

## Holy Cross College, Nagercoil - Research Centres

### 1. ZOOLOGY RESEARCH CENTRE

**Year of establishment: 2000**

**Areas of Research** : Immunology – Lectinology, Crustacean Physiology, Molecular taxonomy  
Environmental Biology, Entomology, Environmental microbiology,  
Ecotoxicology, Epidemiology

#### Approved Research Guides

| Sl. No. | Research Guide/ Supervisor     | Guideship Ref. Number                     | Area of specialization                          |
|---------|--------------------------------|-------------------------------------------|-------------------------------------------------|
| 1       | Dr. S. Mary Mettilda Bai       | MSU/RES/INT/GUIDESHIP/R5/2016; 05.05.2016 | Immunology – Lectinology, Environmental Biology |
| 2       | Dr. F. Brisca Renuga           | MSU/RES/INT/GUIDESHIP/R5/2013; 28.11.2013 | Entomology and Environmental microbiology       |
| 3       | Dr. J. Vinoliya Josephine Mary | MSU/RES/INT/GUIDESHIP/R5/2010; 27.09.2010 | Immunology – Lectinology and Ecotoxicology      |
| 4       | Dr. A. Shyla Suganthi          | RES/Guide/Approval./R1; 10.11.2008        | Crustacean Physiology and Molecular taxonomy    |
| 5       | Dr. Jeni Chandar Padua         | MSU/RES/INT/GUIDESHIP/R5/2017; 31.05.2017 | Environmental Biology and Epidemiology          |

#### List of Scholars, who completed their Ph.D. programme till May 2023

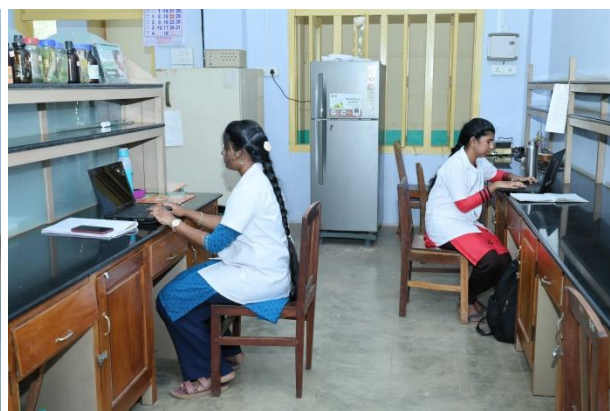
| Sl. No | Name of the scholar         | Name of the Supervisor                      | Title of the thesis                                                                                                                                                              | Date of the award |
|--------|-----------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1      | M. Jaya Lakshmi             | Dr. Sr. Mercy P.D                           | Coconut pest <i>Oryctes rhinoceros</i> lectin: Nature, purification and eco-physiological significance.                                                                          | 25.09.2006        |
| 2      | J. Vinoliya Josephine Mary  | Dr. Sr. Mercy P.D (Dr. Sr. M.R. Basil Rose) | Centipede hemolymph lectin: Nature, Purification and Possible functions.                                                                                                         | 05.05.2008        |
| 3      | C. Josephine Priyatharshini | Dr. Sr. M.R. Basil Rose                     | O-acetyl sialic acid specific lectin from the hemolymph of the freshwater crab <i>Barytelphusa cunicularis</i> .                                                                 | 27.02.2009        |
| 4      | R. Viswambari Devi          | Dr. Sr. M.R. Basil Rose                     | Sialic acid specific lectins in the hemolymph of the mangrove crab, <i>Episesarma tetragonum</i> (Fabricius): Isolation, characterization and biological role.                   | 29.11.2008        |
| 5      | S. Prakash Shoba            | Dr. Sr. M.R. Basil Rose                     | Sialic acid specific hemolymph lectin from the crab <i>Varuna Litterata</i> (Fabricius): Purification, characterization and biological role.                                     | 29.02.2012        |
| 6      | A. Punitha                  | Dr. Sr. M.R. Basil Rose                     | Sialic acid binding lectin from the hemolymph of an estuarine crab, <i>Metopograpsus messor</i> (Forsk.) : Isolation, purification, characterization and antibacterial activity. | 05.07.2013        |

|    |                      |                                |                                                                                                                                                                                              |            |
|----|----------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 7  | S. Mary Mettilda Bai | Dr. Sr. M.R. Basil Rose        | <i>Lamella lamellifrons</i> hemolymph lectin: Purification, Characterization and possible functions.                                                                                         | 05.11.2013 |
| 8  | V. Ganapriya         | Dr. A. Shyla Suganthi          | Ultrastructural and biochemical studies on male reproductive system of the brachyuran crab, <i>Parasesarma plicatum</i> (Latreille, 803).                                                    | 14.08.2013 |
| 9  | Jeni Chandar Padua   | Dr. Sr. M.R. Basil Rose        | Natural Radiation from Coastal Sand: Impact on growth and development as evidenced from the domestic chick, <i>Gallus domesticus</i> .                                                       | 10.01.2014 |
| 10 | A. Arul Gandhi       | Dr. Sr. M.R. Basil Rose        | Pill Millipede midgut gland lectin: Effect on human cancer cell lines.                                                                                                                       | 27.10.2014 |
| 11 | E. Jasmine           | Dr. A. Shyla Suganthi          | Functional maturity and reproduction in a female brachyuran crab, <i>Parasesarma plicatum</i> (Latreille).                                                                                   | 06.03.2015 |
| 12 | S. Shoba             | Dr. S. Jaya Suriya             | Studies on the resistance response of three egg plant varieties ( <i>Solanum melongena</i> L. Against rat knot nematode, <i>Meloidogyne incognita</i> (Kofoid & White 1919; Chitwood, 1949). | 20.07.2015 |
| 13 | I. Sakunthala        | Dr. A. Shyla Suganthi          | Semenogenesis and sperms storage in a brachyuran crab, <i>Sarmatium punctatum</i> (A. Le Edwards, 1875)                                                                                      | 02.09.2016 |
| 14 | A. Jenitta           | Dr. S. Jaya Suriya             | Culture and the prospects for potential utilization of a microalgae, <i>Dunaliella bardawil</i> (Chlorophyceae).                                                                             | 14.10.2016 |
| 15 | G. Rani Shymala Devi | Dr. Sr. M.R. Basil Rose        | Affinity purification and subsequent characterization of an O-acetyl sialic acid specific lectin from the hemolymph of the freshwater mussel, <i>Lamellidens marginalis</i> (Lamarck).       | 31.03.2017 |
| 16 | Jilian V. Paul       | Dr. J. Vinoliya Josephine Mary | Functional characterization and cytotoxic properties of a sialic acid specific lectin isolated from the coelomic fluid of starfish <i>Protoreaster linckii</i> (Blainville, 1830).           | 11.12.2017 |
| 17 | V.U. Sheeja          | Dr. Sr. M.R. Basil Rose        | Freshwater crab <i>Travancoriana charu</i> (Bahir and Yeo, 2007) hemolymph lectin: isolation, purification and possible biological applications.                                             | 26.06.2018 |
| 18 | P.T. Arokya Glory    | Dr. Sr. M.R. Basil Rose        | Insect Lectin: isolation, purification and biological role.                                                                                                                                  | 17.09.2018 |
| 19 | R. Thanamalini       | Dr. A. Shyla Suganthi          | Biological identification of selected brachyuran crabs through DNA barcode.                                                                                                                  | 11.02.2019 |
| 20 | C. Anitha            | Dr. Sr. M.R. Basil Rose        | Identification, isolation, purification and characterization of a sialic acid specific lectin from a millipede.                                                                              | 21.05.2019 |

|    |                        |                                |                                                                                                                                                                |            |
|----|------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 21 | T. Elaya Bharathi      | Dr. J. Vinoliya Josephine Mary | Isolation, characterization and Biological Significance of a sialic acid Specific lectin from the marine crab <i>Atergatis integerrimus</i> (Lamarck, 1818).   | 16.12.2019 |
| 22 | J. Raja Selvam         | Dr. Sr. M.R. Basil Rose        | Serum Hemagglutinins from a marine crab: isolation, purification and possible functions.                                                                       | 02.01.2020 |
| 23 | H.M. Sheeja            | Dr. J. Vinoliya Josephine Mary | Purification, characterization and biological significance of lectins isolated from the coelomic fluid and egg of sea urchin <i>Stomopneustes variolaris</i> . | 11.03.2020 |
| 24 | A. Arokya Jothi Blessy | Dr. Sr. M.R. Basil Rose        | Starfish Coelomic fluid lectin: Purification, Characterization and possible functions.                                                                         | 06.10.2020 |
| 25 | F. Vargila             | Dr. S. Mary Mettilda Bai       | Characterization, Biomedical Applications and Silver Nano Conjugation of NagLec, a Lectin isolated from the Freshwater Crab, <i>Oziotelphusa Naga</i> .        | 07.05.2021 |
| 26 | Nightingale Sheeba     | Dr. J. Vinoliya Josephine Mary | Characterization and biomedical application of a novel D-Mannose specific lectin isolated from the flower of <i>Ipomea Pes caprae</i> (L) R.Br.                | 19.07.2021 |
| 27 | N. Latha               | Dr. Sr. M.R. Basil Rose        | Thrombolytic and antimicrobial properties of a few selected plants used in Tribal medicine.                                                                    | 09.06.2022 |
| 28 | N. Subash              | Dr. F. Brisca Renuga           | Antibiotic Potential of <i>Indigofera aspalathoides</i> Vahl. and Pathological Analysis of Freshwater Prawn, <i>M. rosenbergii</i> De Man.                     | 15.07.2022 |







## FACILITIES – INSTRUMENTS

### BINOCULAR MICROSCOPEs



**ANALYSER**



**HPLC**



**DEEP FREEZER**



**COOLING CENTRIFUGE**



**INCUBATOR**



**HOT AIR OVEN**





**HOMOGENIZER**



**COLONY COUNTER**



**ELECTROPHORESIS APPARATUS**



**SPECTROPHOTOMETER**



**SEMI DRY TRANSFER APPARATUS    BLOOD BANK**



**AUTOClave**



**pH METER**



**AFFINITY CHROMATOGRAPHY APPARATUS**



**ELECTRONIC BALANCE**



## 2. ENGLISH RESEARCH CENTRE

**Year of establishment:** 2009

**Areas of research:** Indian Writing in English, Cultural Studies, Gender Studies, Eco Critical Studies, Psycho-Social Studies, Commonwealth Literature, Literary Theories, English Language Teaching

### Approved Research Guides

| Sl. No. | Research Guide/ Supervisor      | Guideship Ref. Number          | Area of specialization    |
|---------|---------------------------------|--------------------------------|---------------------------|
| 1       | Dr. Alby Grace                  | MSU/RES/INT/GUIDESHIP/R5/2017  | Cultural Studies          |
| 2       | Dr. H. Jimsy Asha               | MSU/RES/INT/GUIDESHIP/R5/2017  | Commonwealth Literature   |
| 3       | Dr. V. Virgin Nithya Veena      | MSU/RES/PH.D/GUIDESHIP/2020    | Literary Theories         |
| 4       | Dr. M. F. Anne Feril            | MSU/RES/ GUIDESHIP/R9/2018     | Gender Studies            |
| 5       | Dr. Selva Mary Gokila S. George | MSU/RES/ GUIDESHIP/R9/2018     | Feminism                  |
| 6       | Dr. P. Sathya                   | MSU/RES/Ph.D/GUIDESHIP/R2/2022 | English Language Teaching |

### List of Scholars, who completed their Ph.D. programme till May 2023

| Sl. No | Name of the scholar    | Name of the Supervisor           | Title of the thesis                                                                                                                     | Date of the award |
|--------|------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1      | S. Sumy                | Dr. J. Elizabeth Lucy            | Cultural impact in the Select Fiction of Amitav Ghosh and Anitha Nair.                                                                  | 06.03.2015        |
| 2      | V. Sumitha             | Dr. W. Mary Premalatha           | Select Fiction of Bapsi Sidhwa- A Cultural Study.                                                                                       | 30.03.2015        |
| 3      | M. F. Anne Feril       | Dr. W. Mary Premalatha           | Select Novels of Tony Morison and Anita Nair: A Gender Study.                                                                           | 31.07.2015        |
| 4      | Raja Prabha            | Dr. W. Mary Premalatha           | Fictions of Shashi Tharoor and Chetan Bhagat- A Cultural Study.                                                                         | 15.07.2016        |
| 5      | V. Amutha              | Dr. J. Elizabeth Lucy            | Subjectivity in the Select Fiction of Geetha Hariharan and Margaret Atwood.                                                             | 15.09.2017        |
| 6      | Roselin Linitta George | Dr. J. Elizabeth Lucy            | Assimilation and Assertion of Migrant Identity in the Select Fiction of Salman Rushdie: A Psycho-Social perspective.                    | 01.03.2018        |
| 7      | Evelina Shindiya       | Dr. J. Elizabeth Lucy            | Social Realism in the Fiction of Vikram Sethe and Anita Nair.                                                                           | 18.01.2019        |
| 8      | V. Virgin Nithya Veena | Dr. J. Elizabeth Lucy            | Victimhood in the Select Fiction of Mulk Raj Anand and Aravind Adiga: A Subaltern Perspective.                                          | 25.01.2019        |
| 9      | F.A. Binu Josy         | Dr. J. Elizabeth Lucy            | The Treatment of Tradition, Transition and Modernity in the Select Fiction of Manju Kapur and Vikram Sethe: A Postcolonial Perspective. | 15.02. 2019       |
| 10     | Hamilton George        | Dr. Elizabeth Thomas (Sr. Doris) | Ecofiction as Meditation Foundation towards Self Awareness.                                                                             | 2020              |
| 11     | Kavitha Karen Xavier   | Dr. Elizabeth Thomas             | An Exploration into the Human Soul and the Evolution of the Human Self: A Study of Select Autobiographies of Artists and Statesmen.     | 2020              |



|    |                    |                         |                                                                                                             |            |
|----|--------------------|-------------------------|-------------------------------------------------------------------------------------------------------------|------------|
| 12 | S.A. Sovya Shephyr | Dr. H. Jimsy Asha       | “Ideals turned Illusions: A plea for syntagmatic Relationship in the select novels of Ibrahim al-Koni”.     | 25.08.2022 |
| 13 | R. Antony Vincily  | Dr. Alby Grace          | Subjugation of the subjects: A Socio-Cultural Expedition in the works of Khaled Hosseini and Nadia Hashimi. | 26.08.2022 |
| 14 | S.A. Alice Fathima | Dr.M.F. Anne Feril      | Psycho-Social Reflection in the Select Plays of Mahesh Dattani.                                             | 03.11.2022 |
| 15 | Tessy A. Joseph    | Dr.H. Jimsy Asha        | Realize and to Release the Fractured Realities in the Select Works of Nayomi Munaweera and Roma Tearne.     | 28.11.2022 |
| 16 | V. Priyadharshini  | Dr. Selva Mary Gokila S | Alternative Construal: Memory, Loss and Trauma in the Novels of Kazuo Ishiguro.                             | 30.01.2023 |

### ENGLISH RESEARCH CENTRE





*With a kind breaking urge to delve deeper into the keystone for unified discoveries, the research scholars of English use the department library as well as the college library which totally consist of 10,771 books and 18 journals.*





### 3. PHYSICS RESEARCH CENTRE

**Year of establishment :** 2010

**Areas of research :** Crystal Physics, Thin Films Theoretical Physics Nano Physics Polymers

#### Approved Research Guides

| Sl. No. | Research Guide/ Supervisor | Guideship Ref. Number                                | Area of specialization                       |
|---------|----------------------------|------------------------------------------------------|----------------------------------------------|
| 1       | Dr. S. Mary Delphine*      | MSU/RES/GUIDE APPROVAL/R1 dated 13.09.2008           | Physics - Thin Films & Crystal Growth        |
| 2       | Dr. C. Nirmala Louis       | MSU/RES/GUIDE/APPROVAL/R/ dated 13.9.2008            | Theoretical Condensed Matter Physics         |
| 3       | Dr. V. Shally              | MSU/RES/Ph.D./ Guideship/R1/2019 dated as 21.02.2019 | Nanophysics                                  |
| 4       | Dr. A. Lesly Fathima       | MSU/RES/INT/GUIDESHIP/R5/2017/ dated 07.04.2017      | Solid State Physics – Polymer Nanocomposites |
| 5       | Dr. M. Priya Dharshini     | MSU/RES/Ph.D./Guideship/R1/2019 dated 20.02.2019     | Nanophysics                                  |
| 6       | Dr. R. Krishna Priya       | MSU/RES/Ph.D./Guideship/R1/2019 dated 20.02.2019     | Material Science and Bio Polymers            |
| 7       | Dr. S. Sonia               | MSU/RES/Ph.D/S.F./Guideship/R1/2019                  | Nanophysics                                  |

#### List of Scholars, who completed their Ph.D. programme till May 2023

| Sl. No | Name of the scholar           | Name of the Supervisor | Title of the thesis                                                                                                                                                  | Date of the award |
|--------|-------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1.     | M. Mary Freeda                | Dr. S. Mary Delphine   | Growth and Characterization of some alkaline earth tartrate single crystals                                                                                          | 03.01.2014        |
| 2.     | R. Krishna Priya              | Dr. S. Mary Delphine   | Growth and Characterization of L-Arginine doped with some sulphate crystals.                                                                                         | 12.11.2014        |
| 3.     | S. Ajitha                     | Dr. S. Mary Delphine   | Study on nonlinear optical crystals doped with amino acid.                                                                                                           | 22.01.2016        |
| 4.     | A. Reijo Joice                | Dr. Sr. Gerardin Jayam | Investigations on various optical properties of low dimensional system                                                                                               | 21.03.2016        |
| 5.     | M. Priya Dharshini            | Dr. Sr. Gerardin Jayam | Hematite-based Core-Shell Nanostructures: Photocatalytic and Bactericidal Applications.                                                                              | 27.02.2017        |
| 6.     | V. Shally                     | Dr. Sr. Gerardin Jayam | A novel surfactant assisted rare earth doped ZnO nanostructures for photo-catalytic and antibacterial applications.                                                  | 01.03.2017        |
| 7.     | S. Antony Domonic Christopher | Dr. Sr. Gerardin Jayam | Growth and Characterisation of L-Threonine NLO single crystals doped with Zn ions.                                                                                   | 06.12.2017        |
| 8.     | B. Benaline Sheeba            | Dr. C. Nirmala Louis   | Theoretical study on the band structure, metalization and superconducting transition of group V semiconductors under high pressure.                                  | 23.04.2018        |
| 9      | J. Jesse Pius                 | Dr. C. Nirmala Louis   | Theoretical Investigation on the electronic band structure density of states, metallization and superconductivity in group II-VI semiconductors under high pressure. | 07.01.2019        |
| 10     | T. Lidia Arokia Thai          | Dr. S. Mary Delphine   | Growth and Characterization study on succinic acid doped sulphate crystals.                                                                                          | 16.04.2019        |



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|----|--------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 11 | B.S. Benila              | Dr. S. Mary Delphine   | Growth and Characterization of L-Alanine based Nonlinear optical crystals.                                                                                     | 05.07.2019 |
| 12 | P. Libin Raj             | Dr. Sr. Gerardin Jayam | Bioinspired synthesis, characterization and applications of metal oxide nanostructures.                                                                        | 03.09.2019 |
| 13 | A.R.S. Jansi Rani Juliet | Dr. S. Mary Delphine   | Studies on NLO mixed Amino acid Crystals.                                                                                                                      | 30.01.2020 |
| 14 | S. Sebastiammal          | Dr. A. Lesly Fathima   | Green and Chemical Synthesis of Monovalent and Divalent Metal Ion Doped Nano Hydroxyapatite (n-HAp): Remediation towards human pathogens and Cancer Cells.     | 11.06.2021 |
| 15 | M. Abila Jeba Queen      | Dr. S. Mary Delphine   | Growth and characterization of Organometallic doped amino acid crystals.                                                                                       | 14.06.2021 |
| 16 | Y. Ramola                | Dr. C. Nirmala Louis   | Theoretical investigation of band structure, density of states, structural changes, metallization and superconductivity in Alkali Bromides and Alkali Iodides. | 29.10.2021 |
| 18 | P. Geneva Sequirea Roche | Dr. A. Lesly Fathima   | Growth and studies of some iodic acid based nonlinear optical crystals.                                                                                        | 10.04.2022 |
| 17 | M. Latha Beatrice        | Dr. S. Mary Delphine   | Quantum Chemical Computations and Vibrational spectral studies of certain antimicrobial activity molecules.                                                    | 18.04.2022 |

### PHYSICS RESEARCH CENTRE



ULTRASONICATOR



CONSTANT TEMPERATURE BATH



VACCUM DESICCATOR



MAGNETIC STIRRER



UV-VIS SPECTROPHOTOMETER AND DIGITAL LCR METER



SPIN COATER



IMPEDANCE ANALYZER



KEITHLEY INSTRUMENTS





MECHANICAL STIRRER



PELLETIZER



BOROZIL DOUBLE DISTILLTOR



ROTA MANTLE



REFLUX CONDENSOR



TUBULAR FURNACE



HOT AIR OVEN



ELECTRO DEPOSITION UNIT





## MUFFLE FURNACE



INFRA ELECTRONIC BALANCE



MEGOHM METER



## FOUR PROBE AND HALL PROBE SET UP



## VACUUM DESICATOR



## UV VIS SPECTROPHOTOMETER



#### 4. BOTANY RESEARCH CENTRE

**Year of establishment:** 2010

**Areas of research:** Pharmacology, Tissue Culture, Nanotechnology, Plant Taxonomy, Phytochemistry

##### Approved Research Guides

| Sl. No. | Research Guide/ Supervisor | Guideship Ref. Number                       | Area of specialization |
|---------|----------------------------|---------------------------------------------|------------------------|
| 1       | Dr. A. Anami Augustus Arul | MSU/RES/INT/GUIDESHIP/R5/2017<br>29.06.2017 | Plant Taxonomy         |
| 2       | Dr. Bojaxa A. Rosy         | MSU/RES/INT/GUIDESHIP/R5/2017<br>13.02.2017 | Tissue Culture         |

##### List of Scholars, who completed their Ph.D. programme till May 2023

| Sl. No. | Name of the scholar   | Name of the Supervisor | Title of the thesis                                                                                                          | Date of the award |
|---------|-----------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1       | Bojaxa A. Rosy        | Dr. P. J. Rosakutty    | Micropropagation, Pharmacognostic and RAPD studies on selected members of the Genus <i>Cissus</i> , Family Vitaceae.         | 17.09.2013        |
| 2       | P. Leema Rose         | Dr. P. J. Rosakutty    | Micropropagation, Anatomical and preliminary analysis of a endemic medicinal plant <i>Jatropha maheshwarii</i> Subr. & Naya. | 06.06.2014        |
| 3       | A. Anusha             | Dr. P. J. Rosakutty    | Genetic and morphological variation in selected species of <i>Jasminum</i> L. (Oleaceae).                                    | 24.06.2016        |
| 4       | N. Benit              | Dr. A. Stella Rosllin  | Studies on the biotic and abiotic parameter of the running course of the river paraliyar in Kanyakumari District.            | 30.06.2018        |
| 5       | L. Dyona              | Dr. A. Stella Rosllin  | Studies on the biotic and abiotic parameter of the running course of the river paraliyar in Kanyakumari District.            | 21.09.2020        |
| 6       | G. Jebiya Chinna Rani | Dr. C. Jespin Ida      | Studies on the Phytochemical and biological characteristics of an ethnomedicinal herb <i>Begonia floccifera</i> Bedd.        | 30.06.2021        |

##### BOTANY RESEARCH LABORATORY WITH FACILITIES











## 5. CHEMISTRY RESEARCH CENTRE

**Year of establishment:** 2017

**Areas of research** : Polymer Chemistry, Co- ordination Chemistry, Photochemistry and Environmental Chemistry

### Approved Research Guides

| Sl. No. | Research Guide/ Supervisor | Guideship Ref. Number                       | Area of specialization                       |
|---------|----------------------------|---------------------------------------------|----------------------------------------------|
| 1       | Dr. G. Leema Rose*         | MSU/RES/INT/GUIDESHIP/R5/2010<br>06-04-2010 | Environmental Chemistry<br>Polymer Chemistry |
| 2       | Dr. M. Anitha Malbi        | MSU/RES/INT/GUIDESHIP/R5/2017<br>25-05-2017 | Polymer Chemistry<br>Nanotechnology          |
| 3       | Dr. R. Gladis Latha        | MSU/RES/Ph.D./Guideship/2020<br>12.08.2020  | Environmental Chemistry                      |
| 4       | Dr. S. Ajith Sinthuja      | MSU/RES/GUIDESHIP/R9/2018<br>10-05-2018     | Co-ordination Chemistry                      |
| 5       | Dr. Sheeba Daniel          | MSU/RES/SF/GUIDESHIP/R9/2018<br>02-04-2018  | Photochemistry                               |
| 6       | Dr. Y. Christabel Shaji    | MSU/RES/Ph.D./Guideship/2020<br>09.12.2020  | Polymer Chemistry                            |

### List of Scholars, who completed their Ph.D. programme till May 2023

| Sl. No | Name of the scholar | Name of the Supervisor | Title of the thesis                                                                                                  | Date of the award |
|--------|---------------------|------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------|
| 1      | S. Santhiya         | Dr. Sheeba Daniel      | Design, synthesis and biological evaluation of novel ruthenium (II)-polypyridine complexes.                          | 16.02.2022        |
| 2      | B.T. Delma          | Dr. M. Anitha Malbi    | Plant mediated synthesis and characterization of transition metal oxide nanoparticles and their biological activity. | 17.11.2022        |

## RESEARCH LIBRARY & RESEARCH LABORATORY







**MUFFLE FURNACE**



**SONICATOR**



**GEIGER MULLER COUNTER**



**FLAME PHOTOMETER**



**WATER ANALYSER**



**LACTOMETER**



**pH METER**



**DIGITAL H<sub>2</sub>S AND CH<sub>4</sub> ANALYZER**



**HOT AIR OVEN**



**WATER BATH**



## 6. HISTORY RESEARCH CENTRE

**Year of establishment:** 2017

**Areas of research:** Political History, Modern History, Local History, Minority and Women Studies

### Approved Research Guides

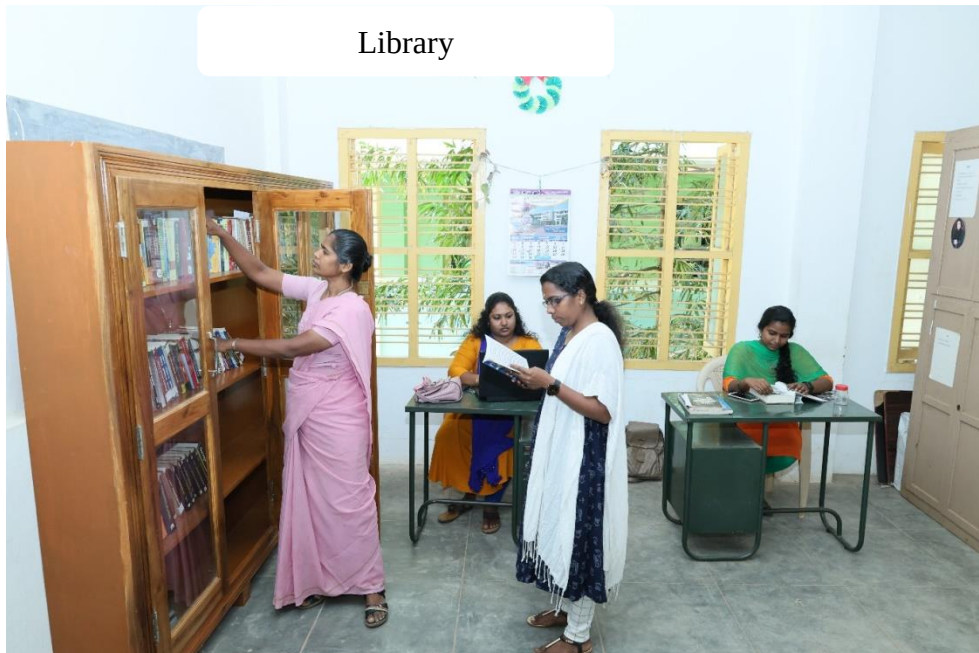
| Sl. No. | Research Guide/ Supervisor | Guideship Ref. Number                       | Area of specialization                            |
|---------|----------------------------|---------------------------------------------|---------------------------------------------------|
| 1       | Dr. S. Regi                | MSU/RES/INT/GUIDE/R5/2009-10<br>26.04.2011  | Political History, Modern History & Women Studies |
| 2       | Dr. I. Jalaja Kumari       | MSU/RES/INT/GUIDESHIP/R5/2017<br>25.07.2017 | Local History                                     |
| 3       | Dr. K. S. Soumya           | MSU/RES/SEF/GUIDE/R9/2018<br>01.02.2018     | Minority Studies                                  |

### List of Scholars, who completed their Ph.D. programme till May 2023

| Sl. No | Name of the scholar    | Name of the Supervisor | Title of the thesis                                                                             | Date of the award |
|--------|------------------------|------------------------|-------------------------------------------------------------------------------------------------|-------------------|
| 1      | S. Payan               | Dr. S. Regi            | Vaikundar in Valkai Thathuvangal (Tamil).                                                       | 02.05.2014        |
| 2      | P. Ramesh              | Dr. S. Regi            | Irrigation and Agriculture Development in Kanyakumari District Since Independence.              | 22.09.2014        |
| 3      | M. Anusha Angel        | Dr. S. Regi            | PilgrimCentres in Kanyakumari District.                                                         | 11.05.2015        |
| 4      | D. Vinoba Gladis       | Dr. S. Regi            | The Role of Christianity in the Progress of Details in Kanyakumari.                             | 18.02.2018        |
| 5      | T. Kalaiselvi          | Dr. S. Regi            | Historical Study of the Kurunthancode Panchayat Union.                                          | 14.06.2018        |
| 6      | Y. Mallika             | Dr. S. Regi            | Development of Kanyakumari District Since 1956-2004 A.D.                                        | 11.03.2019        |
| 7      | P .Justin Jeya Singh   | Dr. S. Regi            | An Economic History of Kanyakumari.                                                             | 01.11.2019        |
| 8      | K. Sherly              | Dr. K. S. Soumya       | Origin, Growth and Societal impact of Kalaripayattu and the art of Varmam in Travancore.        | 31.01.2022        |
| 9      | U.R. Reshma            | Dr. K.S. Soumya        | Emergence and the Development of Press in Travancore.                                           | 02.02.2022        |
| 10     | D. Suja Nalatha Kumari | Dr. I. Jalaja Kumari   | ‘Travancore Kings’ Relationship with the London Missionary Society, 1806-1908.                  | 12.08.2022        |
| 11     | R. Shamini             | Dr. K.S. Soumya        | A Historical Study on The Developments of Marthandam as A Trade Centre In Kanyakumari District. | 07.10.2022        |
| 12     | P. Vellasamy           | Dr. K. S. Soumya       | Socio-Cultural development of Sankarankoil Taluk – a Study.                                     | 16.11.2022        |
| 13     | Ms. P. Ashmi Jenex     | Dr. I. Jalaja Kumari   | History of the Aye Kingdom.                                                                     | 20.02.2023        |



Library





## 7. ECONOMICS RESEARCH CENTRE

**Year of establishment:** 2018

**Areas of research:** Agricultural, Industrial and Health Economics

**Approved Research Guides**

| Sl. No. | Research Guide/ Supervisor | Guideship Ref. Number                  | Area of specialization |
|---------|----------------------------|----------------------------------------|------------------------|
| 1       | Dr. Sr. Anne Perpet Sophy* | MSU/RES/GUIDESHIP/R5/2012 - 09.11.2012 | Industrial Economics   |
| 2       | Dr. S. Jeni Sanjana        | MSU/RES/GUIDESHIP/R5/2013 - 19.11.2013 | Agricultural Economics |
| 3       | Dr. S. Vimal Dolli         | MSU/RES/GUIDESHIP/R9/2018 - 10.10.2018 | Health Economics       |

### List of Scholars, who completed their Ph.D. programme till May 2023

| Sl. No | Name of the scholar | Name of the Supervisor | Title of the thesis                                                                        | Date of the award |
|--------|---------------------|------------------------|--------------------------------------------------------------------------------------------|-------------------|
| 1      | A. Preetha Kumari   | Dr. S. Jeni Sanjana    | Utilisation of public health services by the working class people in Kanyakumari district. | 09.11.2020        |



## 8. COMMERCE RESEARCH CENTRE

**Year of establishment:** 2018

**Areas of research:** Finance, Marketing, Banking, Human Resource Management

### Approved Research Guides

| Sl. No. | Research Guide/ Supervisor | Guideship Ref. Number                                    | Area of specialization    |
|---------|----------------------------|----------------------------------------------------------|---------------------------|
| 1       | Dr. Sr. Sahayaselvi        | MSU/RES/INT/Guideship/R5/2017<br>Dated 26.05.2017        | Finance                   |
| 2       | Dr. M. Mary Helen Stella   | MSU/RES/INT/Guideship/R5/2017;<br>Dated 01.06.2017       | Marketing                 |
| 3       | Dr. S. Mary Pearly Sumathi | Ref.No.MSU/RES/Ph.D/ Guideship /2021<br>Dated 14.07.2021 | Banking                   |
| 4       | Dr. C. Braba               | MSU/RES/SF/Guideship/R9/2018<br>Dated 02.04.2018         | Marketing                 |
| 5       | Dr. C. K. Sunitha          | MSU/RES/GUIDESHIP/R9/2018;<br>Dated 23/05/2018           | Finance                   |
| 6       | Dr. J. Divya Merry Malar   | MSU/RES/SF/Guideship/R9/2018                             | Service Marketing         |
| 7       | Dr. M. Gnana Muhila        | MSU/RES/CCG/R2/2022                                      | Human Resource Management |

### List of Scholars, who completed their Ph.D. programme till May 2023

| Sl. No | Name of the scholar    | Name of the Supervisor   | Title of the thesis                                                                                                    | Date of the award |
|--------|------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1      | G. Hesil Jerda         | Dr. Sr. S. Sahayaselvi   | GREEN PACKAGING: An Eco-friendly Approach Towards Sustainable Development in Coastal Villages of Kanyakumari District. | 20.07.2021        |
| 2      | J. Jani Merci Bai      | Dr. Sr. S. Sahayaselvi   | Social Media Advertisements: An Influence on Buying Behaviour of College Students in Kanyakumari District              | 18.11.2021        |
| 3      | A. Martina Franciska   | Dr. Sr. S. Sahayaselvi   | Digital payments: A Study on Awareness Perception and Preference Among the users in Kanyakumari.                       | 24.06.2022        |
| 4      | Ms. A. Franklin Ragila | Dr. J. Divya Merry Malar | A Study on the Impact of Performance Appraisal of Private Bank Employees in Kanyakumari District.                      | 21.03.2023        |





## 9. MATHEMATICS RESEARCH CENTRE

**Year of Establishment:** 2018

**Area of Research** : Graph Theory, Fuzzy Modelling, Fuzzy Graphs

### Approved Research Guides

| Sl. No. | Research Guide/ Supervisor  | Guideship Ref. Number                      | Area of specialization |
|---------|-----------------------------|--------------------------------------------|------------------------|
| 1       | Dr. V. M. Arul Flower Mary* | MSU/RES/INT/GUIDESHIP/R5/ 2017; 01.07.2017 | Stochastic Process     |
| 2       | Dr. M. K. Angel Jebitha     | MSU/RES/INT/GUIDESHIP/R5/ 2017; 04.09.2017 | Graph Theory           |
| 3       | Dr. S. Sujitha              | MSU/RES/INT/GUIDESHIP/R5/ 2017; 04.09.2017 | Graph Theory           |
| 4       | Dr. V. Sujin Flower         | MSU/RES/Ph.D./Guideship/2020 20.03.2020    | Graph Theory           |
| 5       | Dr. J. Befija Minnie        | MSU/RES/Ph.D./Guideship/2020 20.03.2020    | Fuzzy Set Theory       |
| 6       | Dr. K. Jeya Daisy           | MSU/RES/Ph.D Guideship/R2/2023 24.03.2023  | Graph Theory           |

### List of Scholars, who completed their Ph.D. programme till May 2023

| Sl. No | Name of the scholar            | Name of the Supervisor    | Title of the thesis                                 | Date of the award |
|--------|--------------------------------|---------------------------|-----------------------------------------------------|-------------------|
| 1      | L. Mary Jenitha                | Dr. S. Sujitha            | A Study on Arithmetic Graphs.                       | 31.10.2022        |
| 2      | A. Annie Lydia                 | Dr. M.K. Angel Jebitha    | A Study on Perfect Mean Cordial Labeling of Graphs. | 02.11.2022        |
| 3      | Ms. Victoria Jayafin Nisha S.L | Dr. V.M. Arul Flower Mary | A Study on Minimum Dominating Energy of Graphs.     | 22.12.2022        |



**RESEARCH CENTRE OF MATHEMATICS**





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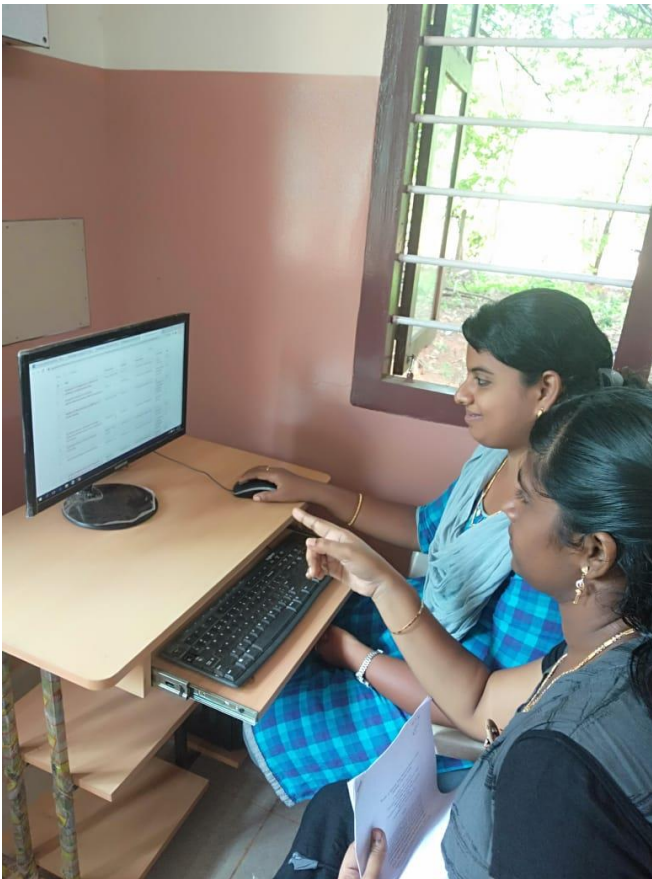


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**EXPLORING DIVERSE ASPECTS IN RESEARCH BY THE SUPERVISOR**





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