluation of Biodegradability of Polythene by Soil Bacteria	Indian Journal of Natural Sciences	2021	-
24.	Synthesis, growth, XRD, NLO, CHNSO, computational-structural, dielectric, photoconductivity, hardness and biostudies of diethyl 2-amino-5-{4-[bis (4-methyl phenyl) amino] benzamido} thiophene-3,4-dicarboxylate (DABMPABTD) macro-, nano crystals for device fabrication, pharma, electronic uses	Journal of Materials Science: Materials in Electronics	2021	SNIP: 0.681
25.	Synthesis, growth, XRD, NLO, CHNSO, structure by theoretical approach, dielectric, absorbance, photoconductivity and bio studies of 4-(4-Acetyl-5-Methyl-1H-1, 2, 3-Triazol-1-yl) Benzonitrile crystals for optical, opto-electronic, and photonics	Journal of Materials Science: Materials in Electronics	2021	SNIP: 0.681



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	utilities			
26.	Growth, characterizations, and the structural elucidation of diethyl-2-(3-oxoisobenzofuran-1-ylidene) malonate crystalline specimen for dielectric and electronic filters, thermal, optical, mechanical, and biomedical applications using conventional experimental and theoretical practices	Journal of Material Science: Materials in Electronics	2021	SNIP: 2.779
27.	Exploring the chemical fingerprints: Fourier Transform infrared spectroscopy analysis of selected plants used in the treatment of urolithiasis	IJFANS International Journal of Food and Nutritional Sciences	2021	-
28.	Comparative study on the phytochemical analysis and antioxidant assessment of medicinal plants used to treat urolithiasis	IJFANS International Journal of Food and Nutritional Sciences	2021	-
29.	Anti-diabetic Activities of ZnO doped with Ce (5%) Nanoparticles	Materials Today: Proceedings	2020	SNIP: 0.576
30.	Anti diabetic (AD), stiffness and hardness studies of 2-[4-(Trifluoromethyl) phenyl]-1H-benzimidazole crystals - (TFMPHB) macro and nano crystal	Materials Today: Proceedings	2020	SNIP: 0.576
31.	Anti-diabetic (AD) and crystal stiffness characterizations of NaBr-added L-alanine (LANB) – A comparative analysis in macro and nano scale crystals	Materials Today: Proceedings	2020	SNIP: 0.576
32.	Anti diabetic (AD) studies of picolinium maleate nano crystals	Materials Today: Proceedings	2020	SNIP: 0.576
33.	Anti-inflammatory (AI) and crystalline hardness characterisations of 4-(4-chlorophenyl)-7,7-dimethyl-7,8-dihydro-4h-1-benzopyran-2,5(3h,6h)-dione-(CPDMDHHPHHD) – Comparative analysis of macro and nano scales crystals	Materials Today: Proceedings	2020	SNIP: 0.576
34.	Anti-diabetic (AD) activities of ZnO doped with Ce (7 at%) nano particles (NP)	Materials Today: Proceedings	2020	SNIP: 0.576
35.	Study on the Effect of Fertilizers and Hydrogen Peroxide on Soil Property, Growth, Yield and Nutrient Content of Abelmoschus Esculentus (L.) Moench	International Journal of Agriculture Research System	2020	-
36.	Efficacy of Organic and Inorganic Fertilizers in the Growth and Yield of Radish (<i>Raphanus Sativus</i> L)	Journal of Critical Reviews	2020	-



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(b) National

S. No.	Title of the Journal	Name of the Journal	Year	Impact Factor (if any)
37.	Antibacterial studies on <i>Hypnea musciformis</i> against selected bacterial pathogens	Indian Hydrobiology	2021	-
38.	Antifungal studies on <i>Hypnea musciformis</i> against medically and agriculturally important fungi	Indian Hydrobiology	2021	-

15. Specialization of the Research Centre

1. Algal Biotechnology
2. Phytochemistry
3. Molecular Biology
4. Bionanotechnology
5. Bioremediation
6. Ecological Studies (Field and Lab)
7. Biodiversity and Conservation

16. List of Supervisors at present

Name of the registered supervisors	Scholars completed Ph.D. under them	Title of the thesis	Year of completion
Dr. A. Arockia Jenecius Alphonse MSU/RES/INT/GUIDESHIP/R5/2017	-		
Dr. G. Flora MSU/RES/INT/GUIDESHIP/R5/2017	-		
Dr. S. Beulah Jerlin MSU/RES/INT/GUIDESHIP/R5/2017	-		
Dr. R. Mary Santhi MSU/RES/Ph.D GUIDESHIP/R2/2023	-		


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



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TIRUNELVELI-627 012, TAMIL NADU, INDIA
(REACCREDITED WITH B GRADE BY NAAC)

Dr. A. JOHN DE BRITTO
REGISTRAR

Ref. No.MSU/RES/INT/GUIDESHIP/R5/2017.

21.09.2017.

To

Dr. A. Arockia Jenecius Alphonse
Assistant Professor of Botany
St. Mary's College
Thoothukudi.

Sir / Madam

Sub: Recognition as an approved Guide – intimation – reg.

Ref: Orders of the Vice – Chancellor dated 13.09.2017 /

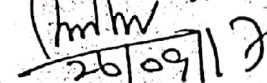
I am by direction, to inform that Guideship has been granted in the Subject of BOTANY and it is tenable only for the period of your service within the Manonmaniam Sundaranar University jurisdiction.

The maximum number of Ph.D. Scholars under your guidance is 4 (four) only .

This is for information and adherence.

Kindly acknowledge the receipt of this communication.

Yours faithfully,

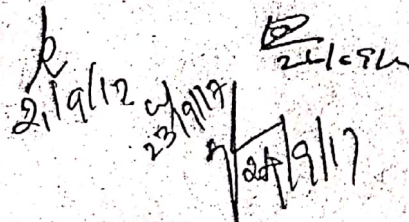

20/09/17
REGISTRAR

Copy to :

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St. Mary's College
Thoothukudi


Principal

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


21/9/17
23/9/17
24/9/17



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Details of the Supervisor

1. Name : Dr. A. Arockia Jenecius Alphonse
2. Designation : Associate Professor & Head of Botany
3. Address : Servite Convent, 104, North Beach Road, St. Mary's College (Autonomous), Thoothukudi
4. Phone number : 7598475930, 9790896142
5. Mail ID : jenosntg@gmail.com
6. Permission letters of the supervisor (Guide ship approval letter)

7. PUBLICATIONS

(a) BOOKS PUBLISHED

Title	Name of the Publisher	Page	Rate	Year	Book No.
Biochemistry Volume II	CBA Publisher	170	150	2022	978-93-80430-81-2
Biochemistry Volume I	CBA Publisher	260	150	2020	978-93-80430-55-3

(b) ARTICLES PUBLISHED

Title	Periodicity of the article	Name of the Journal	Page	Year	Journal No. ISSN	Impact factor No.
Phytochemical Constituency Profiling and Antimicrobial Activity of <i>Haloplegma duperreyi</i> From the Mandapam, Rameshwaram Coast, Tamil Nadu	Bimonthly	Indian Journal of Natural Sciences	63506 - 63514	2023	0976 - 0997	2.452
Biosynthesis, characterization and corrosion inhibitory	-	European Chemical Bulletin	10451 - 10461	2023	2063 - 5346	3.71



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efficiency of silver nanoparticles using ascidians						
Identification and quantification of potential bioactive compounds from seaweed of <i>Champia compressa</i>	Monthly	International journal of Pharmaceutical Sciences and Research	774-781	2023	2320 - 5148	-
Impact of freezing on the Nutritive Content of <i>Penaeus indicus</i> in Thoothukudi Coastal Region of Tamil Nadu, India	Monthly	Bulletin of environment, Pharmacology and Life Sciences	220-223	2022	2277 - 1808	-
Pleurotus cultivation: a sustainable way to utilize agrowaste	Quarterly	Acta agriculturae Slovenica	1-7	2022	1854 - 1941	0.714 (2023)
Anti-diabetic, Anti-oxidant, Fluorescence and Filter Characterizations of Bis glycine Lithium Bromide Monohydrate (BGLBMH) Macro and Nano-scaled Crystals	Monthly	International Journal of Current Research and Review	35 - 39	2021	0975 - 5241	1.628
Anti-diabetic Activities of ZnO doped with Ce (5%) Nanoparticles	Monthly	Materials Today: Proceedings	3056 - 3057	2020	2214 - 7853	3.2
Antidiabetic (AD) studies of bis-glycine hydro bromide (45 nm) Nano Crystals	Monthly	Materials Today: Proceedings	3201 - 3202	2020	2214 - 7853	3.2
Efficacy of Organic and Inorganic Fertilizers in the Growth and Yield of Radish (<i>Raphanus sativus</i> L.)	Bimonthly	Journal of Critical Reviews	3011 - 3022	2020	2394 - 5125	1.091 (2017)
Evaluation of antifertility potential of ethanolic extract of <i>Bacolepis nervosa</i> in male albino rats	Quarterly	Asian Journal of Pharmaceutical and Health Sciences	1675 - 1682	2017	2231 - 234X	0.40
Pharmacognostic and phytochemical evaluation of <i>Bacolepis nervosa</i> stem and leaf.	Bimonthly	International Journal Pharmaceutical Sciences Review and Research	197 - 206	2017	0976 – 044X	0.65 (2015)
Hepatoprotective activity of ethanol extract of <i>Bacolepis Nervosa</i> against carbon tetrachloride induced	Quarterly	International Journal of Applied Biology and Pharmaceutical Technology	63-72	2017	0976 - 4550	3.0



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hepatotoxicity in albino rats						
Antidiabetic activity of <i>Bacolepis nervosa</i> (Wight and Arn.) Decne. Ex moq. extract on alloxan induced diabetic rats.	Bimonthly	International Journal of Pharmacy and Pharmaceutical Sciences	320 – 326	2016	0975 – 1491	0.65 (2015)
Bio-efficiency of three seaweeds collected from the Manapad coast, India.	Biannual	Marian Quest – A Bi-annual Multidisciplinary Research Journal	34-47	2014	2249-7145	--
GC-MS analysis of bioactive components on the stem extract of <i>Bacolepis nervosa</i> (Wight & Arn.) Decne. ex Moq. (Periplocaceae).	Monthly	World Journal of Pharmacy and Pharmaceutical Sciences	1044 - 1059	2014	2278 – 4357	7.632
<i>In vitro</i> antioxidant potential of leaf extracts of the endemic plant <i>Bacolepis nervosa</i> (Wight & Arn.) Decne. ex Moq. (Periplocaceae)	Quarterly	Journal of Advanced Pharmacy Education & Research	206 - 215	2014	2249 - 3379	0.4
Anti-inflammatory activity of ethanol extract of <i>Bacolepis nervosa</i> (Wight & Arn.) Decne. ex Moq. using carrageenan induced paw edema in albino rats.	Monthly	World Journal Pharmaceutical Research	1384 - 1391	2014	2277 – 7105	5.045
Evaluation of anticancer potential of <i>Bacolepis nervosa</i> (Wight & Arn.) Decne. ex Moq. against Ehrlich Ascites Carcinoma induced cancer in Swiss Albino Mice.	Bimonthly	International Journal Pharmaceutical Sciences Review and Research	292 - 297	2014	0976 – 044X	0.65 (2016)
<i>In vitro</i> antioxidant activity of <i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson var. <i>campanulatus</i> (Blume ex. Decne) Sivadasan	Bimonthly	International Journal of Pharmaceutical Research and Bio-Science	211 - 222	2013	2277 - 8713	6.93 (SJIF)
<i>In vitro</i> Antioxidant Activity of <i>Sauropous bacciformis</i> Blume (Euphorbiaceae).	Monthly	International Research Journal of Pharmacy	256 - 259	2012	2230 - 8407	0.765
GC-MS determination of bioactive components of	Quarterly	Journal of Current Chemical and	347 -	2012	2277 - 2871	1.187



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<i>Sauropus bacciformis</i> Blume (Euphorbiaceae).		Pharmaceutical Sciences	358			
Studies on medicinal potentials of <i>Sauropus androgynous</i> (L.) Merr. (Euphorbiaceae)	Quarterly	Journal of Basic and Applied Biology	70 – 73	2012	0973 - 8207	--
Effect of Acibenzolar – S – methyl (ASM) pre – treatment in inducing resistance against <i>Pythium amphanitermatum</i> infection in <i>Curcuma longa</i> .	Monthly	Crop Protection	1 - 9	2010	1873 - 6904	2.8

8. PARTICIPATION DETAILS (Conference/Seminar/Workshop/Symposium)

Title/ Institution	Conference/ Seminar/ Workshop/ Symposium	Level: State/ National/ International	Status of Participation Presentation/ Participant	Year
Navigating Consultancy, filing Patent and Designing Research Article: Insights and Strategies	Seminar	National	Participated	20.01.2024
Avoiding predatory publishing: Guidelines for choosing journals in the Digital Age	Workshop	-	Participated	11.12.2023
Medically Important Bacteria-Phase I	FDP	International	Participated	09.10.2023 to 08.11.2023
Faculty Excellence in Teaching and Scholarship (FETS)	FDP	International	Participated	23.10.2023 to 24.10.2023
Innovations, Biobusiness and startup ecosystem in algal Biotechnology – A Carbon Neutral Initiative	Industry Conclave	-	Participated	06.10.2023
Microbiology laboratory techniques (phase I)	FDP	International	Participated	04.09.2023 to 03.10.2023
Recent Trends in the Industrial Engineering and Management (RTIEM-2021)	FDP		Participated	26.07.2021 to 30.07.2021
Recent Advances of Pest Management in Agriculture	FDP		Participated	08.07.2021 to 13.07.2021
Innovation and IPR	FDP	National	Participated	21.06.2021 to 27.06.2021
The Fascinating World of crystals	Webinar		Participated	24.06.2021
Graphene: Chemistry, Biology, Physics and Beyond	Webinar		Participated	21.06.2021



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Data Analyses using MS-Excel	Workshop	State	Participated	17.06.2021
Digital Skills for smart teaching	FDP webinar		Participated	14.06.2021 to 19.06.2021
Graphics design for teachers	Short term course	National	Participated	26.05.2021 to 31.05.2021
Applications of DNA Barcodes in Systematics and Biogeography – a Phyloinformatics approach	Summer internship		Participated	14.05.2021 to 31.05.2021
Entrepreneurship – a Ubiquitous Impact on Science Graduates (EAUISG)	Webinar	International	Participated	24.04.2021
Public financial management system (PFMS)	Workshop	State	Participated	04.02.2021 to 05.02.2021
Multidisciplinary Research and Innovation	Conference	International	Presented	03.09.2020 to 09.09.2020
Issues and Prospects of National Education Policy	Webinar	National	Participated	21.08.2020
Technological Innovation and Academia Open Industry Collaboration Under Self Reliant India	Webinar	National	Participated	23.07.2020
How to Conduct Online Assessment, Evaluation, Publishing for Units Test and Term Exams	Session		Participated	11.07.2020
COVID – A Hidden War in Open Field	Webinar	National	Participated	29.06.2020
Our Cosmic Consciousness	Webinar	National	Participated	29.06.2020
Evolution of Treatment: An Overview – Cancer and Covid - 19	Webinar	International	Participated	27.06.2020
ICT Tools for Smart Teaching	Workshop	National	Participated	18.06.2020 to 20.06.2020
Research Proposal Writing	Webinar		Participated	17.06.2020
Accelerating Education 4.0 using ICT Tools – Post COVID Paradigm	Webinar	International	Participated	17.06.2020
Techniques in Intensive Production of Marine Copepods	Virtual Training Lecture		Participated	15.06.2020 to 17.06.2020
Design of Flexible Pavement Using IRC	Webinar	National	Participated	14.06.2020
Biomedical Technologies & Product Development Cycle Challenges and Opportunities	Webinar		Participated	13.06.2020
The Bridges	Webinar	National	Participated	13.06.2020



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Stem Cell Therapy in COVID 19: Present or Future	Webinar		Participated	08.06.2020
Open Source Tools for Research	FDP		Participated	08.06.2020 to 14.06.2020
Effective usage of ICT Tools for Higher Education	Webinar	International	Participated	03.06.2020
Piezoelectric Based Energy Harvesting Techniques	Webinar		Participated	03.06.2020
Introduction to Geographic Information System (GIS)	Webinar	National	Participated	02.06.2020
Transforming Education: The Google Classroom Way	FDP		Participated	01.06.2020 to 07.06.2020

9. ORGANIZED

Title	Conference/ Seminar	Level: State/ National/ International	Budget	Proceedings
Scientific Publication and Evaluation: Reference tools, Citation Analysis and Plagiarism	Seminar	National	42014	
Innovation in methodology – A path for outcome-based research	Seminar	National	30290	
Digital image processing using MATLAB	Workshop	College	29966	
Interface between history and literature				
Web tools for business				
Google Tools for science Aspirants				
Writing research proposals for funded projects	Workshop	National	29240	
Born to Lead	Workshop	College	13581	
Strategic Human Resource Management	Conference	National	52283	978-93-89146-72-1



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10. PROJECTS UNDERTAKEN

Title of the Project	File No.	Duration	Total Cost	Funding Agency
Studies on the coastal weed <i>Sauropus bacciformis</i> (L) Airyshaw (Euphorbiaceae) Completed	MRP-3445/10	2010-2012	90,000	UGC
Molecular characterization and <i>in vitro</i> propagation of <i>Bacolepis nervosa</i> (Wight & Arn) Decne. ex Moq. (Periplocaceae) Completed	MRP- 5673/15	2015-2017	3,55,000	UGC
Financial support for strengthening of life science and Biotechnology education and training at UG level under star college scheme Completed	102/IFD/SAN/5071/2018-2019	2019-2022	82,00,000	DBT
Financial support for strengthening of life science and Biotechnology education and training at UG level under star college scheme (Ongoing)	102/IFD/SAN/5071/2022-2023	2022 -- 2024	28,00,000	DBT

11. RESEARCHERS:

(a) Ongoing Scholars

Name & Address	Title	Register No. & Date of Commencement	Full Time / Part Time	Fellowship	Completed
J. N. Monisha	Marine Microalgae: An alternative raw material for biofuel production	21212212262007 & 02.02.2022	Full Time	-	-
M. Shantha	Biopotential exploration of selected Rhodophyceae members	19222212272018 & 30.08.2019	Part Time	-	-



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TIRUNELVELI-627 012, TAMIL NADU, INDIA
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Dr. A. JOHN DE BRITTO
REGISTRAR

Ref. No. MSU/RES/INT/GUIDESHIP/R5/2017.

21.09.2017.

To

Dr. G. Flora
Assistant Professor of Botany
St. Mary's College
Thoothukudi.

Sir / Madam

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[Signature]
26/09/17
REGISTRAR

Copy to :

The Principal /
St. Mary's College
Thoothukudi

[Signature] 21/9/17
[Signature] 23/9/17
[Signature] 26/09/17
[Signature] 25/9/17



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ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMIL NADU, INDIA



Details of the Supervisor

1. Name : Dr. G. Flora
2. Designation : Assistant Professor
3. Address : Department of Botany, St. Mary's College (Autonomous), Thoothukudi-2
4. Phone number : 9976940601
5. Mail ID : chandranflora@gmail.com
6. Permission letters of the supervisor (Guideship approval letter)

Publications

a. Books Published: - Nil

b. Articles / Book Chapter Published

Title	Periodicity of the article	Name of the Journal	Page	year	Journal No. ISBN/ISSN/ Impact factor No.
Recent advances in remediation strategies for mitigating the impacts of emerging pollutants in water and ensuring environmental sustainability	Monthly	Journal of Environmental Management	119674	2024	ISSN: 0301-4797 Impact factor -8.7
Biochemical engineering for elemental sulfur from flue gases through multi-enzymatic based approaches–A review	Monthly	Science of The Total Environment	169857	2024	e- ISSN: 1879-1026 P- ISSN: 0048-9697 Impact factor -9.8
Biofuels an alternative to traditional fossil fuels: A comprehensive review	Two months once	Sustainable Energy Technologies and Assessments	103503	2023	e-ISSN: 2213-1396 L- ISSN: 2213-1388 Impact factor-8



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Assessing the bioactive potential of low-cost textile dyes extracted from brown seaweeds and their dyeing properties	Monthly	Environmental Science and Pollution Research	125165-125175	2023	e-ISSN 1614-7499 Impact factor 5.8
Case Biorefinery Studies in Diatom		Diatoms Biotechnology	100	2023	
Effect of System of Rice Intensification practices in increasing the yield of traditional varieties of rice		International Journal of Environment and Climate Change	1175-1180	2023	ISSN: 2581-8627 NAAS Score: 5.16
Current research trends on cosmetic microplastic pollution and its impacts on the ecosystem: A review	Monthly	Environmental Pollution	121106	2023	P- ISSN: 0269-7491 e-ISSN: 1873-6424 Impact factor-8.9
Technological advances in the production of carotenoids and their applications–A critical review	Monthly	Bioresource technology	128215	2023	P-ISSN: 0960-8524 e- ISSN: 1873-2976 Impact factor-11.4
Anti-Inflammatory activity of LPAM nano crystals and Hirshfeld impact on crystals		AIP Conference Proceedings		2022	e-ISSN 1551-7616 P- ISSN 0094-243X
Structural explication by software and anti-diabetic effectiveness of L-phenylalaninium maleate (LPAM) macro and nano crystalline samples		AIP Conference Proceedings	100031	2022	e-ISSN 1551-7616 P- ISSN 0094-243X
Density functional theory (DFT) studies for quadrupole and octapole moments, field analysis by theoretical interactions by softwares and anti-diabetic (AD), anti-oxidant (AO) bio-pharma properties of the DLA crystals		AIP Conference Proceedings	100022	2022	e-ISSN 1551-7616 P- ISSN 0094-243X
Growth, computation-structure-elucidation, anti-diabetic use of 1, 4-Bis (2-Nitrobenzyl) piperazine (BNBPP) macro, nano crystals		AIP Conference Proceedings	-	2022	e-ISSN 1551-7616 P- ISSN 0094-243X



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Bio utility and structural enrichment of diethylammonium diethyldithiocarbamate (DADDTC) macro and nano scaled crystals		AIP Conference Proceedings	-	2022	e-ISSN 1551-7616 P- ISSN 0094-243X
Advanced technologies on the sustainable approaches for conversion of organic waste to valuable bioproducts: Emerging circular bioeconomy perspective	Monthly	Fuel	124313	2022	Impact Factor-7.4 P- ISSN: 0016-2361 e-ISSN: 1873-7153
Nano, Peptide Link, Pharma Impact and Electron Density of AMPHB Macro, Nano Crystalline Samples		Nanovaccinology as Targeted Therapeutics	213-225	2022	P- ISBN:9781119857341
Antidiabetic, Anti-Oxidant, Computational, Filter, and Tribological Characterizations of Bis Glycine Lithium Bromide Monohydrate Nano (32 nm) Scaled Crystals		Nanovaccinology as Targeted Therapeutics	157-168	2022	P- ISBN:9781119857341
Biological, Electronic-Filter, Influx and Theoretical Practicalities of 2-Chloro-6-Nitroaniline (2C6NA) Crystals for Biomedical and Microelectronics Tasks		Nanovaccinology as Targeted Therapeutics	145-155	2022	P- ISBN:9781119857341
Biomedical and Electronic Tune-Ups of 2C4NA Nanocrystalline Sample		Nanovaccinology as Targeted Therapeutics	131-143	2022	P- ISBN:9781119857341
Biomedical, Tribological, and Electronic Functionalities of Silver Nanoparticles		Nanovaccinology as Targeted Therapeutics	257-265	2022	P- ISBN:9781119857341
Super Lattice, Computational Interactions and Bio-Uses of CPDMDP Crystals		Nanovaccinology as Targeted Therapeutics	227-242	2022	P- ISBN:9781119857341
Biocurative, Tribological, Electro-Functionalities of ZnO-MIZN Nanoparticles		Nanovaccinology as Targeted Therapeutics,	183-194	2022	P- ISBN:9781119857341
Biological Effect Nanotubular, Vanderwall's Impact, of 4-Methyl-2-Nitroaniline (4M2NA) Nanocrystals		Nanovaccinology as Targeted Therapeutics	243-256	2022	P- ISBN:9781119857341



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Device Utility, Energy, and Bioutility of N2MNM4MBH Macro, Nano Models		Nanovaccinology as Targeted Therapeutics	169-181	2022	P- ISBN:978111 9857341
Nanotubular Device Effect, Super Cell Effectiveness, Hirshfeld Energy Analysis and Biomedicinal Efficacy of 2-Fluoro-5-Nitro-Aniline (2F5NA) Crystals		Nanovaccinology as Targeted Therapeutics	195-212	2022	P- ISBN:978111 9857341
Biomedical and Electronic Tune-Ups of 2C4NA Nanocrystalline Sample		Nanovaccinology as Targeted Therapeutics	131	2022	P- ISBN:978111 9857341
Antidiabetic, Anti-Oxidant, Computational, filter and tribiological characterization of bis glycine lithium bromide monohydrate nano (32nm) scaled crystals		Nanovaccinology as Targeted Therapeutics	157	2022	P- ISBN:978111 9857341
Synthesis and diffraction, computational exposure, hardness and interaction studies of EN2MNYM3NA crystalline material for mechanized, electronic and bio utilities	Monthly	Materials Today: Proceedings	1235-1240	2022	ISSN: 2214-7853 Source Normalized Impact per Paper (SNIP): 0.576
Screening and Evaluation of Biodegradability of Polythene by Soil Bacteria	Bi-monthly	Indian Journal of Natural Sciences	34338-34343	2021	ISSN: 0976-0997
Growth, characterizations, and the structural elucidation of diethyl-2-(3-oxoisobutyl-1, 3-dihydrobenzofuran-1-ylidene) malonate crystalline specimen for dielectric and electronic filters, thermal, optical, mechanical, and biomedical applications using conventional experimental and theoretical practices		Journal of Materials Science: Materials in Electronics	22822-22839	2021	Impact factor- 2.8 E-ISSN 1573-482X P- ISSN 0957-4522
Synthesis, growth, XRD, NLO, CHNSO, computational-structural, dielectric, photoconductivity, hardness and biostudies of diethyl 2-amino-5-{4-[bis (4-methyl phenyl) amino] benzamido} thiophene-3, 4-dicarboxylate (DABMPABTD) macro-, nano crystals for device fabrication, pharma, electronic uses		Journal of Materials Science: Materials in Electronics	15498-15508	2021	Impact factor- 2.8 E-ISSN 1573-482X P- ISSN 0957-4522



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Synthesis, growth, XRD, NLO, CHNSO, structure by theoretical approach, dielectric, absorbance, photoconductivity and bio studies of 4-(4-Acetyl-5-Methyl-1H-1, 2, 3-Triazol-1-yl) Benzonitrile crystals for optical, opto-electronic, and photonics utilities		Journal of Materials Science: Materials in Electronics	13850-13858	2021	Impact factor-2.8 E-ISSN 1573-482X P- ISSN 0957-4522
Extraction of Silver Nanoparticles (Ag-NPs) by Green Synthesis from Aqueous Extract of Seaweeds and their consequences on HeLa Cell Line and their utility on soil by spectroscopic tools		Nanotechnology for Advances in Medical Microbiology	119-138	2021	eBook ISBN-978-981-15-9916-3
Anti diabetic (AD), stiffness and hardness studies of 2-[4-(Trifluoromethyl) phenyl]-1H-benzimidazole crystals - (TFMPHB) macro and nano crystal	Monthly	Materials Today: Proceedings	4233-4236	2020	ISSN: 2214-7853 Source Normalized Impact per Paper (SNIP): 0.576
Anti-diabetic (AD) and crystal stiffness characterizations of NaBr-added L-alanine (LANB) – A comparative analysis in macro and nano scale crystals	Monthly	Materials Today: Proceedings	3937-3941	2020	ISSN: 2214-7853 Source Normalized Impact per Paper (SNIP): 0.576
Anti diabetic (AD) studies of picolinium maleate nano crystals	Monthly	Materials Today: Proceedings	3005-3007	2020	ISSN: 2214-7853 Source Normalized Impact per Paper (SNIP): 0.576
Anti-inflammatory (AI) and crystalline hardness characterisations of 4-(4-chlorophenyl)-7,7-dimethyl-7,8-dihydro-4h-1-benzopyran-2,5(3h,6h)-dione- (CPDMDHHPHHD) – Comparative analysis of macro and nano scales crystals	Monthly	Materials Today: Proceedings	3578-3582	2020	ISSN: 2214-7853 Source Normalized Impact per Paper (SNIP): 0.576
Anti-diabetic (AD) activities of ZnO doped with Ce (7 at%) nano particles (NP)	Monthly	Materials Today: Proceedings	3053-3055	2020	ISSN: 2214-7853 Source Normalized Impact per Paper (SNIP): 0.576



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Estimation of Carbon Storage in the Tree Growth of St. Mary's College (Autonomous) Campus, Thoothukudi, Tamilnadu, India	Monthly	Journal of Emerging Technologies and Innovative Research (JETIR)	260-268	2018	eISSN: 2349-5162 Impact factor - 5.87
Clean up Textile Azo Dye Pollution by Using Silver Nanoparticles of Bacteria Isolated From Shrimp Shell Contaminated Soil in Thoothukudi Coast	Monthly	International Journal of Scientific Research in Science and Technology (www.ijrst.com)	12-17	2018	Print ISSN : 2395-6011 UGC Approved Journal No : 64011 Impact factor- 5.3
Effect of Ulva lactuca and Padina tetrastrum concentrate on Growth and yield of Lablab purpureus L.	3 issues from a year	Asian Journal of Biological and Life Sciences	321-328	2017	e-ISSN : 2278-5957 ; p-ISSN : 2278-747X
Synthesis of silver nanoparticles using red algae, characterization and effect on beneficial soil microbes.	3 issues from a year	Asian Journal of Biological and Life Sciences	313-320	2017	e-ISSN : 2278-5957 ; p-ISSN : 2278-747X
Isolation and screening of Azo dye decolorizing bacterial isolates from shrimp shell contaminated soil in thoothukudi coast	Monthly	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	1351-1354	2017	Print ISSN : 2321-9653 Impact factor- 7.4
Green Synthesis and Characterization of silver nanoparticles using aqueous extract of Gracilaria corticata and their effect on growth of beneficial soil microbes and earthworms.	3 issues from a year	Seaweed research and utilization	35-42	2016	ISSN 0971 – 7560
Effect of Ulva lactuca and Padina tetrastrum concentrate on Growth and yield of Momordica charantia.	3 issues from a year	Seaweed research and utilization	118-124	2016	ISSN 0971 – 7560
Activity of seaweed extracts against phytopathogens	3 issues from a year	Seaweed research and utilization	78-90	2013	ISSN 0971 – 7560
Atrazine effect on Photosynthesis of <i>Pistia Stratiotes</i> , L.	3 issues from a year	International Journal of PharmTech Research	800-803	2013	e-ISSN(Online): 2455-9563, ISSN: 0974-4304 Impact factor- .66
Gc-ms analysis of <i>Acanthophora spicifera</i>	3 issues from a year	Int J Pharm Bio Sci	649-653	2013	ISSN 0975-6299 Impact factor- 7.446
Effect of <i>Stoechospermum marginatum</i> (Ag). Kutz extract on	3 issues from a year	African Journal of	3289-3293	2013	ISSN: 1991-637X DOI:



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controlling blast disease in rice caused by <i>Pyricularia oryzae</i> under natural field condition		Agricultural Research			10.5897/AJAR
Study on Antioxidant Potential of Different parts of <i>Martynia annua</i> Linn. – A Road Side Weed	monthly	International Journal of Development Research	051-054	2013	ISSN: 2230-9926 Impact factor- 7.012
<i>Ulothrix flacca</i> concentrate as an alternative source to control early leaf spot disease in groundnut.	2 issues yearly	Marian Quest	66-74	2013	ISSN 2249-7145
Effect of <i>Padina pavonia</i> on soil fertility and biochemical profile of <i>Vigna unguiculata</i> under induced lead stress.	3 issues from a year	Seaweed Res. Utilin.,	129	2013	ISSN 0971 – 7560
Seaweed concentrate as an alternative source to control Tikka disease in groundnut	3 issues from a year	Seaweed Res. Utiln.,	127-131	2012	ISSN 0971 – 7560
Study on the efficacy of <i>Ulva lactuca</i> concentrate in controlling early leaf spot disease in <i>Arachis hypogea</i> under natural field condition	Yearly 2 issue	Marian Quest	135-143	2012	ISSN 2249-7145
An approach towards control of Blast by foliar application of seaweed concentrate	3 issues from a year	Science Research Reporter	213-217	2011	Impact Factor = 2.836 ISSN 2249-7846
Genesis, speciation and heavy metal retention potential and bio availability of soil in mangrove ecosystem, Tuticorin, Tamil Nadu	3 issues from a year	Journal of Basic and Applied Biology	203-208	2011	ISSN 0973 - 8207



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4. Participation Details (Conference/Seminar/Workshop/Symposium)

Title/ Institution	Conference/ Seminar/ Workshop/ Symposium	Level: State/ National/ International	Status of Participation Presentation/ Participant	Year
National symposium on farmer- manufacturer's meet: vision for import to export strategy (FMMVIES-2024) Center of Medicinal Plants Research in Homoeopathy, Emerald, The Nilgiris	Symposium	National	Presentation	2024
Phycoremediation of Non-phthalate pollution with zero waste generation Vishwakarma Institute of Information Technology, Pune - 411048		National	Presentation – Keynote address	2024
International Conference on the Urgency of Sustainable Development: A Bio-Psycho-Social Perspective Department of Psychology, Anugraha Institute of Social Sciences	Conference	Internati onal	Presented	2023
International Seminar on Plant Response to Climate Change Department of Botany & Research Centre, Scott Christian College (Autonomous), Nagercoil	Seminar	Internati onal	Presented	2022
Wonderful World of oceans: Emerging Trends	Seminar	International	Participation	2020



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and Implications. Department of Zoology, St. Mary's College (Autonomous)				
International Conference on Climate Change: Adaptation and Mitigation Finishing School Cell, St. Thomas' College (Autonomous), Thrissur, Kerala, India	Conference	International	Presentation	2020
Training Programme on Identification of Marine Flora with Special Reference to Commercially Important Seaweeds Central Marine Fisheries Research Institute (CMFRI), Thoothukudi`	Workshop		Participation	2019
National Seminar on Innovaons in Plant Science Soil Health And Agriculture Lady doak college, madurai	Seminar	National	Presented	2019
A Two day Training Programme on Bacterial Isolation, Identification and Biofilm Formation Centre for Bioscience Nanoscience Research (CBNR), Coimbatore	Workshop		participated	2019
Seminar on Biodiversity and Climate Change Department of Botany and	Seminar	International	Presentation	2019



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Research Centre in Scott Christian College, Nagercoil, Tamil Nadu				
Training Basic Biotechnology Techniques Karunya University, Coimbatore	Workshop	State	participated	2018
Seminar on Academic and Research Integrity in the Digital World Research Forum and Department of Library, St. Mary's College (Autonomous), Thoothukudi	Seminar	National	participated	2017
International Conference on Pharmaceutical, medical & Environmental health sciences (ICPharME-2017), IRF Conference association with IRAJ Research forum, Bangalore	Conference	International	presented	2017
STEM Teacher Training Workshop on Research – Based Pedagogical Tools, Indian Institute of Science Education and Research, Pune	Workshop	National	participated	2017
International Conference on Advances in Algal Biotechnology, University, Vellore, Tamil Nadu	Conference	International	presented	2016
Training programme of Direct Benefit	Workshop	National	participated	2016



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Transfer (DBT) Scheme -Plan Scheme Monitoring System(CPSMS) Matha Sundari College, New Delhi				
National workshop on Basic statistics using SPSS and Excel (BASSE- 2016) , Sadakathullah Appa College (Autonomous) Palayamkottai	Worksshop	National	participated	2016
Training on Animal Cell Culture and MTT Assay, Centre for Bioscience and Nanoscience Research, Eachnari, Coimbatore	workshop	state	participited	2016
International conference on Advances in Nanomaterials and Nanotechnology, centre for nanoscience and nanotechnology, Jamia Milia Islamia, New Delhi	Conference	International	presented	2016
Training on Nanotechnology, Centre for Bioscience and Nanoscience Research, Eachnari, Coimbatore	workshop	state	participate	2016
INUP Hands- on Training Workshop on “PDMS Microfluids and Micro and Nano Characterization	Workshop	National	participated	2015



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Techniques” Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore				
Reasserting Microbial Biotechnology to Deflate Global Disease Burden- RMBT’15, Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli	Conference	International	participated	2015
National seminar on Bioinformatics, Department of Bioinformatics, School of Life Sciences, Bharathidasan University,Trichy	Seminar	national	participated	2015

5. Organized

Nil

6. Researchers :

a) Ongoing Scholars

Name & Address	Title	Register. No & Date of Commencement	Full Time/ Part Time	Fellowship	Completed
G. Mary Stephy	Identificati on of microplasti cs from environme ntal samples and elucidation of green microalgal potential on non- phthalate	21112212262010 & 13.10.2021	Full Time	Nil	Ongoing



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	pollution				
J. Rathinam	Bioactive potential of selected medicinal plants used against skin diseases	21112212263009 & 07.10.2021	Full Time	Doctoral degree scholarship, Department of Collegiate education, Chennai	Ongoing
J. Shyni	Microalgal diversity and it's bio-prospecting of microalgal strains from Muthupet mangroves	23122212262011 & 09.06.2023	Part Time	Nil	Ongoing



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(REACCREDITED WITH B GRADE BY NAAC)

Dr. A. JOHN DE BRITTO
REGISTRAR

21.09.2017.

Ref. No.MSU/RES/INT/GUIDESHIP/R5/2017.

To

Dr. S. Beulah Jerlin /
Assistant Professor of Botany
St. Mary's College
Thoothukudi.

Sir / Madam

Sub: Recognition as an approved Guide – intimation – reg.

Ref: Orders of the Vice – Chancellor dated 13.09.2017 /

I am by direction, to inform that Guideship has been granted in the Subject of **BOTANY** and it is tenable only for the period of your service within the Manonmaniam Sundaranar University jurisdiction.

The maximum number of Ph.D. Scholars under your guidance is 4 (four) only .

This is for information and adherence.

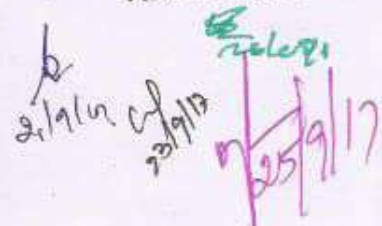
Kindly acknowledge the receipt of this communication.

Yours faithfully,


26/09/17
REGISTRAR

Copy to :

The Principal /
St. Mary's College
Thoothukudi


21/9/17
23/9/17
25/9/17



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Details of the Supervisor

1. Name : Dr. S. Beulah Jerlin
2. Designation : Assistant Professor of Botany
3. Address : St. Mary's College (Autonomous), Thoothukudi
4. Phone number : 9443231548
5. Mail ID : beulah.jerlin@gmail.com
6. Permission letters of the supervisor (Guide ship approval letter)

Publications

a. Books Published

Title	Name of the Journal	Page	Rate	year	Book No.
Nil	Nil				

b. Articles Published

Title	Periodicity of the article	Name of the Journal	Page	year	Journal No. ISBN/ISSN/ Impact factor No.
Fingi for Financial Freedom: Unvelling Opportunities in Mushroom Cultivation for Women in Tamil Nadu.		Proceeding – Interdisciplinary National Seminar being organized by Department of Economics and women Cell, RKSD College, Kaithal (Haryana)		2023	



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Antibacterial and Antioxidant activity of selected plants used in the treatment of Urolithiasis.		Proceeding on International Seminar on Plant Response in Climate Change		2022	
Morphological, Phytochemical and Fourier-transform infrared spectroscopy (FTIR) spectroscopic analysis of selected species of Portulacaceae-A Study	Monthly	International Journal of Current Research and Review		2022	
Preliminary phytochemical screening and pharmacognostic studies on leaves of selected weeds		SMC Science Updates Proceeding of UG Project under DBT-STAR College scheme	34-54	2021	ISBN-978-93-80430-59-1



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Study on the Effect of Fertilizers and Hydrogen Peroxide on Soil Property, Growth, Yield and Nutrient Content of <i>Abelmoschus Esculentus</i> (L.) Moench	Quartely	International Journal of Agriculture Research System	77-84	2020	ISSN Online: 2580-6815 ISSN Print:2337-9782
Effect of Seaweed liquid fertilizer on the germination and growth of Radish (<i>Raphanus sativus</i> .L)		Proceedings of National Conference on “Emerging Trends In Algae”		2019	
Effect of Stone Crushers Dust on Chlorophyll Content of Some Medicinally Valuable Plants from Sri Moolakkarai Village of Thoothukudi District	Special Issue	International Journal of Recent Research Aspects	495-498	2018	ISSN – 2349-7688
Zinc solubilizing bacteria from rhizospheric soil of mangroves.	Quartely	International Journal of Microbiology and Biotechnology	148-15	2017	ISSN Print 2578-9686 ISSN online 2578-9686
Biosynthesis of silver nanoparticles from the mangrove avicennia marina and its applications	Monthly	International Journal of Development Research	11 Pages	2017	ISSN:2230-9926



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4. Participation Details (Conference/Seminar/Workshop/Symposium)

Title/ Institution	Conference/ Seminar/ Workshop/ Symposium	Level: State/ National/ International	Status of Participation Presentation/ Participator	Year
A Webinar on Plagiarism: Ways and Means to Curb the Menace in AI World	webinar	National	Participated	13.03.2024
Workshop On “Chat GPT and other Artificial Intelligence(AI) Tools for Classroom Teaching and Research”	Workshop	National	Participated	07.09.2023
Understanding Ecosystem for Health abd Wellbeing. A programme of NCSTC. Govt. of India. New Delhi			Evaluator	10.12 2022
Understanding Ecosystem for Health abd Wellbeing. A programme of NCSTC. Govt. of India. New Delhi			Evaluator	26.11.2022
“NAAC Accreditation process: Preparation & Stakeholderds feedback”	Seminar	National	Participated	12.11.2022
MULTILINGUAL THIRUKKURAL WORLD RECORD PROGRAMME	World Record Programme		Participated	10.10.2022
“The Role of IQAC in Quality Sustenance and Quality Enhancement in the Context of Revised Assessment and	Conference	National	Participated	15.09.2022 & 16.09.2022



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Accreditation Framework (RAAF) in Higher Education Institution (HEI)''				
“NEP 2020 and Indian Knowledge Tradition: Changing Role of Teachers”	Workshop	National	Participated	08.09.2022
“NEP 2020 and Indian Knowledge Tradition: Changing Role of Teachers”	Workshop	National	Participated	06.09.2022
Biotechnology Today and Tomorrow: Innovations and Implications	FDP	National	Participated	01.09.2022 – 05.09.2022
Emerging Trends in Microbial Technology	Seminar	National	Participated	08.09.2022
“STARTUP COMPANY – IT’S LEGAL ISSUES AND ETHICS	Seminar	National	Participated	30.08.2022
International webinar on climate change and future challenges	webinar	International	Participated	03.03.2022 – 04.03.2022
Importance of IP in Scientific Research – An Overview	webinar	International	Participated	01.03.2022
Intellectual Property Rights	FDP	FDP		21.02.2022- 25.02.2022
Micro algal Technology	webinar	- Workshop	Participated	16.02.2022 – 18.02.2022
Wetland Conservation	webinar	International Webinar	Participated	05.02.2022
“Strengthening Your Understanding of Research Journals” (Reading,	webinar	International	Participated	10-07-2021



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Referencing and Publishing)"				
International webinar series on Skill Requisites for a Successful Career	webinar	International	Participated	24-06-2021 to 30-06-2021
State level Webinar on Delicious and Medicinal Mushroom Culture Techniques, Lab to Farm Approach	webinar	State	Participated	28-06-2021
National Webinar On Mucormycosis And Post Covid Recovery: Effects, Complications And Solutions	webinar	National	Participated	18-06-2021
National Level Webinar On "Plant Metabolic Engineering".	webinar		Participated	15-06-2021
International Faculty Development Programme on Challenges in Energy Management for Smart Cities (CEMSC)	FDP	FDP	Participated	07-06-2021 to 11-06-2021
Webinar on Reimagine, Recreate and Restore the Environment, conducted	webinar		Participated	05-06-2021
Faculty Training Programme on Computational Biology	FTP	FTP	Participated	06-05-2021 to 11-05-2021
International E-Conference on Recent Trends in Science and Technology	Conference	International	Participated	29-04-2021 & 30-04-2021



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National Webinar on Technological Advancements in Science (NWTAS 2021)	webinar	National	Participated	16-04-2021 & 17-04-2021
“ How to ace your summer internship”	Internship	Career Talk	Conducted	26-03-2021
“ Theory Building Research”	Webinar	International	Participated	12-03-2021
Department of Library St. Mary's College (Autonomous) Thoothukudi	National webinar on Academic visibility in the digital world	National	Participated	12-02-2021
Department of Botany St. Mary's College (Autonomous) Thoothukudi	International Webinar on Marine Biology	International	Participated	11-08-2020
Karunya Deemed University Coimbatore	National Webinar on Forensic Science	National	Participated	08-08-2020
Department of Botany St. Mary's College (Autonomous) Thoothukudi	Biotechnology: A sustainable energy solution	Local	Participated	07-08-2020
ADMS, Microsoft Partner master Soft	How to conduct online Assesment Evaluation: Publishing for units Test and Term Exams	State	Participated	11-07-2020
St.Joseph”s College (Autonomous) Tiruchirappalli-620001	Online Faculty Development Programme Inclusive Procedure and Process in Assessment and	National	Participated	30.06.2020 To 04.06.2020



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	Accreditation by NAAC.			
PG and Research Department of Botany V.O. Chidambaram College, Thoothikudi	Influence of Climate Change on Biodiversity Resources	Local	Participated	29.06.2020
Annamalai University In Collaboration With ELSEVIER	Webinar on Basic Author Workshop Research Article writing and Reference Management Using Mendeley	National	Participated	22.06.2020
Under UGC Scheme, STRIDE V.O. Chidambaram College, Thoothikudi Component-1	Research Capacity building Three day Faculty Development Programme	Local	Participated	15.06.2020 To 17.06.2020
PG and Research Department of Botany St.Mary's College (Autonomous), Thoothukudi.	A Oneday Webinar on Biodiversity – Urgent and Existential concern	Local	Participated	10.06.2020
Department of Botany Periyar University Constituent College Harur	Natural and health Management	National	Participated	10.06.2020 To 16.06.2020
PG and Research Department of Botany V.O. Chidambaram College, Thoothikudi	Biodiversity Conservation with special reference to AgroBiodiversity	Local	Participated	04.06.2020
PG and Research Department of Botany V.O. Chidambaram College,	Bioprospecting of Medicinal Plants Challenges and Opportunities	Local	Participated	03.06.2020



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Thoothikudi				
Servite Arts and Science College for Women T. Idaiyapatti. Thogamalai.	International Webinar on Effective usage of ICT Tools for Higher education	International	Participated	03.06.2020
IQAC St.Mary's College (Autonomous), Thoothukudi.	Invisible Scholars: Students with learning Disabilities and Identification of students with learning disabilities.	National	Participated	02.06.2020
PG and Research Department of Botany St.Mary's College (Autonomous), Thoothukudi.	A Two day Webinar on Massbauer Spectroscopy Elucidation of Magnetic Compounds in Biological System	Local	Participated	02..06.2020 & 03.-6.2020
Godavari Institute of Engineering and Technology (A) Rajamahendravaram. AndhraPradesh.	Cisco Webex Meeting " FDP on Capacity Building for Teachers during & Post Covid-19"	National	Participated	28.052020 29.05.2020
V.O. Chidambaram College, Thoothikudi	Webinar on" Scope for the Utilization of Herbal Medicines for Human Health in COVID -19 like Scenario"	Local	Participated	29.05.2020



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Srinivasan College of Arts & Science, (Affiliated to Bharathidasan University, Trichy) Perambalur - 621212	Three Days online workshop on Academic Process, Measures and Metrics for NAAC Accreditation In Collaboration with Integrated Intelligent Research (IIR)	National	Participated	25.05.2020 27.05.2020
V.O. Chidambaram College, Thoothikudi	Webinar on "Antiviral marine macroalgae sulfated polysaccharides to boost Immunity as well as active against respiratory infections"	Local	Participated	27.05.2020
JP College of Arts and Science, Ayikudi, Tenkasi. Associated with Audacious Drems foundation.	Research Proposal for UGC Stride Projects: Preparation and submission Protpcol.	National	Participated	27.05.2020
V.O. Chidambaram College, Thoothikudi	Webinar on "Influence of Climate Change on Biodiversity Resources"	Local	Participated	26.05.2020
ICT Academy	Sky campus – Super Session on Change is the Essence of Life	National	Participated	25.05.2020



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V.O. Chidambaram College, Thoothikudi.	Webinar on “Application of molecular Markers in Plant Systematics”	Local	Participated	23.05.2020
St. Mary’s College (Autonomous), Thoothukudi & Annammal College of Education for Women Thoothukudi	Webinar on “Teacher Resilience: The Blueprint for Efficiency during Uncertainty”	Local	Participated	23.05.2020
V.O. Chidambaram College, Thoothikudi.	Webinar on “An Insight into NAAC RAF”	Local	Participated	22.05.2020
Springer Nature	Online Work Shop on Scientific writings for Journals	National	Participated	15.05.2020
Nirmala college (autonomous) Coimbatore	“Plant molecular biology in Space”	State	Participated	14.05.2020
St. Mary’s College (Autonomous), Thoothukudi	Online workshop on “Mental Health & Psychosocial Consideration during Lockdown”	Online workshop	Participated	13.05.2020& 14.05.2020
Sri Krishna College of Technology, Coimbatore	Corono Awerness Quize - 2020	State	Participated	29.04.2020
St. Mary’s College (Autonomous), Thoothukudi	One Week Capacity Building workshopmon e – content development	Local	Participated	18.02.2020- 22.02.2020
St.Xaiver’s College, (Autonomous)	National Conference on “	National	Presented	28.11.2019& 29.11.2019



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Palayamcottai, Tirunelveli District, Tamilnadu	Emerging Trends In Algae”			
St. Mary’s College (Autonomous), Thoothukudi	National Conference “Challenges and Provisions in Stem Cells and Cancer Research”	National	Participated	16.09.2019
St. Mary’s College (Autonomous), Thoothukudi	National workshop on “Writing Research Proposal for Funded Projects”	National	Participated	14.09.2019
Fatima College (Autonomous) Madurai	National Seminar on “Disruptive Innovation in Higher Education Curriculum – Quality Enhancement of Digital Natives and Promoting Social Equity”	National	Participated	30.08.2019
Crossian Research Forum Holy Cross College (Autonomous) Nagercoil	National Workshop on “Publishing Research Articles in Scopus Indexed Journals”	National	Participated	28.08.2019
V.O.Chidambaram College, Thoothukudi	International Conference on Recent Trends in Multi- Disciplinary	International	Presented	19.04.2018 & 20.04.2018



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	Research (ICRTMDR -2018)			
Marian Research Forum, St. Mary's College (Autonomous), Thoothukudi	National Seminar on Research in India- Current State and Future Prospects	National	Participated	11.04.2018
Research Forum and Department of Library, St. Mary's College (Autonomous), Thoothukudi	National Seminar on Academic and Research Integrity in the Digital World	National	Participated	09.12.2017
IQAC & Centre for Research, Manonmaniam Sundaranar University, Tirunelveli	A One day Research Orientation Programme for Research Supervisors of Manonmaniam Sundaranar University	Local	Participated	01.11.2017
Department of Botany, Sri Kumara Gurupara Swamigal Arts College, Srivaikundam	Science Academies' Education Lecture Workshop in Botany on "Recent Trends in Biodiversity and its Conservation (RTBC'17)	National	Participated	15.02.2017 & 16.02.2017
Marian Research Forum, St. Mary's College (Autonomous), Thoothukudi	State level lecture workshop on Multi Disciplinary Research	State level	Paper presented	7. 02. 2017
IQAC, St. Mary's College (Autonomous), Thoothukudi	National Conference on Cosmic Concerns: An Interdisciplinary Dialogue in Applied Ethics	National	Participated	27.1.2017 & 28.1.2017
St.Xaiver's College, (Autonomous) Palayamcottai, Tirunelveli District,	National conference on Recent trends in plant sciences	National	Paper presented	24.01 .2017 & 25.01.2017



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Tamilnadu				
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5. Organized

Title	Conference/ Seminar	Level: State/ National/ International	Budget	Proceedings
Nil				

6. Researchers :

a) Ongoing Scholars

Name & Address	Title	Register. No & Date of Commencement	Full Time/ Part Time	Fellowship	Completed
S. Pauline Jenifer, Assistant Professor of Botany, St. Mary's College (Autonomous), Thoothukudi	Weed as a drug for Urolithic problems	18222212142008 05 July, 2018	Part time	-	
C. Vimala, St. Mary's College (Autonomous), Thoothukudi	Phytoextraction potential of Mangrove and mangrove associates in Thoothukudi District in Tamilnadu	21212212262008 1.2.2022	Full Time	-	
Selvaananti A, St. Mary's College (Autonomous), Thoothukudi	Agricultural waste a substrate source for mushroom cultivation and fermented liquid	21212212262009 1.2.2022	Full Time	-	



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	fertilizer				
Abisha	Proximate composition, bioactive compounds, and antioxidant activity of halophytes	23112212262009	Full Time		

b) Scholars already Completed

Name & Address	Title	Register. No & Date of Commencement	Full Time/ Part Time	Fellowship	Completed
Nil					



மனோன்மனியம் சுந்தரனார் பல்கலைக்கழகம்
MANONMANIAM SUNDARANAR UNIVERSITY
(A State University, Re-Accredited with 'A' Grade by NAAC)
Abishekapatti Tirunelveli – 627 012, Tamil Nadu, India



PROF.J. SACRATEES, PH.D.,
REGISTRAR

17.08.2023

Ref MSU/RES/Ph.D GUIDESHIP/R2/2023

To

Dr.R. Mary Santhi
Assistant Professor
Department of Botany
St. Mary's College (Autonomous)
Thoothukudi

Sir/Madam,

Sub: Recognition as an approved Guide – intimation –reg.

I am by direction, to inform that, Guideship has been granted in the subject of **Botany** and it is tenable only for the period of your service in St. Mary's College (Autonomous), Thoothukudi or until your retirement.

For the regular faculty members, the maximum number of Ph.D Scholars under guidance/co-guidance is

Assistant Professor - 04 (Four)

Associate Professor- 06 (Six)

Professor - 08 (Eight)

Accordingly, at present the maximum number of Ph.D. Scholars under your guidance is **04 (Four)** only.

This is for information and adherence.

Kindly acknowledge the receipt of this communication.

REGISTRAR

Copy to:

The Principal
St. Mary's College (Autonomous)
Thoothukudi



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ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMIL NADU, INDIA



Details of the Supervisor

1. Name : Dr. R. Mary Santhi
2. Designation : Assistant Professor
3. Address : Department of Botany, St. Mary's College (Autonomous), Thoothukudi - 1
4. Phone number : 9790925505
5. Mail ID : rms.santhi@gmail.com
6. Permission letters of the supervisor (Guideship approval letter)

Publications (Preferably in SCI / SSCI / A&H Journals - only for Tamil) during the previous recognition / renewal period (only for three years)

a. Books Published: Nil

Title	Name of the Journal	Page	Rate	year	Book No.

b. Articles Published

Title	Periodicity of the article	Name of the Journal	Page	year	Journal No. ISBN/ISSN/ Impact factor No.
Induction of Apoptosis in <i>Candida albicans</i> by Semi-purified Fraction of <i>Hypnea musciformis</i>	Triannual	Asian Journal of Biological Life Sciences	44-48	2023	e-ISSN : 2278-5957
Antifungal studies on <i>Hypnea musciformis</i>	Biannual	Indian Hydrobiology	257-262	2021	0971-6548



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against medically and agriculturally important fungi					
Antibacterial studies on <i>Hypnea</i> <i>musciformis</i> against selected bacterial pathogens	Biannual	Indian Hydrobiology	251-256	2021	0971-6548



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4. Participation Details (Conference/Seminar/Workshop/Symposium)

Title/ Institution	Conference/ Seminar/ Workshop/ Symposium	Level: State/ National/ International	Status of Participation Presentation/ Participant	Year
Webinar on "NIRF & KIRF" by IQAC, Sree Narayana College, Kollam, Kerala	Webinar	National	Participant	2023
Conference on "Research Publication: An Integrative and Dynamic Approach" by Marian Research Forum, St. Mary's College (Autonomous), Thoothukudi	Conference	-	Participant	2023
International Seminar on Plant Response to Climate Change by Department of Botany and Research Centre, Scott Christian College (Autonomous), Kanniyakumari District	Seminar	International	Presentation	2022
One-Day Workshop on User Awareness on Sophisticated Instruments by Manonmaniam Sundaranar University, Tirunelveli	Workshop	-	Participant	2022
Biodiversity Conservation and Ecosystem Restoration by Biodiversity Club, Department of Botany, Vimala College	Conference	National	Presentation	2021



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ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMIL NADU, INDIA

(Autonomous), Thrissur, Kerala				
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5. Organized: Nil
6. Researchers : Nil

ANNEXURE – I
DEPARTMENT OF BOTANY
NO OF BOOKS AVAILABLE

S. No.	Subject	No. of Books
1.	Algae	104
2.	Biochemistry	185
3.	Bioinformatics	18
4.	Biotechnology	124
5.	Book Bank	24
6.	Bryophytes	44
7.	Cytology	132
8.	Developmental Botany	96
9.	Ecology	278
10.	Economic Botany	66
11.	Forestry	40
12.	Fungi	124
13.	General Botany	347
14.	Genetics	216
15.	Gymnosperms	38
16.	Horticulture	182
17.	Laboratory Manuals	118
18.	Marine Botany	26
19.	Medicinal Botany	46
20.	Microbiology	183
21.	Paleobotany	19
22.	Plant Anatomy	75
23.	Plant Breeding	62
24.	Plant Pathology	91
25.	Plant Physiology	249
26.	Pteridophytes	55
27.	Research Methodology	18
28.	Reviews	60
29.	Statistics	16
30.	Taxonomy of Angiosperms	239
31.	Thesis	478
Total		3275


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ANNEXURE – I
DEPARTMENT OF BOTANY
NO OF JOURNALS AVAILABLE

Sl. No.	NAME OF THE JOURNAL
1.	Biology Today
2.	Indian Journal of Microbiology
3.	International Journal of Biology Research
4.	International Journal of Scientific Research in Biological Sciences
5.	Journal of Plant Biochemistry and Biotechnology
6.	Pollution Research
7.	Resonance Journal of Science Education
	General Magazines
8.	CAREERS360
9.	Reader's Digest
10.	India Today
11.	Life Positive
12.	Pratiyogita Darpan
13.	The Week
14.	Competition Affairs
15.	Physics/Chemistry/Mathematics/Biology (PCMB) Today
16.	EducationWorld
17.	Grihshobha Tamil
18.	Woman's Era
19.	General Knowledge Today
20.	Competition Success Review

Botany – 8

General -13

Total No. of Journals - 20


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ANNEXURE – II
DEPARTMENT OF BOTANY

LIST OF MINOR EQUIPMENTS

S. No.	Particulars	Date of Purchase	Cost
1.	Mechanical Stirrer	25.03.2023	Rs. 10,500.00
2.	Hot Plate	26.03.2022	Rs. 12,000.00
3.	MRM-1120A Senior Rotary Microtome	18.03.2021	Rs. 40,000.00
4.	Midi Dual Wet Blot Apparatus	18.03.2021	Rs. 29,000.00
5.	-20 Degree Deep Freezer with stabilizer	18.03.2021	Rs. 52,000.00
6.	LG Refrigerator	11.02.2021	Rs. 32,490.00
7.	Refrigerated Water bath Circulator	25.02.2020	Rs. 59, 850.00
8.	HP Desktop Intel Core i3	25.02.2020	Rs. 26,250.00
9.	Computer System	17.02.2020	Rs. 25,000.00
10.	GPS System	17.02.2020	Rs. 45,500.00
11.	Magnetic Stirrer - 2	17.02.2020	Rs. 18,000.00
12.	Leaf Area meter	17.02.2020	Rs. 65,000.00
13.	Electronic Balance - 2	17.02.2020	Rs. 23,000.00
14.	Multipurpose Extractor (Mixie)	17.02.2020	Rs. 9,500.00
15.	Suction Pump	17.02.2020	Rs. 15,500.00
16.	Flourimeter	17.02.2020	Rs. 33,000.00
17.	Cellulose nitrate filtrate	17.02.2020	Rs. 1,900.00
18.	Steam Distillation	17.02.2020	Rs. 32,000.00
19.	Oil Press Machine	17.02.2020	Rs. 30,000.00
20.	Muffle Furnace	17.02.2020	Rs. 29,000.00
21.	Portable Gas sampler	17.02.2020	Rs. 31,000.00
22.	Aerator	17.02.2020	Rs. 35,781.00
23.	Plankton net	17.02.2020	Rs. 19,500.00
24.	Water bath	17.02.2020	Rs. 13,000.00
25.	Herbarium Cabinet	17.02.2020	Rs. 12,000.00
26.	Flat Bed Scanner	17.02.2020	Rs. 14,500.00
27.	Incubator	08.01.2020	Rs. 28,500.00
28.	Tissue Culture Hood	08.01.2020	Rs. 33,500.00
29.	Binocular Microscope	08.01.2020	Rs. 23,500.00
30.	High Speed Centrifuge	08.01.2020	Rs. 45,500.00
31.	Rotary Vacuum Evaporator	08.01.2020	Rs. 71,400.00
32.	Soxhlet Apparatus	08.01.2020	Rs. 38,300.00
33.	Trinocular Microscope, Camera with	08.01.2020	Rs. 92,000.00
34.	Flame Photometer	08.01.2020	Rs. 38,000.00
35.	Seed Germinator	08.01.2020	Rs. 82,000.00
36.	Incubator and Microscope	27.03.2019	Rs. 25,000.00

37.	Multiparameter Water quality Analyzer	27.03.2019	Rs. 30,000.00
38.	Leaf scanner cum printer	27.03.2019	Rs. 16,000.00
39.	Photocolorimeter	27.03.2019	Rs. 7,200.00
40.	Digital Colony Counter	27.03.2019	Rs. 6,500.00
41.	pH/ Temperature Bench meter	27.03.2019	Rs. 15,000.00
42.	Samsung Refrigerator	26.01.2018	Rs. 25,600.00
43.	Compound Microscope	12.09.2016	Rs. 22,500.00
44.	Chemical Balance	12.09.2016	Rs. 36,000.00
45.	Hallow Cathode Lamp	01.04.2015	Rs. 47,040.00
46.	Colorimeter	17.03.2014	Rs. 23,310.00
47.	PH Meter	17.03.2014	Rs. 23,310.00
48.	PH Meter	14.03.2014	Rs. 12,950.00
49.	Students Microscope model HAS make	14.03.2014	Rs. 12,950.00
50.	Projector, Projection Screen	24.02.2014	Rs. 46,100.00
51.	Acer Veriton Ci3-	13.01.2014	Rs. 33,300.00
52.	Ultra Centrifuge Stabilizer	31.10.2013	Rs. 17,393.00
53.	LG 1.5 Ton Split AC Model LSA 5M	17.10.2013	Rs. 35,350.00
54.	Digital Colorimeter	25.06.2013	Rs. 7,500.00
55.	Digital PH meter	25.06.2013	Rs. 19,700.00
56.	Digital Conductivity Meter	25.06.2013	Rs. 13,400.00
57.	Electronic Analytical Balance	25.06.2013	Rs. 92, 250.00
58.	Ultra Centrifuge stabilizer	31.10.2013	Rs. 17,393.00

LIST OF MAJOR EQUIPMENTS

S. No.	Particulars	Date of Purchase	Cost
1.	“Gippon-Getner” – Medical Microscope	09.09.2019	Rs. 1,60,480.00
2.	Thermal Cycler “Biosystems” (Minor Research Project)	31.03.2015	Rs. 2,01,000.00
3.	Atomic Absorption Spectrophotometer	13.09.2013	Rs. 5,00,000.00
4.	Ultra Centrifuge	14.08.2013	Rs. 1,92,300.00
5.	FTIR Spectrometer	15.06.2013	Rs. 11,99,100.00
6.	Power Pack	25.06.2013	Rs. 4,99,754.00
7.	Transilluminators	25.06.2013	Rs. 4,99,754.00
8.	Gel Documentation system	25.06.2013	Rs. 4,99,754.00


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ANNEXURE III
DEPARTMENT OF BOTANY

TOTAL NUMBER OF ONGOING / SUBMITTED RESEARCH SCHOLARS

Name of the Guide	Name of the Scholar	Date of Commencement & Reg. No	Full Time/ Part Time	Title of the study	Status
Dr. S. Beulah Jerlin	Ms. Eruthaya Abisha	08.05.2023 (23112212262009)	Full Time	Proximate composition and pharmacognostical evaluation of the unique potential of medicinal halophytes pearl fishery coast Thoothukudi, Tamil Nadu	Ongoing
	Ms. Vimala. C	01.02.2022 (21212212262008)	Full Time	Phytoextraction potential of mangrove and mangrove associates in Thoothukudi District in Tamilnadu	Ongoing
	Ms. Selvaananthi. A	01.02.2022 (21212212262009)	Full Time	Agricultural waste a substrate source for mushroom cultivation and fermented liquid fertilizer	Ongoing
	Ms. S. Pauline Jenifer	05.07.2018 (18222212142008)	Part Time	Weed as a drug for urelithic problems	Ongoing
Dr. A. Arockia Jenecius Alphonse	Ms. S. Vellammal	07.05.2024 (241122123008)	Full Time	Sustainable effluent management: Utilizing microalgae from salt pans in Thoothukudi	Ongoing
	Ms. Monisha. J.N	02.02.2022 (21212212262007)	Full Time	Marine macroalgae an alternative raw material for biofuel production	Ongoing
	Ms. M. Shantha	30.08.2019 (19222212272018)	Part Time	Phytochemical and molecular characterization of a few salt tolerance plants from the coastal area of Thoothukudi	Ongoing

Dr. G. Flora	Ms. Shyni. J	09.06.2023 (23122212262011)	Part Time	Biofuel potentials of microalgae strains isolated from Muthupet mangroves, India	Ongoing
	Ms. Mary Stephy. G	13.10.2021 (21112212262010)	Full Time	Identification of the ecological micro and nano plastics degrading microbes and its principle to grow transgenic algae for bioremediation	Ongoing
	Ms. Rathinam. J	07.10.2021 (21112212262009)	Full Time	Bioactive potential of selected medicinal plants used against skin diseases	Ongoing

TOTAL SCHOLARS REGISTERED FOR PH.D. PROGRAMME – 10

S. No.	Department	No. of Full Time Scholars	No. of Part Time Scholars
1.	Botany	7	3
Total Scholars - 10			


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ANNEXURE IV**DEPARTMENT OF BOTANY****TOTAL NUMBER OF SCHOLARS ALREADY AWARDED****Total Scholars Awarded – 18; Full Time – 10; Part Time -- 8**

Name of the Guide	Name of the Scholar	Full Time / Part Time	Commencement Date	Year & Month of award
Dr. Uthayakumari Kalavathy (20.09.2010)	Dr. N. Santhanamari	FT	07.08.2012	17.12.2018
	Dr. Shunmuga Jothi	FT	28.06.2012	07.10.2016
	Dr. D. Sheela	FT	25.04.2011	29.01.2016
	Dr. B. Maria Sumathi	PT	25.04.2011	14.07.2015
	Dr. V. Bharathi	FT	25.04.2011	28.02.2014
	Dr. M. Shunmuga Sundari	FT	10.05.2010	09.05.2014
	Dr. Shunmuga Priya	PT	21.08.2006	03.08.2015
Dr. Dulcy	Dr. Mathuram	PT	29.04.2004	Awarded
	Dr. Saroja	PT	12.04.2004	09.05.2011
	Dr. C. Lakshmanan	PT	14.10.2001	25.01.2010
Dr. Maria Victorial Rani (20.11.1998)	Dr. Kumershwari	FT	28.02.2013	29.05.2017
	R. Usha	FT	17.08.2010	13.02.2015

	F. Dayana Lobo	PT	30.07.2010	09.01.2015
	G. Flora	FT	17.11.2008	26.4.2013
	Dr. Vennila	FT		Awarded
	Dr. Glory	PT	06.09.2001	18.09.2008
Dr. M. Glory (19.03.2012)	Dr. P. Hermalin	FT	17.04.2014	05.03.2019
	A. Jacintha Tamil Malar	PT	05.07.2012	06.04.2018

Jessie
HOD of Botany
St. Mary's College (Autonomous)
Thoothukudi- 628 001.

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

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