

REPORT

BIANNUAL RESEARCH MEET Organized by TRACC, 14th JULY 2023

Teresian Research and Consultancy Cell (TRACC) conducted its biannual research meet on 14th July 2023. Dr. Priya Nair welcomed the gathering. Dr. Kala M.S., the vice principal, presided the session. The guest of honour Prof. Mohamed Hatha Abdulla (Professor, Department of Marine Biology, Microbiology and Biochemistry, Cochin University of Science And Technology) delivered the keynote address, on the topic ‘Modern Trends in Research Methodology’. It was an enlightening session coined with immense knowledge and experience. He termed research as a ‘formalized curiosity’ which has to be delivered like a coherent story. The inaugural session was concluded by a vote of thanks by Dr. Thushara George, Associate Professor, Dept. of Economics.



 **ST. TERESA'S COLLEGE**
(AUTONOMOUS), ERNAKULAM
College with Potential for Excellence
Re-accredited by NAAC with A⁺ Grade & CGPA 3.57 (4th Cycle)
Ranked 41st in NIRF 2023



**TERESIAN RESEARCH AND
CONSULTANCY CELL (TRACC)
BIANNUAL RESEARCH MEET
2023-24**

14 JULY 2023
Arts Block Auditorium
09:00 AM

 **Guest of Honour :**
Prof. MOHAMED HATHA ABDULLA
(Professor, Department of Marine Biology, Microbiology
and Biochemistry, Cochin University of Science
and Technology, Kochi)

Registration @ 8.30 am

ROGRAMME SCHEDULE

WELCOME : Dr. Priya K Nair
Assistant Professor, Department of English

PRESIDENTIAL ADDRESS : Dr. Alphonsa Vijaya Joseph
Principal, St. Teresa's college, Ernakulam

FELICITATIONS : Dr. Sajimol Augustine
Senior Administrator
St. Teresa's college, Ernakulam

KEYNOTE ADDRESS : Prof. MOHAMED HATHA ABDULLA
TOPIC : Modern Trends in Research Methodology

VOTE OF THANKS : Dr. Thushara George
(Associate Professor, Dept. of Economics)

Presentation by research scholars

Patrons :
Rev.Sr. Vinitha CSST
(Provincial Superior and Manager)

Principal :
Prof. Alphonsa Vijaya Joseph

Rev.Sr. Emeline CSST
(Director)

Program Convenors :
Dr. Jaya T. Varkey
Dr. Thushara George

Organising Committee:

Dr. Priya K. Nair	Dr. Frincy Francis
Dr. Dhanya N.	Dr. Preethi Kumar
Dr. Leela P. U.	Dr. Santhi A.
Dr. Leena Leon	Dr. Saritha Chandran A.
Dr. Elsam Joseph	Dr. Minu Pius
Dr. Tania Vivera	Dr. Elizabeth Kuruvilla
Dr. Mariyam Thomas	Dr. Mariyam Thomsa
Dr. Tintu Jose Manicketh	Dr. Jeena Ann Joseph
Dr. Arya P. Mohan	Dr. Jisha John
Dr. Vinitha T. Tharakan	Dr. Arya P. Mohan
Dr. Tintu Jose Manicketh	Dr. Vinitha T. Tharakan



This was followed by a session for Ph.D. Scholars of the seven research centres of the college to present a brief review of their work in the presence of their respective external subject experts.

DEPARTMENT OF BOTANY AND CENTRE FOR RESEARCH ST. TERESA'S COLLEGE (AUTONOMOUS), ERNAKULAM

Report of Half yearly presentations of research scholars

External Examiner: **Dr. Stephen Siqueira.**, Assistant Professor and Research Guide

Dept. of Botany, Maharaja's College, Ernakulam

Date: 14th July 2023; Time 11. 30 am.

Details of Presentation of research scholars

Sl. No.	Name of Scholar	Title and abstract of Research Work	Name of Research Guide
1.	Thomas Antony	Ethnobotanical studies of plants used in the treatment of livestock diseases by selected tribes of Kerala Not Presented	Dr. Lizzy Mathew
2.	Haritha R. Nair	Plant diversity and microenvironment interaction studies of selected. Abstract: The studies on the plant diversity and micro environment interactions in the sacred groves shows various aspects of sustainable ecosystem conservation. Current studies include; Vertical tree layering pattern of selected groves, Exotic weed analysis, Disturbance analysis.	Dr. Lizzy Mathew

3.	I. K. Nishitha	Phytochemistry and Cytotoxicity of selected Rhodophytes of Kerala Coast. Abstract: Not given	Dr. Lizzy Mathew
4.	Sheba P. T.	Phytochemistry, Pharmacognosy and Biological Activity of Selected Species of <i>Annona L.</i> Abstract: The genus <i>Annona L.</i> from the family annonaceae, is commonly known as custard apple family with more than 130 genera and 2500 species. In spite of many modern approach, plant-based traditional plays an important role in discovering effective drugs. Recently a bioactive neutral compound, acetogenin from annonaceae family has aroused considerable interest. The aim of this study is to extract an acetogenin-rich fraction, using solvents with various polarities and their mixtures. LC-MS-MS screening from the selected species of <i>Annona L.</i> leaves identified the presence of acetogenin in the samples. These findings support the therapeutic potential of <i>Annona L.</i> leaves in the area of oncology drug discovery.	Dr. Elsam Joseph
5.	Juliya V. Devasia	Phytochemistry and Antioxidant potentials of selected species of plants used against cancer in Traditional Medicine. Abstract: Medicinal plants have been used for centuries and are used as a potential source of therapeutic drug. The phytochemical ingredients present in plants make them useful for medicinal purpose. Here we selected 6 highly potential medicinal plants (<i>Ocimum sanctum</i> , <i>Lawsonia inermis</i> , <i>Curcuma longa</i> , <i>Cadaba fruticosa</i> , <i>Leucas aspera</i> , <i>Ocimum basilicum</i>) showing high phytochemical properties and they used widely in various cancer treatments. Hydroethanolic extracts of these plants showed high antioxidant properties. Based on the antioxidant potentials of these plants, we selected <i>Curcuma longa</i> , showed comparatively good antioxidant potential. The effectiveness of Poly vinyl pyrrolidone as a stabilizing agent for increasing the efficiency of drug-loaded silver nanoparticles were examined.	Dr. Elsam Joseph
6.	Cynthia Michelle Dias	Phycosynthesis of Silver Nanoparticles Using Selected species of Phaeophyceae and its Pharmaceutical Potential Not Presented	Dr. Elsam Joseph
7.	Glaxy Esekil V.	Isolation and charectrization of plastic degrading bacteria from plastic polluted water samples of Ernakulam district. Abstract: Pollution refers to the addition of contaminants or pollutants into the environment which adversely affects the quality of the environment. Environmental quality depends on the quality of water and soil because of their importance in sustaining life. Ernakulam is a district of Kerala, India. Situated in the central part of that state. Spanning an area of	Dr. Romilly Margaret Mendez

		<p>about 2,407 km², Ernakulam district is home to over 12% of Kerala's population. Ernakulam district includes Kochi City, which is known as the commercial capital of Kerala. Plastic pollution is a major problem faced all over the world recently. Due to overpopulation in Ernakulam, the use of plastic remains higher extent. The concerned study is focusing on isolating and characterizing plastic-degrading bacteria from the plastic polluted water samples of the Ernakulam district.</p>	
8.	Athira R. K. Nair	<p>Phytochemical characterization and bioprospecting of <i>Medinilla beddomei</i> Cl.</p> <p>Abstract: The study aims to find out the anti-inflammatory potential of the acetone and methanolic leaf extracts of <i>Medinilla beddomei</i> and the leaf extracts are subjected to GC MS analysis for the phytochemical screening.</p> <p>In vitro anti-inflammatory studies</p> <ul style="list-style-type: none"> ☐ Protein degradation assay and proteinase inhibition assay. ☐ cyclooxygenase (COX2) and lipoxygenase activity (LOX) on RAW 264.7 macrophage cell lines. <p>GC MS analysis:</p> <p>A number of valuable secondary compounds are reported in the GC MS analysis of the acetone and methanolic leaf extracts of <i>Medinilla beddomei</i>.</p>	Dr. Elsam Joseph
9.	Akhila George	<p>Phytochemical Screening and Nutraceutical Potentials of Selected Species of Citrus in Kerala</p> <p>Abstract: Citrus is one of the most extensively produced fruit tree crops in the world. The genus Citrus belongs to the Rutaceae family. secondary metabolites are an important topic of the present research. Citrus fruits contain several secondary metabolites such as flavonoids, alkaloids, coumarins, limonoids, phenols, and essential oils. During these six months, silver nanoparticles were green synthesized using the aqueous extract of Citrus maxima (Burm.f.) Merr. fruit peel. The phytochemicals present in the fruit peel act as reducing agents. The silver nanoparticles were characterized by UV-Visible Spectroscopy, Transmission Electron Microscopy, Fourier Transform Infrared Spectroscopy, and X-ray Diffraction. UV-vis spectroscopy of the silver nanoparticles shows an absorption peak at 400 nm. The TEM analysis shows the spherical shape of the particle with size ranged between 10- 50 nm. FTIR studies confirmed the presence of different functional groups. Cytotoxicity and anticancer activity of the green synthesized silver nanoparticles was determined using the Mouse fibroblast cell line (L929) and human breast cancer cell line (MCF-7) respectively.</p>	Dr. Elsam Joseph

10.	Joycy Varghese V.	<p>Bioprospecting of selected varieties of Colocasia esculenta (L.) Schott.</p> <p>Abstract: ☞ In vitro anticancer study MTT assay was done in the methanolic leaf extract of Colocasia esculenta. A moderate anticancer activity was exhibited by all the four methanolic leaf extracts in Colon cancer cell line (HT 29) where methanolic leaf extract of Muktakesi showed comparatively higher activity in HT 29 cell line. So further detailed anticancer studies carried out in HT 29 cell line using methanolic leaf extract of Muktakesi.</p> <ul style="list-style-type: none"> • Flow cytometry cell cycle analysis • Flow cytometry apoptotic study <p>The LCMS profiling of methanolic leaf extracts exhibited valuable phytochemicals with therapeutic ability.</p>	Dr. Elsam Joseph
11.	Smitha Thomas	<p>Plant growth promoting Rhizobacteria of selected vegetables in Kerala and its molecular characterization.</p> <p>Abstract: In the current investigation, it was determined how to promote the growth of PGPR bacteria that had been isolated from agricultural soils in different areas of Kerala, India. The agar screening procedure was used to isolate the bacterium, which was then used in soil for production. Indole Acetic Acid (IAA) characterization and quantitative analysis by PGPR strains, high performance liquid chromatography for IAA analysis (HPLC), FT-IR analysis to characterise IAA, high performance thin layer chromatography for IAA estimation (HPTLC), and in vivo - protective effect of PGPR P80 on Solanum tuberosum (L.) (tuber) and Carica papaya (L.) (seeds) are all used. Analysis of the soil's pH, organic C, N, P, K, EC and Si. Effect of applied PGPR on growth of Amaranthus dubius (L.), Plectranthus rotundifolius (L.), Zingiber officinale (L.) and Solanum lycopersicum (L.). Statistical study was performed. Therefore, the PGPR isolated were anticipated to serve as an effective bio-fertilizer and strong plant growth promoter to boost the overall performance of crops.</p>	Dr. Lizzy Mathew
12.	Drisya K. Reghuvaran	<p>Bioprofiling and Bioassays of the genus Polygala, in south india.</p> <p>Abstract: Five species of Polygala were collected from various parts of Kerala . the molecular studies , RbCL, CoX, ITS of P. paniculata, P.arvensis, P.javana were conducted .</p>	Dr. Lizzy Mathew
13.	Mary Joseph	<p>Bioprospecting of selected Filicophyta (Feru) and biosynthesis of Nanoparticles using its extracts.</p> <p>Abstract: Benjamin and Manickam (2007) identified 61 medicinal Pteridophyte species of the Western Ghats of India</p>	Dr. Lizzy Mathew

		<p>as useful in traditional methods of treatment of various diseases like diabetes, rheumatism, asthma, etc. Although, the medicinal properties of Pteridophytes are recognized worldwide, the survey of previous work indicates that the medicinal plants especially the Angiosperms are given more importance and non-flowering plants particularly Pteridophytes are badly ignored. Very little extensive research has been done in the field and ferns have not been well explored for nanoparticle synthesis. The objectives and methodology to be followed are enumerated. The tentative work plan has been scheduled semester-wise. The progress so far has been mentioned. This includes course work (second spell) literature survey regarding the medicinal importance of various fern species, collection of specimens of selected species, preliminary morpho-anatomical studies of selected species collected in order to ensure proper identification. Phytochemical analysis and anti-oxidant activity of <i>Acrostichum aureum</i> has been carried out. A two day workshop on 'Natural Biopolymers and their Nanoparticle Conjugates: Potential leads as Pharmaceutical agents' organised by ICAR-CMFRI funded by DST-SERB was attended.</p>	
14.	Michael Thomas	<p>Ecological Assessment of the diversity of Vascular Flora of Ponthenpuzha – Valiyakavu forest area</p> <p>Abstract: The forest, a fascinating embroidery of nature's wonders, has captivated human imagination and curiosity for centuries. This study investigates the essence of the forest, encompassing its biodiversity, ecological importance, and profound impact on human well-being. Ponthenpuzha Forest includes three reserves, such as Karikkattoor, Alapra, and Valiyakavu Reserve. It encompasses a diverse range of habitats, including dense evergreen forests, dry deciduous forests, seasonal waterfalls, and snaky streams, creating a paradise for plant and animal life. Ponthenpuzha Forest has a role in preserving regional biodiversity, acting as a refuge for numerous threatened and endangered species. The forest provides critical habitat for diverse fauna, including many mammals, colourful birds, and amphibians. Additionally, Ponthenpuzha Forest plays a crucial role in watershed management, ensuring the availability of clean water resources for local communities and supporting downstream ecosystems.</p> <p>Now, Ponthenpuzha Forest is facing threats such as habitat fragmentation, encroachment, and unsustainable resource extraction that endanger its ecological balance. It emphasises the need for proactive measures, including stricter enforcement of protective regulations, raising awareness among stakeholders, and promoting ecotourism as a</p>	Dr. Krishnaraj M. V.

		sustainable alternative to destructive activities. By implementing robust conservation measures, engaging local communities, and raising awareness about its ecological importance, we can ensure the preservation and sustainable management of Ponthenpuzha Forest for future generations, securing its role as a sanctuary for nature's wonders.	
15.	Remya R.	<p>Reproductive Biological studies in selected Legume Tribes: Crotalariaeae, Indigofereae and Dalbergieae – Kerala</p> <p>Abstract: The aim of the present research is to study the reproductive biology of 3 endemic legumes in Kerala : <i>Crotalaria multiflora</i>(Arn.) Benth. <i>Indigofera constricta</i> (Thwaites) Trimen, and <i>Smithia venkobarrowii</i> Gamble. During the lasts six months . Survey ,collection and Floral morphology of <i>Crotalaria multiflora</i> was studied .</p>	Dr. Krishnaraj M. V.
16.	Gopika Suresh	<p>Studies on the reproductive biology, population ecology and conservation Sanjappa cynometroides (Bedd.) ER Souza et Krishnaraj (Leguminosae: Caesalpinioideae) from Southern Western Ghats, India.</p> <p>Abstract: Sanjappa cynometroides (Bedd.) ER Souza et Krishnaraj is a monotypic endemic legume tree that currently survives with only two populations in the Southern part of Western Ghats, Kerala. The species earlier listed under IUCN and categorized as Critically endangered. The closest relatives viz. <i>Viguieranthus</i> are located in Madagascar. The taxonomic identity of this enigmatic taxon was recently solved using morphology and molecular phylogeny, however reproductive biology and ecology are lacking. The known phytosociological elements associated with Sanjappa ER Souza et Krishnaraj are paleotropical and a thorough analysis of its habitat, distribution, niche requirement, pollination, dispersal, seedling recruitment and overall population structure is essential to understand more about endemism and its relationship in Leguminosae.</p>	Dr. Krishnaraj M. V.

Dr. Liza Jacob
Head of the Department

Dr. Elsam Joseph
Research coordinator of the Dept.

REPORT, DEPARTMENT OF CHEMISTRY AND CENTRE FOR RESEARCH

The Biannual research meet 2023-24 was organised by Teresian Research and Consultancy Cell (TRACC) on 14th July 2023 at Arts Block Auditorium. The resource person of first session was Prof. Mohamed Hatha Abdulla, Professor, Department of Marine Biology, Microbiology and Biochemistry, CUSAT. For the second session, which was dedicated to the presentation of half-yearly progress reports at respective departments, external expert Dr. Vijay John Gerson, the Head of the Department of Chemistry at St. Albert's College (Autonomous), Ernakulam, was present. During this session, research scholars Sicily Rilu Joseph and Shethal Elizabeth presented their respective half-yearly PhD progress reports.

Work Progress:

Sicily Rilu Joseph:

The work focus on synthesizing cellulose nanocrystals from Banana plants. Various pretreatment methods such as bleaching and alkali pulping were employed to remove non-cellulosic components, and subsequently, cellulose was extracted. The synthesis process involved subjecting the cellulose to controlled acid hydrolysis, which selectively broke down the cellulose into nanoscale particles, resulting in the formation of CNCs. These nanocrystals are of particular interest due to their unique properties and potential applications in various fields. To assess the success of the synthesis and understand the characteristics of the produced cellulose nanocrystals, a range of analytical techniques were utilized. The X-ray diffraction (XRD) analysis confirmed the successful formation of cellulose type-II. The Fourier-transform infrared spectroscopy (FTIR) results validated the removal of non-cellulosic components and confirmed the formation of cellulose. Transmission electron microscopy (TEM) studies further revealed the presence of cellulose nanocrystals. Additionally, selected area electron diffraction (SAED) provided evidence of an ordered crystalline arrangement, further supporting the formation of these cellulose nanocrystals.

Shetal Elizabeth Thomas:

Completed first spell of course work. During this time period literature review of the proposed PhD work titled "Extraction And Functionalization Of Natural Polysaccharides From Marine Plants And Study Of Their Physical, Chemical, Biomedical And Biodegradation Properties" was also carried out. Furthermore, participated in the following workshops and webinars:

Two days training programme on digital literacy by Mahatma Gandhi University Library on 25-26 May 2023.

Two day workshop on Natural Biopolymers and their Nanoconjugates: Potential leads as Pharmaceutical Agents organized by ICAR-CMFRI on 15-16 June 2023.

Refininf Scholarly Skills: A Comprehensive Workshop on Academic Writing and Publication Ethics organized by Department of Chemistry and Centre for Research, Baselius College, Kottayam on 06.07.2023.

Webinar on Open Access publishing organized by Teresian Research and Consultancy Cell (TRACC) on 13.07.2023

Dr. Vijay John Gerson actively participated in the session and inquired about the potential future directions for the research work. He also provided valuable inputs and suggestions to the researchers, encouraging further exploration and advancement of their research.

Half Yearly Progress Report (January to June 2023)

Research Department of Economics St Teresa's College (Autonomous), Ernakulam

The **Post Graduate Department of Economics**, St. Teresa's College, has ten research scholars with distinctive research topics. They presented a brief review of their progress in research in the presence of the external expert, Dr.M. S. Madhusudhanan Nair, Retd. Associate Professor, Dept of Economics Sacred Hearts College, Thevara. The session started at 12 pm, Dr. Anooa Jacob, Head of the Department of Economics delivered the welcome speech.

The research guides Dr. Nirmala Padmanabhan, (Retd. Professor, Dept. of Economics) and Dr. Thushara George, (Associate Professor, Dept. of Economics) was present for the presentation of research scholars. Every presentation was evaluated and valuable comments were given by the experts. The entire session was concluded at 1.30 pm and a vote of thanks was proposed by Dr. Thushara George, Associate Professor Department of Economics, St. Teresa's College.

The following Research Scholars under the Guidance of Dr. Nirmala Padmanabhan Presented a brief review of their progress in their respective research areas.

1. Naseera Kuttasseri: Topic- Gender Responsive Budgeting In Local Bodies in Kerala
2. Karthika K: Topic-Economics of Palliative Care- A Study On Cancer Related Home Based Care
3. Tresa Betsy: Topic –Geriatric Care services in Kerala; Pattern of Expenditure and Effectiveness of Institutional Mechanisms with Special Reference to Palliative Care
4. Aswathy M J: Topic– Generation and Management of Waste By Houseboats in Alappuzha District No major suggestions were made by the external expert and guides ,as two of them were at their analysis stage and others were doing a primary survey.

External Guide: Dr. Madhusoodhanan Nair M.S.

1. Scholar Name: Mary Clarat K.P. / Topic: Performance of Mutual Funds in India: A Scheme wise and Sector Wise analysis U/O No. 291/2019 613/AC A 10/2019/MGU
Research Guide: Dr. Thushara George Progress
*Regularisation orders issued. *Drafted first two chapters.
*Completed Secondary data collection and analysed the first objective of the study.
*Review of literature is going on. Review of the external expert External experts advised to read more about the topic in detail and also to find out the reasons for difference in the returns from sip Scheme and one time investment scheme.
*They also advised that a research scholar should be capable to answer each and every question related to her topic.

2. Scholar Name: Sudheesh P.N./ Topic: Market Concentration and Performance of Life Insurance Industry in India. U/O No : 289/2019, 613/AC A 10/2019/MGU.

Research Guide: Dr. Thushara George

- ❖ Next paper publication work is almost over
- ❖ Attending various Webinars
- ❖ Regularisation orders Completed
- ❖ Three Chapters completed

3. Scholar Name: Tom Pious / Topic : NBFCs In Kerala: A Study of Financial Penetration and Asset Liability Condition. U/O No. 290/2019,6613/AC A 10/2019/MGU

Research Guide: Dr. Thushara George

The major suggestions of the expert committee are the following

- ❖ The committee expressed overall satisfaction in the improvement made during the past six months.
- ❖ The difficulty in getting primary data from NBFCs was raised.
- ❖ The researcher was advised to look for various dimensions of the financial penetration and bank, NBFC relation.

4. Scholar Name: Pranaya S. Kumar Foreign Direct Investment: A Study on the Retail sector in India / U/O No. 292/2019613/AC A 10/2019/MGU

Research Guide: Dr. Thushara George

- ❖ Review of literature is going on.
- ❖ Data Collection Going on
- ❖ Conceptual clarification on some of the variables was suggested by the expert.

5. Scholar Name: ELJO JOSEPH T / Topic: An Empirical Analysis of Trends, Patterns and Impacts of Foreign Exchange Reserves in India / Registration U.O No.: 3861/AC A 10/2022/MGU Registration U.O Date: 13-04-2022 Registration No. & Year: 197/2021 Date of Joining : 27/4/2022 Commencement of CW: 4/5/2022

Research Guide: Dr. Thushara George

Comments

- ❖ Availability of data – Regarding data related to external debt, expert asked to check why data is not available before 2000. Specific reason must need and it should be included as note.
- ❖ Learn mathematical tools – For the convenience of analysis, a good understanding of various mathematical tools are necessary.



HALF YEARLY RESEARCH PRESENTATIONS 2023-24
Department of English & Centre for Research

Presentations Schedule

Date: 14 July 2023 Time: 11am onwards, AV room Library, Arts Block

Group 1

External Expert: Dr. Rajesh James, Assistant Professor, Department of English, Sacred Heart College, Thevara

Sl. no	Name of Scholar	Name of Supervisor	Title	Remarks
1.	Nayomi Rajan	Dr. Anitha R	Imagescaping in Urban Nature: Reimagining Urban Spaces in Select Fictional Narratives	
2.	Silja Roy	Dr. Anitha R	Literary Cartography in Territorial Dialectics: A Geo critical analysis of textual Representations of Fort Kochi	
3.	Saritha KV	Dr. Anitha R	Constructing the Gendered Subaltern: A study of Selected Works of Bhama	
4.	Roby Mathew	Dr. Anitha R	Sea Scaping the Self: An Eco Archetypal Reading of Herman Melville	
5.	Feneena S Mohamed	Dr. Anitha R	Aporia of the Mind ,Aphasia in the Text:A Neuroloinguistic Reading of Select Novels of Samuel Beckett	
6.	Jishnu Prasad	Dr. Anitha R	The Politics of Subversion:A cultural Critique of Arab Spring	
7.	Rekha E.	Dr. Anitha R	Constructing Nation and Gender: A Comparative Reading of Isabel Allende and Jamaica Kincaid	
8.	Sreelekshmi A. R.	Dr. Latha Nair R.	Theatre as therapy: The impact of Applied Theatre on students from Shelter Homes	
9.	Sebastian A.V.	Dr. Latha Nair R.	Between Frame and Liberal Space: A Reader Response Critique of K Satchidanandan and Ann Morgan	
10.	Akshitha Javahar	Dr. Tania Mary Vivera	Locating the African futurist : A Study of Select Science Fiction Works of Nnedi Okorafor	

11.	Steve Antony	Dr. Tania Mary Vivera	Exploring the Posthuman Gothic in Select Space Operas	
12.	Athira Subin	Dr. Jeena Ann Joseph	The Synthesis of Cognitive Narratology and Bibliotherapy: A Study of Select Fanfictions	
13.	Geethu Johny	Dr. Jeena Ann Joseph	The Geopolitical Chronicle of Asia: A Study of Select Works of Dervla Murphy	

Group 2

External Expert: Dr. Minu Susan Koshy, Assistant Professor, Department of English, Marthoma College for Women, Perumbavoor, Ernakulam

Sl. no	Name of Scholar	Name of Supervisor	Title	Remarks
1.	Anand K	Dr. Latha Nair R.	Learner Autonomy and LMS: an Experiential Study on Multimedia/Mobile assisted Teaching-Learning Pedagogy and Collaborative Learning in Kerala	
2.	Nuzhat Unneen	Dr. Priya K. Nair	Interrogating Postfeminism: A study of the media construction of select female celebrity image in India.	
3.	Chitra Tracy Johnson	Dr. Priya K. Nair	Politics of Narration in Select Writings by Arab Women	
4.	Chitra Sebastian	Dr. Priya K. Nair	Poetics of Banality: Study of Select Malayalam Fiction	Maternity Leave ABSENT
5.	Rose Taniya Joly	Dr. Priya K. Nair	The Politics of Erasure and Presencing: A Critical Enquiry into Select Dalit Texts in English Translation	
6.	Indu MS	Dr. Celine E.	Mythical Cyclorama: A Reading of Indian and Chinese Snake Myths	
7.	Camilla Diana B.H.	Dr. Tessy Anthony C.	Deconstructing Territories- An exploration on alternative sexualities on selected Post independence Indian English Theatre	
8.	Renjitha Reghunath	Dr. Tessy Anthony C.	Digital Literature and the Young Adult Fiction: A Study of Digital Media and the Multimodal Reading Experiences of the New	

			Age Readers with specific reference to Wattpad and Figment.	
9.	Sheelu Alex	Dr. Tessy Anthony C.	Re-negotiating Diasporic Identity: A Study of Select Novels of Amy Tan, Jhumpa Lahiri and Khaled Hosseini	
10.	Alicen Roshiny Jacob	Dr. Tessy Anthony C.	Gendered View of the Orient: A Study of the Nineteenth Century Travel Narratives by British Women on India	
11.	Dhinil Sen	Dr. Preeti Kumar	Of 'Sousveilled' Spaces and Catopticons: Reading Sousveillance in Contemporary Indian Narratives	
12.	Saiparvathy Rajesh	Dr. Preeti Kumar	A Question of Identity and Trauma in Select Life writings: A Study based on Logotherapy	
13.	Harsha Prince	Dr. Preeti Kumar	Destabilizing Meta-narratives: Mechanics of Archiving in Manu S. Pillai's Works	
14.	Divya S Hariharan	Dr. Tania Mary Vivera	Towards a Hybrid Instructional Framework: The Case of Enhancing Spoken English skills of OET Nurses from Kerala	

Reports of Half-Yearly Presentations 14th July 2023

Name of the scholar: **Nayomi Rajan**

Research Supervisor- Dr R Anitha

Topic: Imagescaping in Urbanature: Reimagining Urban Spaces in Select Fictional Narratives.

The research work explores the experiential realms of 'urbanature' and the networks of relationships embedded in the cityscape.

Progress: Submitted three chapters so far and now working on the fourth chapter which is about filmic narratives on Mumbai.

Suggestion by the external expert: To include the idea of 'assemblage' in the theory chapter. To add biographical accounts of the city by the authors selected. To give more thrust on the idea of lived space. To reconsider the number of works to be included in the study.

Name of the scholar: **Silja Roy**

Research Supervisor: Dr. R Anita

Topic: Literary Cartography in Territorial Dialectics: A Geocritical Analysis of Select Textual Representations of Fort Kochi

Progress: Finished the first 3 chapters. Working on the fourth chapter.

Suggestion by the external expert: to concentrate more on methodology and to be more focussed on the theory so as to have an in- depth analysis of the literary and non-literary texts chosen. To incorporate new concepts like "Contact Zone" and "creolization" to strengthen the arguments. To cull out the superficial statements and to make sure of the continuity of the flow of thought.

Name of the scholar: **Saritha K V**

Research Supervisor: Dr. R. Anitha, Associate Professor, D B College Thalayolaparambu.

Title: 'Representing the Gendered Subaltern Self : An Analysis of the Select Works of Bama and Emecheta'.

Progress: So far completed the chapters except the concluding one. Correction of chapters is now progressing. Today's session was really fruitful and got some valuable thoughts regarding the topic and the expert suggested some texts to add weightage to the arguments in the thesis. Suggestion by the external expert: The expert asked some important questions connected with the topic like, the relevance of choosing two authors who are different in milieu and culture. Thanked for the session.

Name of the scholar : **Roby Mathew**

Research Supervisor: Dr. R. Anitha

Title: Seascaping the Self: An Eco-Archetypal Reading of Herman Melville

Name of the external expert: Dr. Rajesh James

Suggestion by the external expert: The archetypal criticism applied in the research work forms the formal aspect of a work and ecocriticism which is also a parallel literary theory can be applied in the content of the formal structure of the novels selected for study. The expert also opined that the similarities of both archetypal and ecocritical literary theories can be unearthed to strengthen the structure of the research work.

Name of the scholar: **Jishnu Prasad**

This thesis is about the cultural critique of Arab Spring in the select novels of Yasmine El Rashidi, Basma Abdel Aziz and Benyamin. Presented the ppt before Dr. Rajesh James sir today. Completed four chapters and working upon the fifth.

Suggestions by the external expert: Incorporate methodology and hypothesis as a chapter itself. Restrict the geography to one country.

Name of the scholar - **Rekha E**

Title: Constructing Nation and Gender: A Comparative Reading of Isabel Allende and Jamaica

Kincaid

Chapters completed: Four

Progress of work: Corrections of the first four chapters are going on.

Suggestions by the external expert: The expert commented on the importance of sticking on to a basic theory without diverting too much. The theoretical aspect has to be taken care of while writing the chapters.

Name of the research scholar: **Sreelekshmi A. R.**

Research Supervisor: Dr. Latha Nair R.

Title:-Theatre as Therapy: The Impact of Applied Theatre on Students from Shelter Homes

Work done so far: cleared coursework examination

The shelter home is now closed. Therefore, applied for a title change.

Comments/suggestions of the external expert: to alter methodology

Name of the scholar: **Akshitha Javahar**

Topic: Locating the 'Africanfuturist': A Study of Select Science Fiction Works of Nnedi Okorafor

Research Supervisor: Dr. Tania Mary Vivera

Synopsis

The research aims to study the role of the Nigerian-American author, Nnedi Okorafor within the genre of Science Fiction (SF) and how she brings the African continent to the forefront of her works. Following an African-centric approach to the writing of science fiction, Okorafor challenges the Euro-American centrism of SF as well as the colonial underpinnings of the genre. However, the study also attempts to show how Okorafor's works also go beyond merely being a critique of colonialism to capture the cultural diversity of the African continent, including its myths and belief systems, its problems and hope for a better future. The study also focuses on defining and developing the term "Africanfuturism" coined by the author.

Drawing from the theoretical perspectives of Postcolonialism, science fiction criticism and the African literary tradition, the research is an attempt to understand the complexity and depth of Okorafor's writing.

Progress of Research:

Coursework completion and close reading of primary texts

Library visits for the collection of data.

Attended 'One Week Workshop on Research Methodology in Humanities' conducted

by the School of Letters, Mahatma Gandhi University, from 24th-29th of April, 2023.

Suggestions by the External Expert

External Expert: Dr. Rajesh James, Assistant Professor, Department of English, Sacred Heart College (Autonomous), Thevara.

To read previous studies on Nnedi Okorafor and to classify them based on their research areas.

To narrow down the research's focus and modify it, based on the research gap.

Name of the Scholar: **Steve Antony**

Research Supervisor: Dr. Tania Mary Vivera

Title of research: Exploring the Posthuman Gothic in Select Space Operas

Progress in research:

1. The work done by the researcher includes reading of the core texts, visiting libraries and data collection.
2. The researcher has attended the Research Methodology Workshop conducted by the School of Letters, M.G, University.
3. The researcher has attended the Theory Praxis Course in Research Methodology, Research Ethics and Advanced Contemporary Theories conducted by Bharata Mata College.

Suggestions of the external expert:

Dr. Rajesh James, the external expert suggested research on the topic from a single perspective with more depth as opposed to a multiple perspective approach that would result in surface level interpretations and undue complications. He recommended Asia-centric Science Fiction novels and specifically to select the texts based on their geographical and cultural significance. The final suggestion he made was to look into Science Fiction works connected to or rooted in Hong Kong geographically and/or culturally.

Name of the scholar: **Athira Subin**

TITLE: The Synthesis of Cognitive Narratology and Bibliotherapy: A Study of Select Fanfictions

GUIDE: Dr. Jeena Ann Joseph

Assistant Professor,

Department of English and Centre for Research,

St. Teresa's College, Ernakulam

SYNOPSIS: The rudiments of this study emerged out of a desire to discern a meeting ground between literature and well-being, that is to understand the relevance of literature in terms of human existence. The work aims to unveil the true potential of the genre of fanfiction as a means for its practitioners to develop strong psychological coping mechanisms, strategies and resilience to face everyday life. It explores the psychotherapeutic power of fanfictions to

mentally equip its enthusiasts to overcome the fatal strikes of depression, anxiety, trauma, bereavement and the like.

By using the conceptual frameworks of cognitive narratology and bibliotherapy, it will be able to analyse the social and most importantly, psychological and emotional motives that prompt certain writers and readers to specifically choose the storytelling medium of fanfiction, to artistically express and identify the hidden facets of their personality while consciously or unconsciously engaging in psychotherapy. This way, insightful glimpses can be gained on the creative generation of fanfiction as a vehicle for attaining psychological sublimation and escapism for bridling excruciating mental agony.

RESEARCH PROGRESS: Course work, visiting libraries, data collection and attended a one and a half months theory-praxis course in “Research Methodology, Research Ethics and Advanced Contemporary Theories” conducted by BMC, Thrikkakkara and Prajna Foundation.

SUGGESTIONS BY EXTERNAL EXPERT: To expand the research work to include the concept of medical humanities.

Name of the scholar: **Geethu Johny**

TITLE: The Geopolitical Chronicle of Asia: A Study of Select Works of Dervla Murphy
Four FDP's on research methodology along with the study of core texts were conducted during the course of the initial three months of the course work.

The external expert suggested rethinking the title of the study.

Name of the scholar: **Anand K**

Topic: Learner Autonomy and LMS: an Experiential Study on Multimedia/Mobile assisted Teaching-Learning Pedagogy and Collaborative Learning in Kerala.

Brief report on work done during the period:

- Cleared coursework examinations in Nov. 2022 (85% Marks).
- Pilot experiments conducted among different sample groups
- A collection of fairy tales by sample populace published in March, 2023
- An anthology of short stories in Translation by sample populace published in April, 2023

Suggestion by the expert:

Dr. Minu Susan Koshy was appreciative of the research activities carried over the last six months. Especially the publication of writings of the sample populace. She was keen to know the rationale behind choosing fairy tales and wanted to know if a western concept like that would appeal to our rural learners.

Dr. Minu was also satisfied with the efforts taken by the researcher to submit his research experiments for publication and presentation in leading platforms.

She suggested extending the research experiments to heterogeneous groups (esp. the rural populace) for a judicious conduct and outcome. The researcher reassured her that it is part of the plan.

The Report (with amendments over progress, if any) shall be submitted for signatures from the external expert, the research supervisor and the Principal, after 31 Aug.2023 (Wherein the Researcher's fourth half-yearly tenure will logically come to an end).

Name of the scholar: **Nuzhat Unneen**

Title: Interrogating Postfeminism: A study of the media construction of select female celebrity images in India.

Work done so far: Chapter constructions are over. Bibliography is pending.

Chapters Completed: 6 chapters including Introduction and Conclusion are finished.

Comments of the external expert: asked to mention post-truth and to have a precise structuring of the female celebrity images.

Name of the scholar: **Chitra Tracy Johnson**

I presented my XIIIth Semester Half Yearly progress on 14th July, 2023. The External Expert was Dr. Minu Susan Koshy, Assistant Professor, Department of English, Mar Thoma College for Women, Perumbavoor, Ernakulam.

My research period ended on February 28, 2023. I have been given an extension for one year from March 1, 2023 to February 29, 2024.

My working thesis title: Politics of Narration in Select Writings by Arab Women

Work Progress: Completed the first draft of all my core chapters. During the past months I have been reworking and editing the same. I also conducted an online interview with Kamin Mohammadi, the author of Cypress Tree .

Comments/Suggestions by External Expert:

1. To explore how the primary authors negotiate their identities in the memoirs.
2. Explore more about self-writing
3. Bring in theories about memory studies and trauma.

Name of the scholar: **Rose Taniya Joly**

Title of Research Work : The Politics of Erasure and Presencing: A Critical Enquiry into Select Dalit Texts in English Translation

Brief report on work done during the period:

a) Participated in the National Seminar on “Rescripting Culture: From Humanism to Posthumanism” organized by the Department of English and Centre for Research, St. Teresa’s College (Autonomous), Ernakulam on 16th Decemeber 2022

b) Working on an article

c) Consolidating data and working on Introduction and Chapter 1

Comments by External Examiner:

a) Works to refer:

i. Pradeepan Pambirikunnu: “What did Literary Histories Say to You?”

ii. Sonja Thomas: Privileged Minorities

iii. Susan Viswanathan: The Christians of Kerala

iv. Sonja Thomas et.al.: From Chattas to Churidhars

b) Concepts/ terms to refer:

i. Corporeality

ii. Deleuze and Guattari: Minor literature

Name of the Scholar:- **Renjitha Reghunath**

Supervising Guide :- Dr. Tessy Anthony C.

Title :- Digital Literature and the Young Adult Fiction: A Study of Digital Media and the Multimodal Reading Experiences of the New Age Readers, with Specific Reference to Wattpad and Figment.

Synopsis:- The research involves the analysis of multimodal readership of young adults within wattpad by focusing on specific subgenres within the platform . Methodology employed is a mixed methodology that uses inductive reasoning as well as content analysis and survey.

Work done so far:- Core chapters have been submitted. Reworking on the second chapter(draft). Questionnaire is being modified.

Chapters Completed: - Drafts of the first chapter, third and fourth. Reworking on the second chapter.

Suggestions: to redefine the target respondents for the survey and to include global as well as pan Indian users of wattpad for this survey.

Name of the scholar: **Sheelu Alex**

Title: Re-negotiating Diasporic Identity: A Study of Select Novels of Amy Tan, Jhumpa Lahiri and Khaled Hosseini

Work Done So Far: Completed Pre-Ph.D Presentation on 2nd June, 2023

Suggestions/ Comments of the External Expert:

Check out the views of Latin American critics on decoloniality

Read up more on the idea of 'glocality'

Name of the scholar: **Alicen Roshiny Jacob**

Research Supervisor : Dr. Tessy Anthony C.

Topic - Gendered View of the Orient: A Study of the Nineteenth Century Travel Narratives by British Women on India

The research involves the analysis of the travel narratives by British women who arrived in India during the nineteenth century in various capacities, such as wives of officers, missionaries, travellers etc. using the lens of gender and postcolonialism.

Progress: Work on chapter 2 and 3 are underway.

Suggestions: to do an analyses of the negotiation of identity in the public and private sphere and to analyse the element of domesticity as reflected in the works .

Name of the scholar: **Dhinil Sen**

Research Supervisor: Dr. Preeti Kumar

External Examiner: Dr. Minu Susan Koshy

Research Area: Sousveillance Studies

Research Topic: Of 'Sousveilled' Spaces and Catopticons: Reading Sousveillance in Contemporary Indian Narratives.

Introduction

The concept for the dissertation was taken from Jeremy Bentham's notion of the Panopticon from *The Panopticon Writings* (1787). From this beginning of the traditional view of the panopticon, a movement is required to understand sousveillance to its fullest. Sousveillance is an all inclusive surveillance. It is the democratisation of surveillance brought forth from the inverted idea of panopticon.

Rationale

The study strives to understand the place of sousveillance in modern society, along with its utility and preferences with respect to India. The aim of collective consciousness and how it works in society also merits further study.

Objectives

The objective laid down stresses on the importance of understanding that one surveillance is technically many sousveillances collectively. The research also caters to the idea of many catopticons. Sousveillance shall be studied closely related to gender, caste and class with the help of real life narratives, literary and visual media as well as its presence in the field of information technology.

Methodology

The methodology of the research starts with analysing literary texts and visual media. Real and the reel are observed and analysed. Theorists like Jeremy Bentham, Michel Foucault, Giorgio Agamben and Zizek are brought in to introduce a theoretical framework. Collective mentality and responses, mainly from news, events and incidents shall be studied in detail.

Progress

1. Analysis of visual media was done.

Certain films in the Indian context were selected to be analysed to provide nuanced perspectives.

Vikruthi, Leila, Kappela, Keedam, Puthiya Niyamam, Chathur Mukham, and Operation Java were the few.

2. Close reading was done to analyse selected texts within the bibliography.

- Agambens' *State of Exceptions* was studied in great detail. The same was presented during the first monthly presentation session at the center.
- Agambens' *Homo Sacer: Sovereign Power and Bare Life*
- Bentham's *The Panopticon Writings*
- Dan Browns' *Digital Fortress*

3. Monthly Presentations

Currently working on tracing history and to situate the research in the Indian context. Some life narratives to examine the transition of surveillance to sousveillance would be from the periods of unrest - Emergency, etc.

Top identify the threshold of emergent surveillance and sousveillance.

Work also needs to be done to form a theoretical framework in the Indian context.

4. Webinar/Seminars.

- Research Methodology, Research Ethics and Advanced Contemporary Theories - (70 hours) - Bharata Mata College, Thrikkakara & Prajna Foundation

- Prepared reports on four sessions - three on Developments in Critical Theory and one on Research Methodology and Ethics.

5. PG Classes.

Engaged session for two batches of PG students for two papers respectively.

- Guy Debord's The Commodity as Spectacle
- Samuel Beckett's Waiting for Godot

Feedback

Suggestions were brought forward to expand the list of visual narratives to include Kerala Crime Files, Pachuvum Athbutha Vilakkum. Further, issues of widespread interest and how media and the public react to it with respect to sousveillance stemming from surveillance needs to be checked. The theory of necropolitics needs to be read.

Name of the scholar: **Sai Parvathy I R**

Date of Presentation : 14 July 2023, Research Meet 2023-24

Register Number: 253/22

Name of the Research Guide: Dr.Preeti Kumar

Assistant Professor and HoD

Department of English

St.Teresa's College,Ernakulam

Name of the External Expert : Dr.Minu Susan Koshy

Assistant Professor

Department of English

Mar Thoma College for Women

Perumbavoor, Ernakulam,Kerala

Tentative Research Topic Title: A Question of Identity and Trauma in Select Life Narratives:

A

Study Based on Logotherapy

Brief Report: A presentation was done on the research area to highlight the progress of the research work from the research period April 2023 to July 2023 .Historicity of Trauma

Studies,Theoretical

Approach, Research Gap and the Scope for Logotherapy were the key area of the

Presentation.The External Expert Dr.Minu Susan Koshy appreciated with the following remarks:-

Good Presentation

In Depth Reading

Vocabulary can be Simplified

Suggestions Made: -

Justify Life Writings and narrow down the core texts of the active research into three numbers

with a uniform setting and background.

Name of the scholar: **Harsha Prince**

Topic: De-Stabilising Meta-Narratives: Mechanics of Archiving in Manu S. Pillai's Works
Research Supervisor: Dr Preeti Kumar

Synopsis

During the past few months, I have been engaged in a coursework period where I focused on various academic tasks. Additionally, I dedicated time to attend a one-month-long workshop on research methodology, research ethics, and contemporary trends in literary research. This workshop allowed me to expand my knowledge in these areas and provided valuable insights into conducting effective research. Moreover, during this period, I identified specific research gaps that require analysis to formulate a well-defined research question. These activities have contributed to my overall understanding and preparation for conducting comprehensive and impactful research in my field of interest.

Suggestions from the external expert

After seeking guidance from an external expert, I received several valuable suggestions to enhance my research. Firstly, it was recommended to include more writers in the analysis, expanding the scope of my study. To further enrich my understanding of the topic, I was advised to extensively read academic articles related to my research area. In terms of theoretical frameworks, the expert suggested adopting New Historicism as the primary theory, complemented by incorporating elements of reader response and a comparative approach. Furthermore, the expert emphasizes to focus on terms such as 'Meta-Narratives' and 'Archiving' in the title of my research. These recommendations provide me with a comprehensive framework to strengthen and refine my research, ensuring its depth and scholarly impact.

Name of the scholar: **Divya Hariharan**

Supervisor: Dr. Tania Mary Vivera

Topic: Towards a Hybrid Instructional Framework: The Case of Enhancing Spoken English Skills of OET Nurses from Kerala.

Work Done so far (march 2023 to July 2023): Visited OET training institute (IRS Kottayam) to understand how onsite classes are conducted.

Observations: (1) Onsite classes are entirely different from online classes where candidates are engaged for an hour and a half for each skill i.e., listening, reading, writing and speaking from 10.00 am to 4.00 pm each day.

(2) There is no assessment test conducted for registration before admission.

(3) Registered candidates are grouped directly into beginners' batch (1 week. -1st group)

After one week they get promoted to Intermediate batch (2 weeks-2nd group). A test is conducted. If they score below 300, they are placed into remedial group (3rd group).

Candidates who pass the test are placed under Pre exam group (4th group-3 weeks). Then they

get promoted to the final group – Exam group. The training methodologies adopted are different in each group.

(4) In addition to the various groups in which the candidates are placed and trained, there is another group called the Repeaters group (5th group) comprising the candidates who have taken the exam before and did not succeed. These candidates are from IRS and also from other OET training institute.

(5) Prepared an observational checklist for speaking and listening skill which is yet to be authorised.

Workshops/Conferences attended and libraries visited

(1) Workshop on Research methodology conducted by School of Letters, MGU from 24/04/2023 to 29/04/2023.

(2) 3-day International virtual conference on Nuances in Social Science Research Methodology, Academic Writing and Reference Management: An Exploration, organised by St. Joseph college of teacher education for women, Ernakulam. SJCTE from 17/04/2023 to 19/04/2023

(3) One month workshop on Literary studies conducted by Bharat Mata college, Thrikkakara (Based on Paper II of course work) from 08/05/2023 to 05/06/2023.

(4) Attended webinar on Inclusion and Diversity in the Classroom on 15/03/2023 by British Council.

(5) Attended a symposium on Teaching Excellence and Relevance: A New Era of Teaching and Learning on 04/05/2023 by Zamit.

(6) Visited EFLU library, Hyderabad from 17/5/2023 to 19/5/2023.

Comments/Suggestions

(1) Sample should be heterogenous.

(2) The number of institutes considered for the study can be increased (since only one institute was targeted) to get better results. (Include institutes from rural as well as urban area)

(3) Include both the genders (male nurses and female nurses) for the study.





Department of Homescience

PHD RESEARCH PRESENTATION – HALF YEARLY

January 2023- June 2023

The half yearly presentation of research scholars under the **Department of Home Science**, St. Teresa's College, Ernakulam was conducted on 14/07/2023 at 11:30 am. Listed below are details of scholars. The first batch was evaluated by a panel with Dr. Megha Thampy the external expert, Dr. Dhanya N as internal expert and Dr. Susan Cherian as the chair person.

Batch 1

SLNo.	Name of the scholar	Title	Supervisor	Remarks
1	Nimmi Jacob	Screening and Extraction of pigments from plant sources and its food application	Dr. Shilpa Jose	Present
2	Ani Thomas Thottan	Vitamin D status and its health impact on Women	Dr. Anu Joseph	Present
3	Anitha Begum A S	A Comparative study on the Quality of Food provided in Food Outlets and Households in Malappuram District in Kerala and the Association with Lifestyle Diseases	Dr. Anooja Thomas	Present
4	Arathi Amarnath. M	Multidimensional health behaviours related to screen-time use among adolescents	Dr. Shilpa Jose	Present
5	Sr Elizabeth Joseph	Effectiveness of indigenous iron supplements and nutrition education among anemic college girls (18-23 years) in kottayam district	Dr. Betty Rani Isaac	Present
6	Najma Chokli	Development and evaluation of nutricookies designed for type 2 diabetes and impact on intervention	Dr. Anooja Thomas	Present

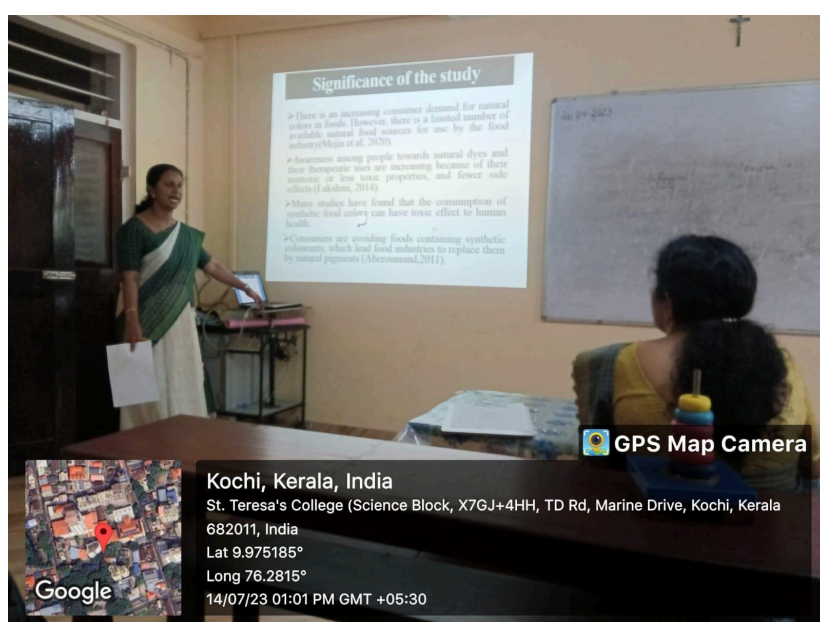
7	Neethu Ravikumar	Comparative study on the Maltese cross pattern of starch granules of selected rice varieties	Dr. Anooja Thomas	Present
8	Ms. Priyanka P S	Identification of bioactive components of edible cashew nut testa and development of nutraceutical	Dr. Betty Rani Isaac	Present
9	Rajimol K.C	Nutritional profile, Nutritional KAP and performance level of female athletes of 18-23 yrs of MG university and affiliated colleges	Dr. Anooja Thomas	Absent
10	Rose Mary Francis	Housing Needs Concerns and Problems of Elderly - A multifaceted study	Dr. Anooja Thomas	Present
11	Binu Emmanuel	Development of value added products using selected millets and its popularization	Dr. Anu Joseph	Absent
12	Minu Mathews	Factors Determining the Convenience Food Purchase Behaviour and it's Impacts- An Exploratory Study	Dr. Leena Leon	Present
13	Teena Kurian	Food safety and food hygiene practices of outdoor catering units in Kottayam District, Kerala	Dr. K. S. Kumari	Present
14	Teresa Kuncheria	Emotional Intelligence and factors contributing to resilience of weavers in the flood affected units of Chendamangalam Handloom	Dr. Thara Sebastian	Present
15	Renu K Abraham	Prevalence of hypothyroidism among adult cardiovascular patients and the dietary recommendations for them	Dr. Leena Leon	Present

A brief report on all the presentations are given below:

1. Name: Nimmi Jacob

Title: Screening and extraction of selected plant sources for pigment extraction and its food applications.

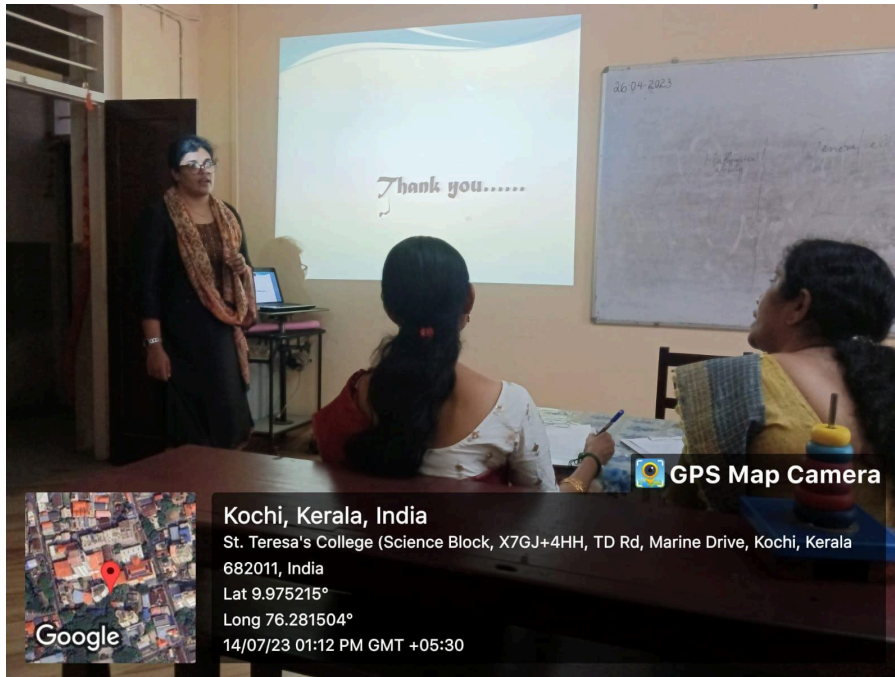
Report: The scholar has presented her study specifying the objectives and methodology followed by the work done so far. She had stressed upon the number of samples screened for food pigment extraction and has done food application study of the selected natural pigments. The scholar has attended ReAP - Research advancement programme during the period.



2. Name: Najma Chokli

Title: Development and evaluation of nutricookies designed for type 2 diabetes and impact on intervention.

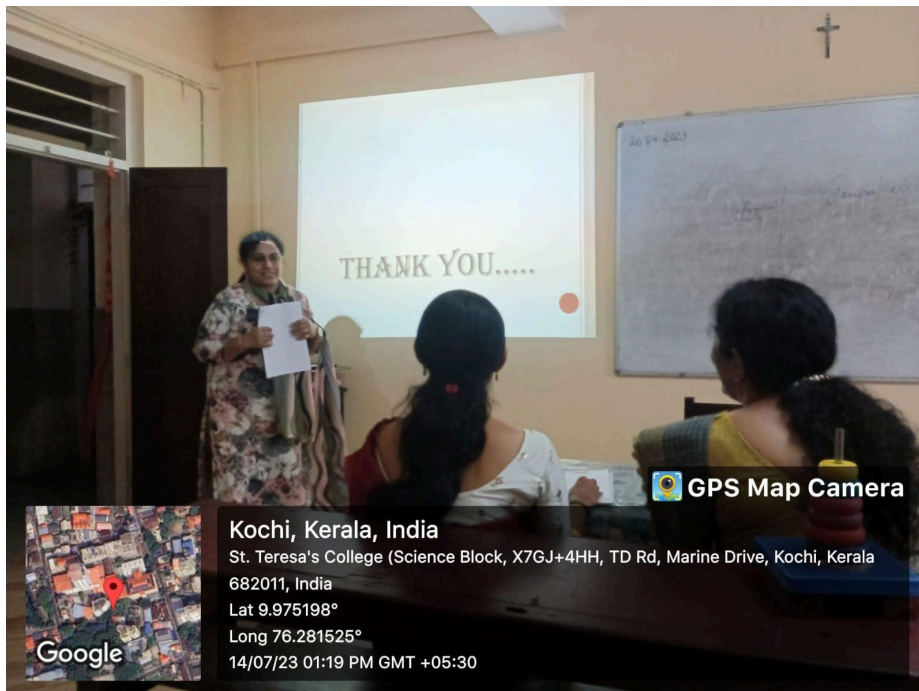
Report: The scholar has presented the progress of her study for the last six months on the topic prevalence of type 2 diabetes and impact on intervention. The scholar has developed a handbook on diabetes for intervention. The review and data collection is going on.



3. Name: Anitha Beegum

Title: A Comparative study on the Quality of Food provided in Food Outlets and Households in Malappuram District in Kerala and the Association with Lifestyle Diseases

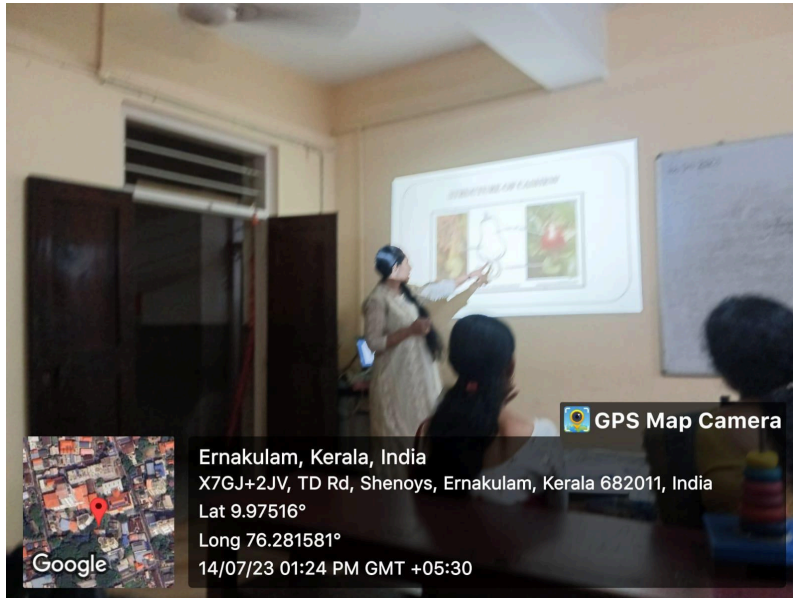
Report: The scholar has presented the progress of her study for the last six months on the topic. The external gave some insightful comments and suggestions which is really helpful for the completion of the study.



4. Name: Priyanka P.S

Title: Identification of bioactive components of edible cashew nut testa and development of nutraceutical

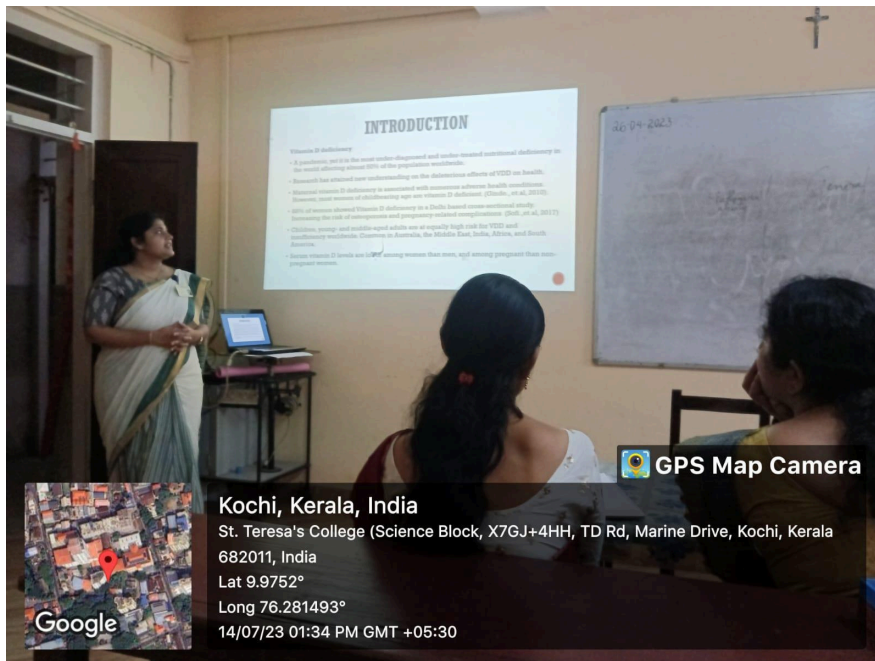
Report: The report included results of phase 1 and phase 2 of the research design. No suggestions were given by the external examiner except a query on in vivo toxicity analysis.



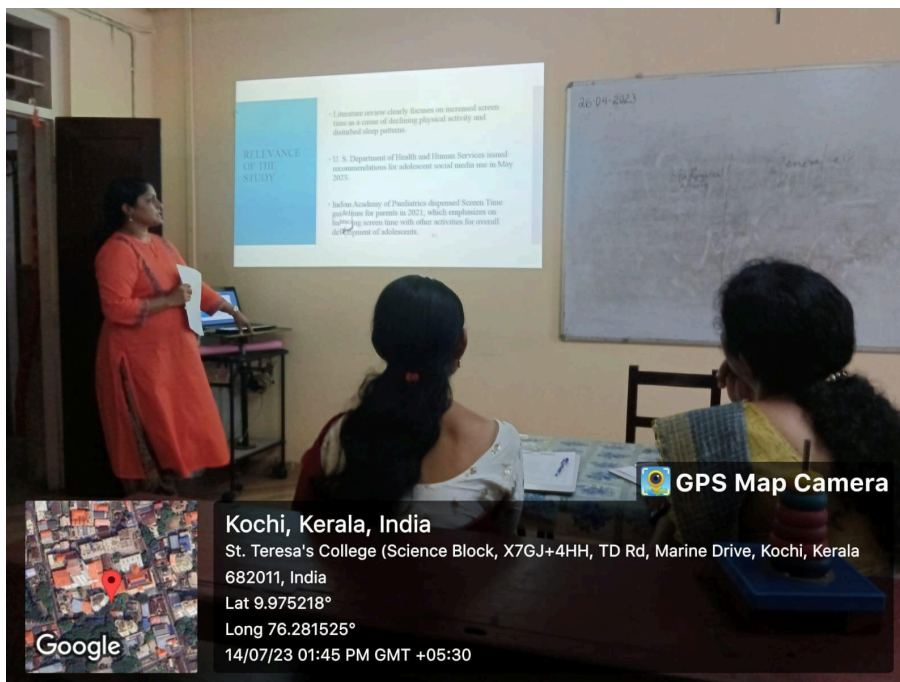
5. Name: Ani Thomas Thottan

Topic: Vitamin D status and its health impact on women

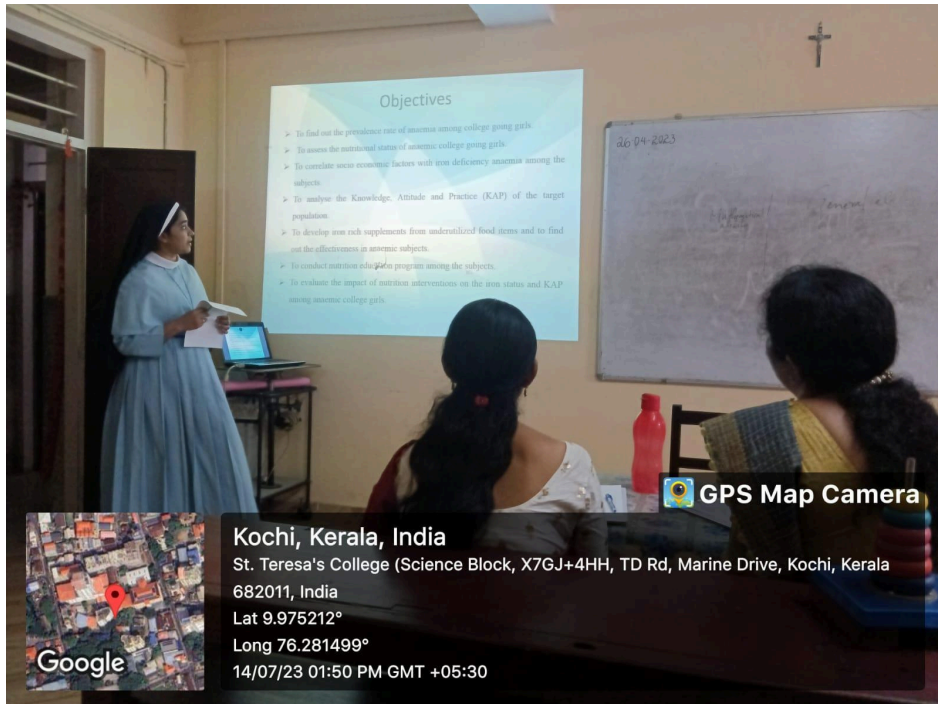
Report: Presented the half yearly progress of the study. Currently data collection is going on and once completed compilation and tool for intervention will be developed. The external gave suggestions on biochemical analysis and writing of methodology.



6. Name: Arathi Amarnath.M
 Title: Multidimensional Health Behaviours Related to Screen -time Use Among Adolescents
 Report: Secured A+ in course work exam, Pilot study initiated.



7. Name: Sr. Elizabeth Joseph
 Title: "Effectiveness of Indigenous Iron Supplements and Nutrition Education among Anaemic College Girls(18-23years) in Kottayam District. "
 Report: 2nd spell course work was completed. Collected and prepared review of Literature. Preparing for ethical clearance. Preparation and standardization of questionnaires are progressing. Development of Iron supplements and fortification stages are progressing. No corrections received.



8. Name: Neethu Ravikumar

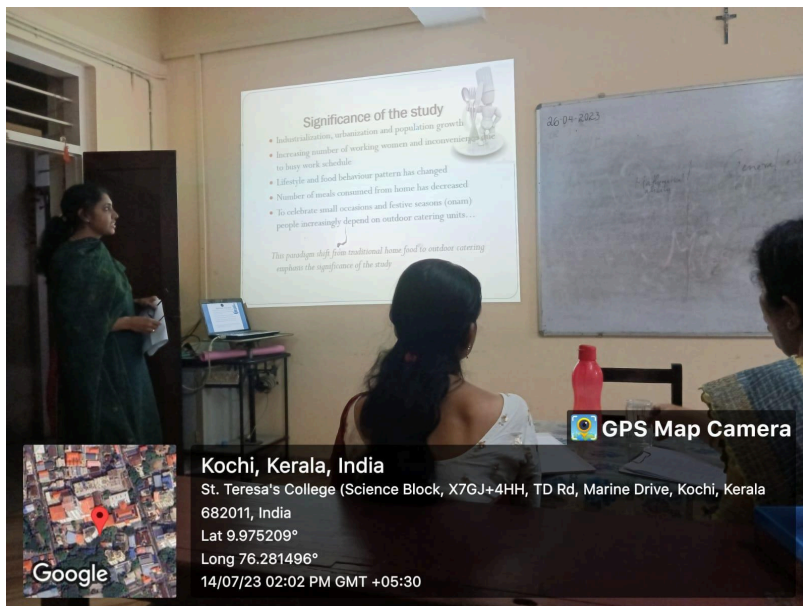
Title: Comparative study on the Maltese cross pattern of starch granules of selected rice varieties

Report: Completed analysis and introduction, review and methodology. Writing Results and discussion. Published three papers and two presentation

9. Name: Teena Kurian

Title: Food Safety and Food Hygienic Practices of Outdoor Catering Units in Kottayam District, Kerala

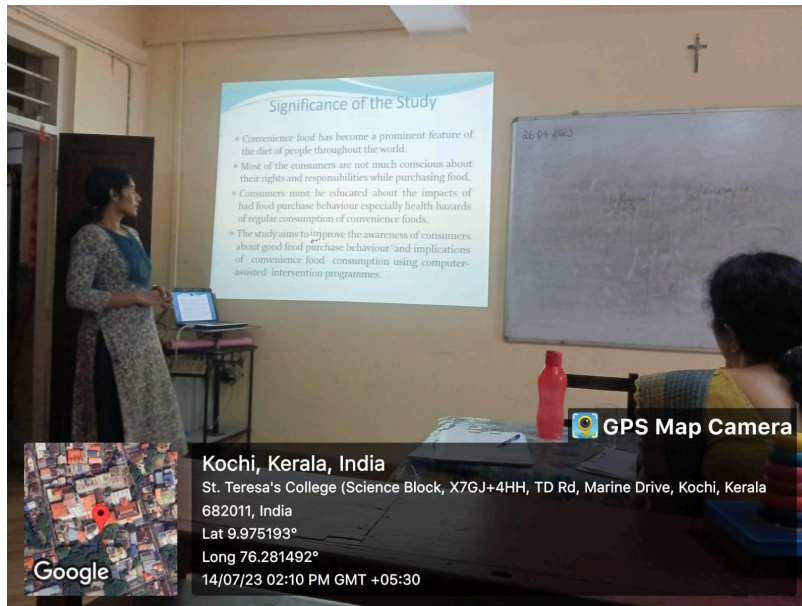
Report: Completed swab test. Statistical analysis on going. Writing in progress.



10. Name: Minu Mathews

Title: Factors Determining the Convenience Food Purchase Behaviour and it's Impacts- An Exploratory Study

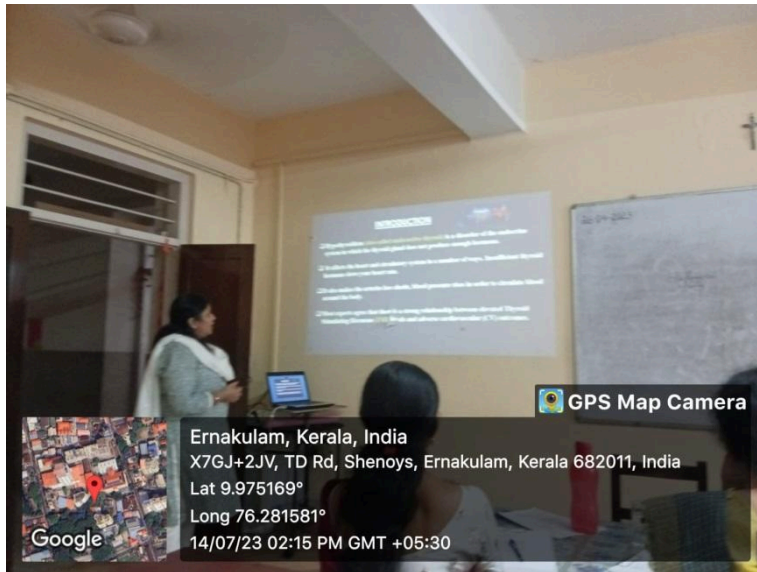
Report: Phase I and II have been completed, the statistical analysis is being conducted. Intervention programme has been conducted and writing is in progress.



11. Name : Renu K Abraham

Title: Prevalence of hypothyroidism among adult cardiovascular patients and the dietary recommendations for them.

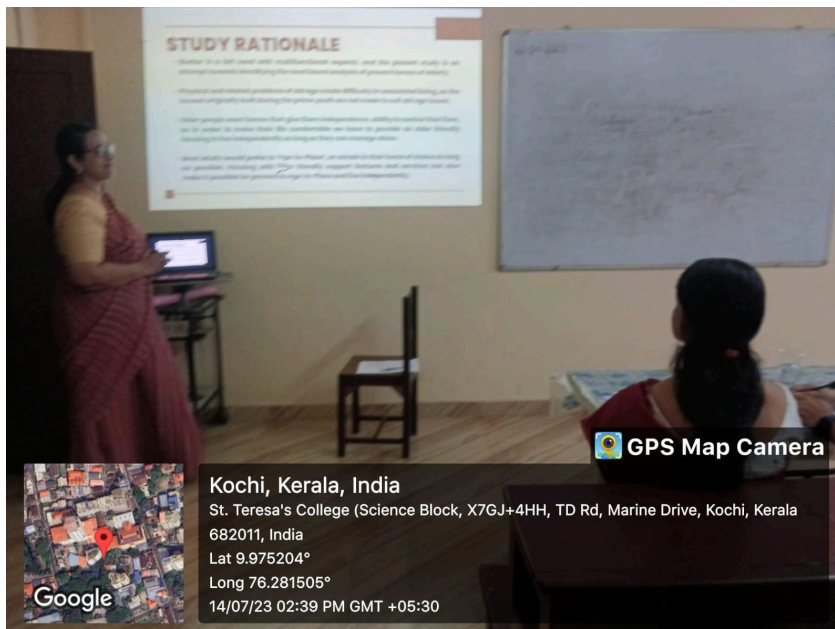
Report: Completed course work 2nd spell. Collecting Reviews from various studies and started Data Collection . Got clearance certificate from Institutional Ethical Committee. Presented a Paper on A Cross-sectional Pilot Study On Hypertension Among Adults And Introduction Of Rainbow Diet Among Them, on MESMAC International Conference -A Complete Academic Carnival Of Food, on 17,18,19 January 2023.,Malapuram .Attended seminars / webinars and FDPs on the topic Research Methodology. Published a book as a co-author "BLACK Rice : a Miracle Food In The Modern Era,June 2023,ISBN, Number 978-93-95235-30-3,by Apsorb Publishers , Kottayam. Taken classes as a resource person on Value Added Foods On Millets And Its Impact On Global Security ,On June 7th 2023,organized by Department of Food Safety, Kottayam, Gov of Kerala. Submitted assignments on papers1, 2,3 and 4.



12. Name: Rose Mary Francis

Title: "Housing needs, concerns and problems of the Elderly - A Multifaceted study" under the

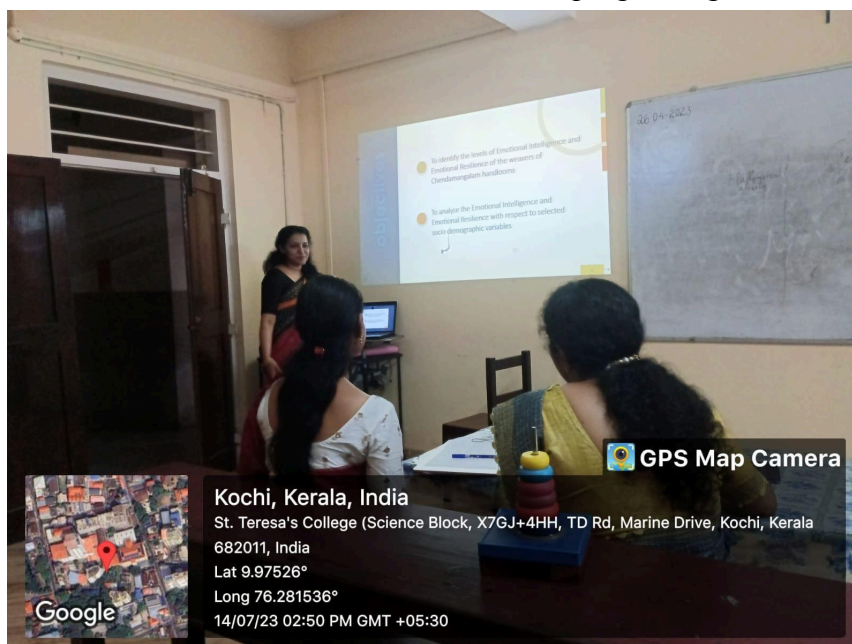
Report: The scholar have completed the tabulation, research discussion and statistical analysis of both Phase 1 and 2 and writing of the chapters is going on. Phase III- Elder friendly guidelines booklet and the designs developed for "Elder-friendly Life Space" is given for evaluation. Published a paper in IJCRT, titled: "Residential Care of Elderly : Issues and Challenges in a Rural Locale" (Reg.ID: IJCRT_237180, Paper ID: IJCRT2307138, dated July 2023). Applied for pre synopsis viva and 2nd extension of the research period.



13. Name: Teresa Kuncheria

Title: Emotional intelligence and factors affecting resilience of weavers in the flood affected units of Chendamangalam handloom.

Report: study has progressed. The social support scale has been validated and the other scales are ready to do the pilot study. The source book of design for weavers is 75 percent complete and the training manual is in progress, the secondary data collection for the same is over and the work progressing.



The presentations were complete by 3:30 pm. The scholars were able to evaluate the progress of their study and to enhance the research based on comments by experts.

PHD RESEARCH PRESENTATION – HALF YEARLY

January 2023- June 2023

The half yearly presentation of research scholars under the Department of Home Science, St. Teresa's College, Ernakulam was conducted on 14/07/2023 at 11:30 am. Listed below are details of scholars. The second batch was evaluated by a panel with Dr. Mariam Mani as the external expert, Dr. Leena Leon as internal expert and Dr. Susan Cherian was the chair person.

Batch 2

SLNo.	Name of the scholar	Title	Supervisor	Remarks
1	Nair Supriya Damodaran	Development of clothing for differently abled	Dr. Dhanya N	Present

		children using natural dyed cotton fabrics		
2.	Jyothi.S	A Study on the Severity of Smartphone Usage among School Children (Between 6 to 8 years) in Ernakulam	Dr. Dhanya N	Present
3.	Azra Nasreen V	Developing sustainable plans for transforming selected Anganwadies in the coastal belt of Kochi to utilitarian early learning centres	Dr. Dhanya N	Present
4.	Sushmitha S Kamath	Enhancing achievement in mathematics among children through multiple intelligence teaching strategies	Dr. Thara Sebastian	Present
5.	Akshaya.E	An evaluative study to assess school readiness among rural and urban anganwadi children in Kannur district	Dr. Nisha Vikraman	Present
6.	Sukanya S R	Detection of Attention Deficit Hyperactivity Disorder Among Preschool Children in Kottayam District	Dr. Nisha Vikraman	Present
7.	Leena George	Conceptualisation, implementation and evaluation of a Structured Reading Programme (SRP) for improving the Reading Competency of Lower Primary Students of selected areas in Ernakulam	Dr. Dhanya N	Present
8.	Lenus Deepa Francis	Development and implementation of age appropriate activities for foundational stage of education in accordance with the curriculum NEP 2020	Dr. Betty Rani Isaac Co-guide: Dr. Dhanya N	Present

9.	Maria Shaji	Developmental and Health Status of the Tribal Children in Idukki District	Dr. Betty Rani Isaac	Present
10.	Surya M. Kottaram	Risk Factors of Metabolic Syndrome among Adults (30 to 59 years) in Kochi	Dr. Betty Rani Isaac	Present
11.	Grace Ann Mathew	Parental perception on Early childhood care and education in Ernakulam district	Dr. Nisha Vikraman	Present
12.	Treesa Sindhu P Thomas	Household solid waste management by urban and rural homemakers - An analytical study	Dr. Leena Leon	Present
13.	Madhumitha Rajendraprasad	Nutritional assessment and dietary intervention for children (3-10 years) with Autism Spectrum Disorder	Dr. Shilpa Jose	Present
14.	Teena Thomas	Development and Commercialisation of value added ready to cook chapatis	Dr. Anu Joseph	Present
15.	Ann Mathew Pampackal	Product development and popularisation of millet milk and power	Dr. Anu Joseph	Present

A brief report on all the presentations are given below:

14. Name: Nair Supriya Damodaran

Title: Development of Clothing for Differently Abled Children using Natural Dyed Cotton Fabrics

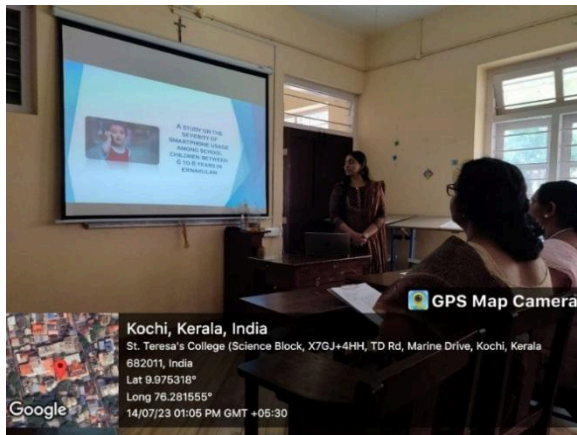
Report: The research work progress for last six months presented was the conduct of pilot study at Sradha - School for Special Children, Ernakulam and Adarsh Rehabilitation Centre, Ernakulam. The data regarding the clothing preferences and problems faced during clothing was collected from 10 children with Cerebral Palsy and 9 children with Autism. The data was analysed and it was suggested after the analysis that the same questionnaire with some minor changes can be used for the actual sample data collection.



15. Name: Jyothi S

Title: A study on the severity of smartphone usage among children between 6 to 8 years in Ernakulam.

Report: The presentation went well and suggestions given by the external experts were noted down by the presenter and will be incorporating in the study.



16. Name: Azra Nasreen V

Title: Developing Sustainable Plans for Transforming Selected Anganwadies in the Coastal Belt of Kochi to Utilitarian Early Learning Centres

Report: The researcher worked on activities for module preparation. Interacted with ICDS supervisors for the same. Interacted with AWWs. Submitted the works to the guide and then to an external expert Dr. Reeta Sonawat (Director, Ampersand, Former Dean, Professor and Head Department of Human Development, SNDT Women's University, Mumbai). Got suggestions from them. Participated in a workshop on age-appropriate worksheet preparation conducted by the Women and Child Development Department, Government of Kerala.



17. Name: Sushmitha S Kamath.

Title: Enhancing achievement in mathematics among children through multiple intelligence teaching strategies

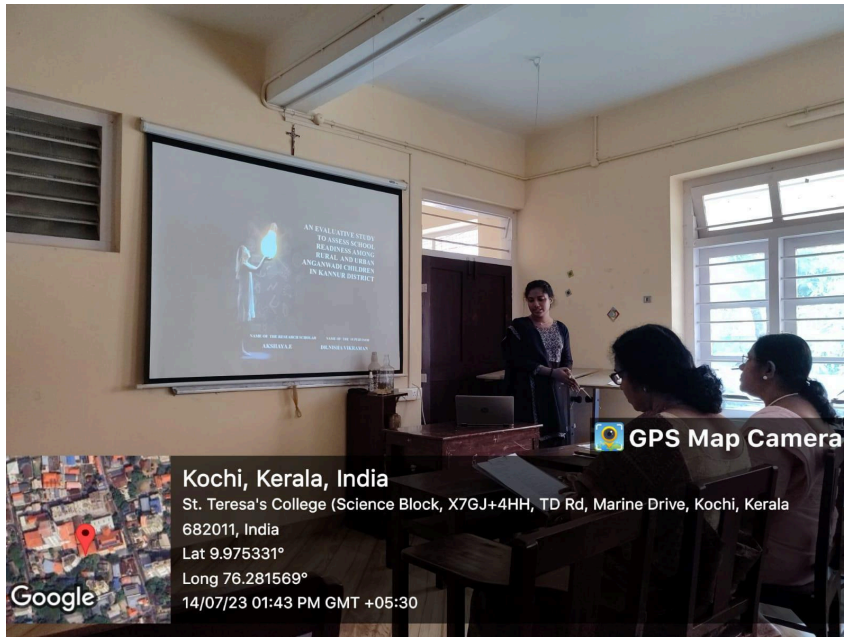
Report: The presentation went well. The experts suggested to bring more clarity to the methodology slide.



18. Name: AKSHAYA.E

Title: An evaluative study to assess school readiness among rural and urban anganwadi children in Kannur district

Report: completed data collection and analysis. Thesis writing is going on. No corrections received



19. Name: Sukanya S R

Title: Detection of Attention Deficit Hyperactivity Disorder among Preschool Children in Kottayam District

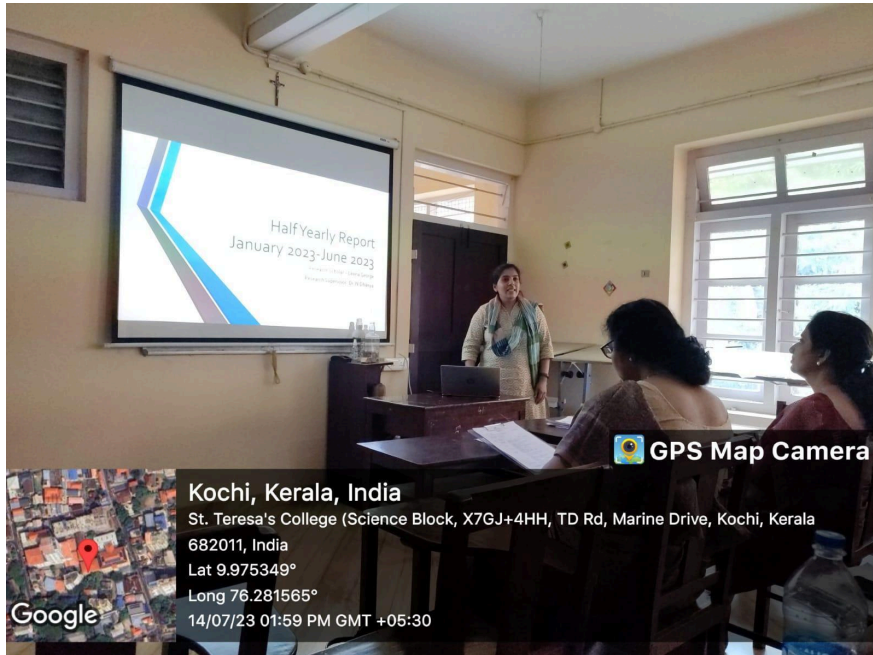
Report: A request to conduct pre submission presentation has been forwarded to the University. An article prepared and submitted to the HSAI Journal.



20. Name: Leena George

Title: Conceptualization, implementation and Evaluation of Structured Reading Programme for improving the Reading Competency among Lower Primary School Students in selected area in Ernakulam-An applied Study

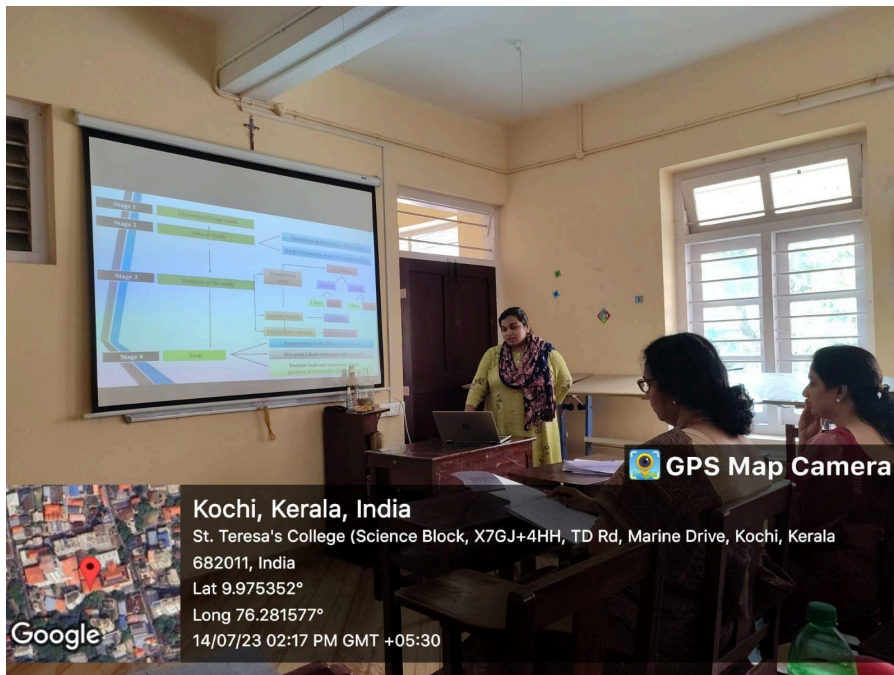
Report: Methodology presented and results tabulated with objectives were discussed alongside Reading Competencies.



21. Name: Lenus Deepa Francis

Title: Development and implementation of age appropriate activities for foundation stage children in accordance with NEP 2020

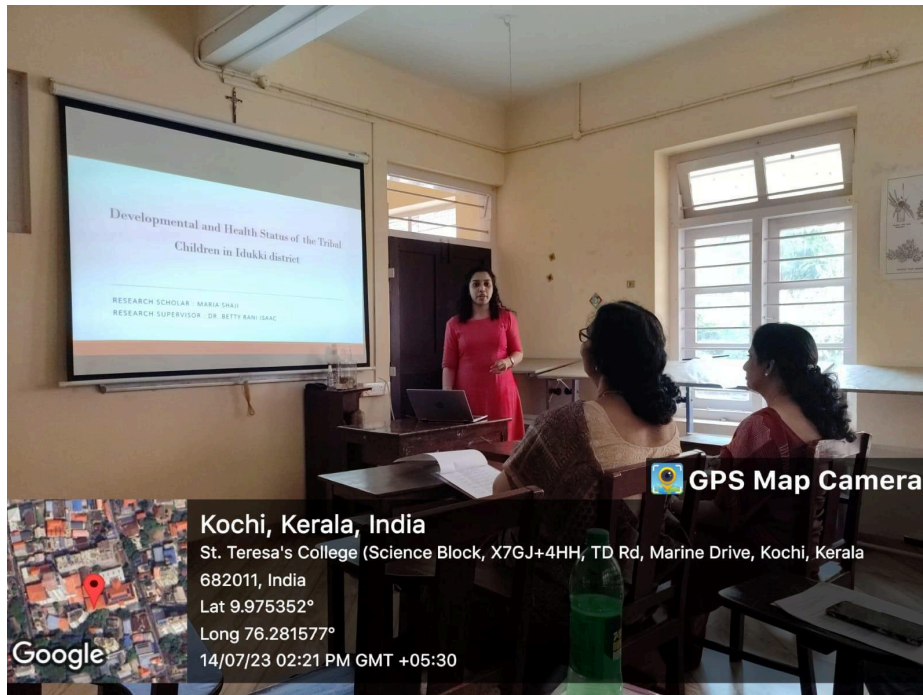
Report: Collection of review. Developed stage 1 activities and pilot study completed. Reworking of stage 1 activities. Developing stage 2 activities. No correction received.



22. Name: Maria Shaji

Title: Developmental and Health status of the Tribal Children in Idukki district.

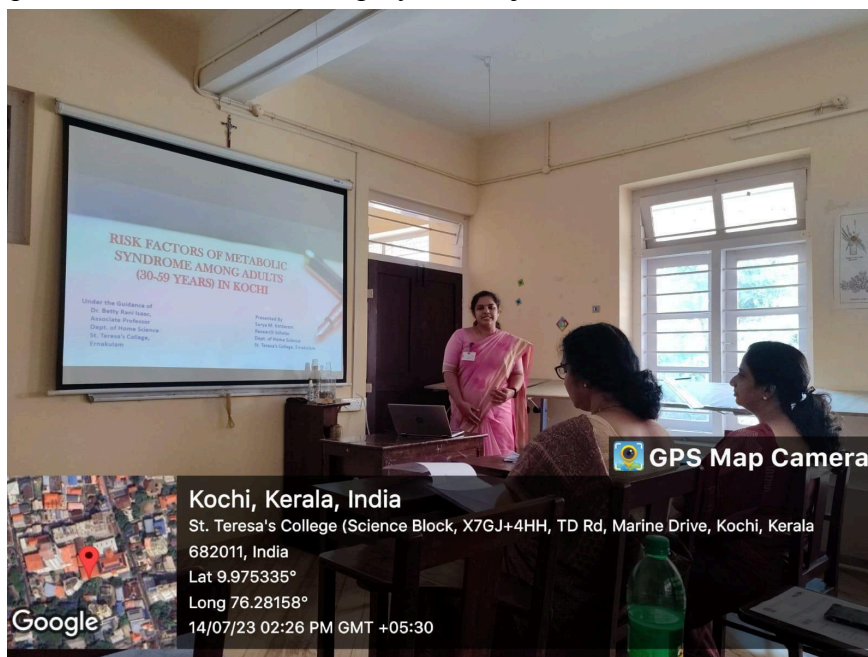
Report: The sampling method was discussed and the suggestion was to specifically mention the sampling frame.



23. Name: Surya M. Kottaram

Title: Risk factors of metabolic syndrome among adults (30-59 years) in Kochi

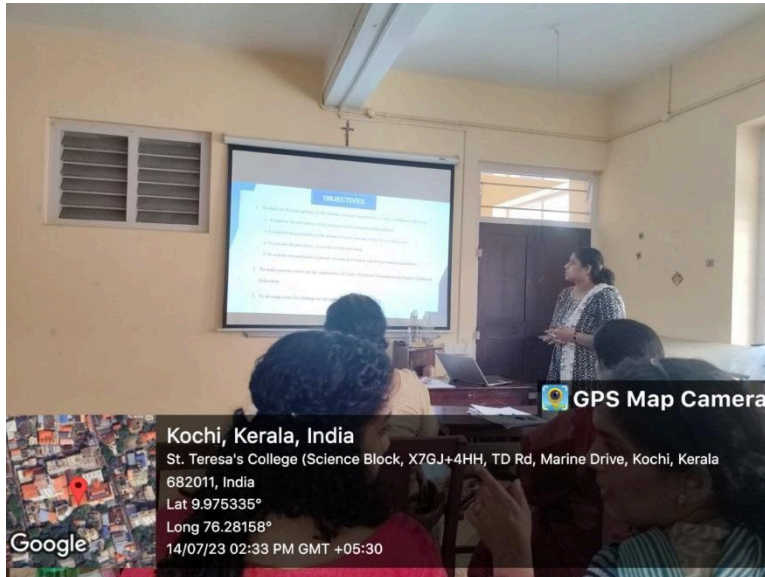
Report: Computer Application software for patient education and motivation was developed and it was finalized. Modifications suggested for Computer Application software were incorporated. Data collection is going on in collaboration with various multi-specialty hospitals, clinics and various diagnostic testing laboratories. The questionnaires were filled up by the subjects. Attended Webinars and FDPs.



24. Name: Grace Ann Mathew

Title: Parental Perception on Early Childhood Care and Education in Ernakulam District.

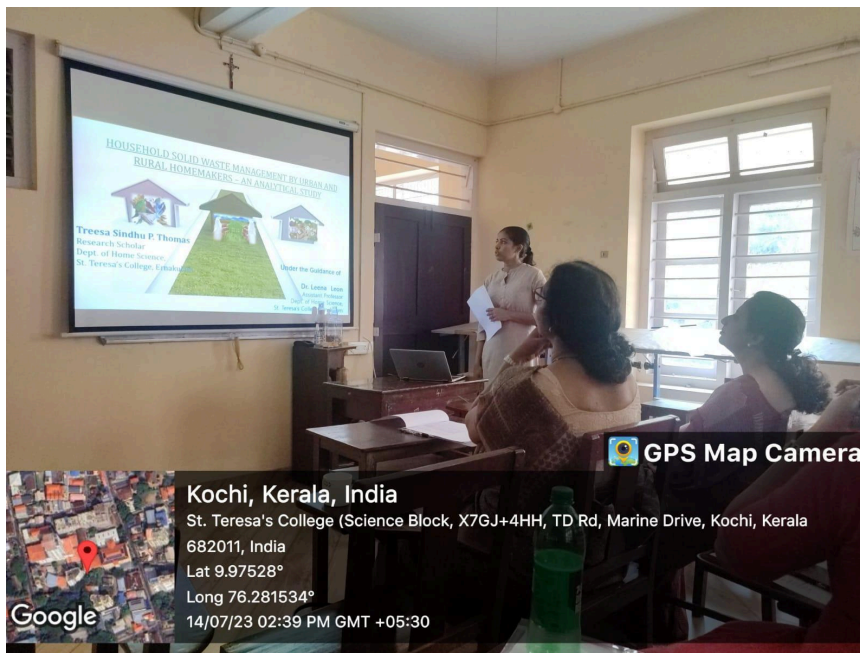
Report: data collection completed, began entering data into the excel sheet, took awareness sessions for parents, did pre and post test to know the effectiveness of the awareness session.



25. Name: Treesa Sindhu P Thomas

Title: Household solid waste management by urban and rural homemakers- an analytical study

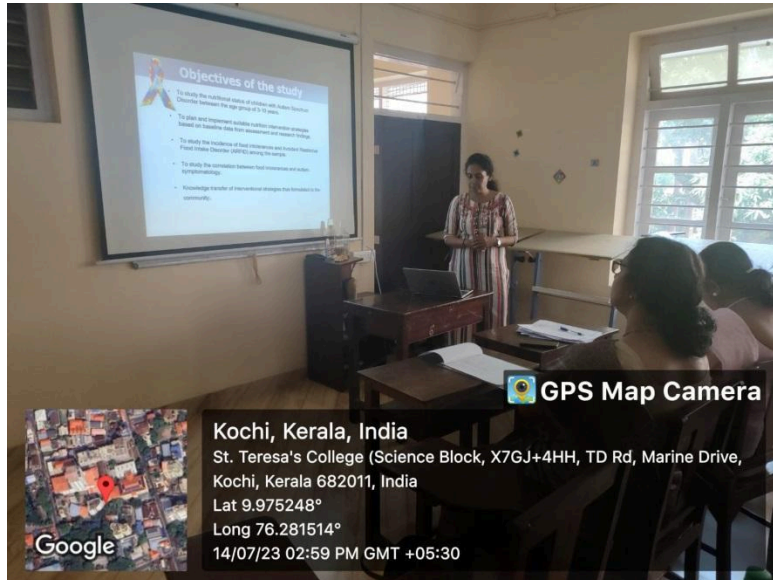
Report: Suggestions were given by the expert: to include current services provided by the authority for households solid waste management and why they are not functioning well, to include suggestions from those NGO's and government organization regarding present situation of solid waste management.



26. Name: Madhumita Rajendraprasad.

Title: Nutritional assessment and dietary intervention for children (3-10 years) with autism spectrum disorder

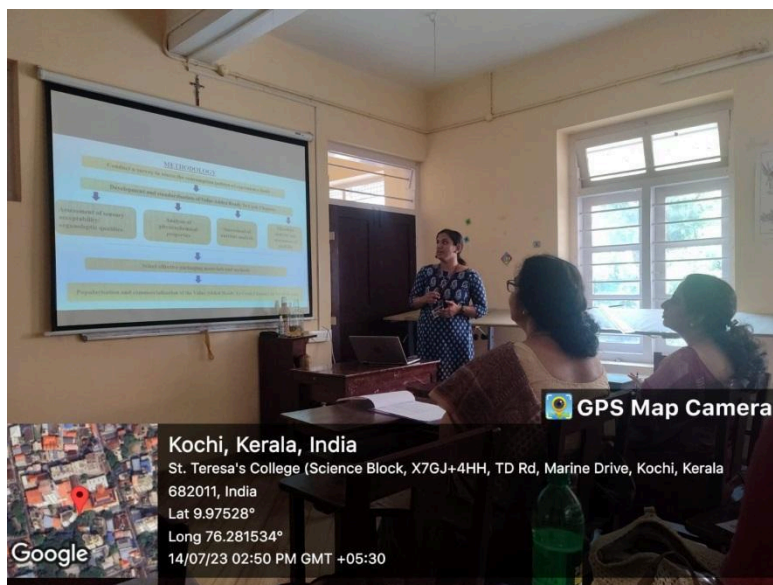
REPORT: During the past 6 months literature review was conducted and various seminars were attended. Validation of Autism Parenting Stress Index is in progress currently.



27. Name: Teena Thomas

Title: Development and commercialization of value added ready to cook chapatis

Report: Development and formulation of value-added chapatis. Collecting Study materials for coursework exams. Visited the “fresh master half-cooked chapati” processing unit. Suggestion -improve the novelty of the developed products with specific criteria.



28. Name : Ann Mathew Pampackal

Title: Product development and popularisation of millet milk and powder

REPORT: During the past 6 months literature review was conducted and various seminars were attended. Data collection and analysis of the survey in the process.



The presentations were complete by 3:30 pm. The scholars were able to evaluate the progress of their study and to enhance the research based on comments

Half-Yearly presentation conducted on 14-07-2023

Title & Abstract of Presentation of Research Scholars

Department of Physics

Sl. No	Name of Research Scholar	Name of Research Guide	Presented	Not Presented	Fee paid
1	Anjali G.	Dr. Kala M S	Presented		Yes
2	Pravitha V	Dr. Kala M S	Presented		Yes
3	Divya Rajan	Dr. Santhi A		Not Presented	No
4	Meera Venugopal	Dr. Santhi A	Presented		Yes
5	Minu Pius	Dr. Santhi A	Presented		Yes

Suitability study of ternary nanohybrid of hematite in photodynamic therapy

Divya Rajan¹, Dr. Santhi A²

¹ Research scholar, Department of Physics and centre for Research, St. Teresa's College, Ernakulam

² Associate Professor, Department of Physics, St. Teresa's college, Ernakulam

Ternary nanohybrid of hematite with silver and platinum was prepared via chemical reduction method. The basic structural, optical and morphological characterizations confirmed the formation of nanohybrid. The suitability study of the sample in photodynamic therapy was investigated against melanoma cell lines. The sample exhibited enhanced anticancer activity in the presence of uv light and found to be suitable in photodynamic therapy.

d⁰ Ferromagnetism in Nanorods of

MoO₃ and Carbon Doped MoO₃

Anjali G¹, Dr Kala M S²

¹ Research scholar, Department of Physics and center for Research, St. Teresa's College, Ernakulam

²Professor, Department of Physics, St. Teresa's college, Ernakulam

Recently, d^0 ferromagnetic materials have been projected as one of the promising novel materials for spintronics applications. In this work, we studied hydrothermally synthesized MoO_3 nanorods and carbon doped MoO_3 nanorods. From the study of crystal structure using X-ray diffraction (XRD) pattern, it is evident that the obtained samples are single phase orthorhombic MoO_3 . And also doped samples shows no extra peaks and small change in lattice parameters other than the pure MoO_3 confirms the chances of substitutional doping. The UV-Vis spectroscopy and Photoluminescence spectroscopy were used for the optical property studies. Fourier Transform infrared spectroscopic (FTIR) studies indicate the vibrations in Mo and O bonds. As the doping concentration increases the Transmittance intensity decreased due to the replacement of carbon in place of oxygen. The microstructural study by scanning electron microscope reveals the nanorod like structure of samples. The X-ray photoelectron spectroscopy confirms there was no ferromagnetic impurity in the prepared samples. The XPS data confirms the presence of oxygen vacancies in pure MoO_3 and doped samples (doped samples have less oxygen vacancies than that of pure MoO_3). The measurement of the magnetization variation with temperature and magnetic field were done using Vibrating sample magnetometer.

SYNTHESIS AND CHARACTERIZATION OF COPPER NANOPARTICLES

Meera Venugopal¹, Dr. Santhi A²

¹ Research scholar, Department of Physics and center for Research, St. Teresa's College, Ernakulam

² Associate Professor, Department of Physics, St. Teresa's college, Ernakulam

Copper ($\text{Cu-Cu}_2\text{O}$) nanoparticles were prepared using chemical reduction method by varying the stirring time. Structural and Opto-thermal characterizations of the as prepared nanoparticles were done. The results of UV-Visible absorption spectroscopy, Photoluminescence (PL) spectroscopy, X-ray diffraction (XRD), Fourier Transform Infrared Spectroscopy (FTIR) and Field Emission Scanning Electron Microscopy (FESEM) were analyzed. Photothermal studies were done on the as prepared $\text{Cu-Cu}_2\text{O}$ nanoparticles using thermal lens (TL) technique.

Preparation and characterization of nanocellulose

Pravitha V¹, Dr. Kala M S²

¹Research scholar, Department of Physics, St. Teresa's College, Ernakulam

²Professor, Department of Physics, St. Teresa's college, Ernakulam

The blooming of electrical devices raised a great interest for the synthesis of bio-based polymers. Cellulose is one of the most abundant biopolymer in the nature. Nanocellulose in nano metric scale enhances the properties of cellulose. Nanocellulose has attracted wide attention due to unique properties such as, high surface area, tunable surface chemistry, excellent mechanical strength, flexibility, renewability, biodegradability and good thermal stability etc. Due to this properties nanocellulose demanding the challenges of EMI shielding. In this work, we isolated nanocellulose from pineapple leaf by alkali treatment followed by acid hydrolysis. And its structural properties are characterized by FT-IR and XRD. And its morphological study & thermal studies were done by using SEM and TGA. The synthesized nanocellulose can also be used for various applications like, Biosensor, paper making, biomedical industry and food industry etc.

Minu Pius, Dr. Santhi A

Pre- Ph.D presentation was conducted at the end of semester.

Half Yearly Progress Report (January to June 2023)

Department of Sociology and Centre for Research

St Teresa's College (Autonomous), Ernakulam

Presentation Date: 14 July 2023

Place: AV Room, Near to Dept. of Sociology, St Teresa's College

Time: 11 A. M to 3:30 P.M

The Half Yearly Progress Report Presentation of Research Scholars in the Department of Sociology and Centre for Research was held in Seminar Room (Near Sociology Department) in the presence of External Subject Expert Dr. Sheetal S Kumar, Assistant Professor & Head, SSUS, Kalady, and Supervisors and Faculty members in the Sociology Department.

The session started at 12 pm, Dr. Dora Dominic, Assistant Professor, Department of Sociology delivered the welcome speech. The research guides, Post Graduate students were present for the presentation of research scholars. Every presentation was evaluated and valuable comments were given by the experts. The entire session was concluded at 3.30 pm and a vote of thanks was proposed by Dr. Dora Dominic Assistant Professor Department of Sociology St. Teresa's College.

Sl. No	Name of Research Scholar	Name of Research Guide	Presented	Not Presented	Fee paid
1	Dinu K.	Dr. Leela P.U.	Presented		Yes
2	Sheela Abraham	Dr. Sajitha J. Kurup	Presented		Yes
3	Mohan Mathew	Dr. Leela P.U		Not Presented	No
4	Aswathi A.	Dr. Reeja P.S	Presented		Yes
5	Geethu P.G	Dr. Sajitha J Kurup	Presented		Yes
6	Alphonsa Kurian	Dr. Leela P.U	Presented		Yes

7	Avani J. Nath	Dr. Suresh Babu	Presented		Yes
8	Sanjose A. Thomas	Dr. Sajitha J.Kurup	Presented		Yes
9	Athira Sugathan	Dr.Leela P.U	Presented		Yes
10	Lara R.N	Dr. Suresh Babu	Presented		Yes
11	Radhakrishnan T.	Dr. Reeja P.S	Presented		Yes
12	Sreelakshmi C.S	Dr. Sajitha J. Kurup	Presented (online)		Yes
13	Abhijith Kesav	Dr. Leela P.U	Presented		Yes
14	Femi Ann Mathew	Dr. Suresh Babu		Not Presented	No

The following Research Scholars under the Guidance of **Dr. Leela P.U.** Assistant Professor, Department of Sociology, presented a brief review of their progress in their respective research areas.

- Research Scholar: **Dinu K**

The progress of the Research titled “Religious conversion and identity: Understanding the Determinants and Impacts of Dalit and No-Dalit Conversion to PRDS” was presented before the aforesaid committee. Discussed objectives of the study, literature reviewed in the past six months, the gaps identified, focal points identified from the pilot study conducted was discussed. The suggestions put forth by the external expert were, to focus the study on the non-Dalit conversion to PRDS since the same has much sociological relevance and is innovative, to change the methodology to Ethnography from Ethnographic case study.

Research Scholar: **Athira Sugathan**

Presented the progress of Research titled “Marumakkathayam to Makkathayam in Malabar Region: A Structural Analysis”. Started with a brief introduction about Marumakkathayam, its significant features, and how this has changed over some time with the coming of the British and its disintegration. After discussing the objectives, presented the review of works of literature done so far and the gaps identified. Discussed the focal points identified from the pilot study conducted and also the academic activities engaged in the semester. The

suggestions from Dr. Sheetal were to read works done about Indian Family System, conduct a pretest, and also to look into the power structure within the family.

- Research Scholar: **Alphonsa Kurian**

Research titled “Women Empowerment in Latin Fishing Community: A Study on the Role of Caste, Geography and Social Networks”. Discussed in detail the objectives of the study, Concepts, the research design that will be used for data collection. External Expert suggested to make a clarification on empowerment, what does it mean by civic community.

- Research Scholar: **Abhijith Kesav**

Research titled “Social determinants of health seeking behavior and perception of Ayurveda among the population of Kerala” was presented. Briefed about the objectives, various dimension that will be looked into and the sociological theories that will be focused on.

The following Research Scholars under the Guidance of **Dr. Sajitha J Kurup**, Assistant Professor, Department of Sociology. Presented a brief review of their progress in their respective research areas.

- Research Scholar: **Sheela Abraham**

Presented the Research topic titled “Religious Communities and Social Development – A Study on the Catholic Nuns in Kerala”. The suggestions put forth for further guidance and considerations were to use sociological terminologies than Religious and why a mixed method of Quantitative and Qualitative Data Collection in the Research.

- Research Scholar: **Sanjose A Thomas**

Presented on the topic “Development Induced Displacement and Social Disarticulation of Displaced Persons with Special Reference to Nedumbassery Airport Project”. Expert reviewed the progress and expressed satisfaction on the same and clarified the need to follow mixed method in research. She also suggested the scholar to check the possibility of using qualitative research design and to rework on the methodology part if required.

- Research Scholar: **Geethu PG**

Presented on Research titled “‘Transworld’: As Sociological discourse on the life and experiences of transgenders”. The presentation included the methodology, the works did in past six months and future plan of action. The major recommendations made by external subject expert were to make slight changes in objectives and the title, to review more and make questionnaire more valid, to revamp on questionnaire for Heteronormative people.

- Research Scholar: **Sreelakshmi C.S. (on-line Presentation)**

Presented on the topic “Redefining Gender and Sexuality: A Sociological Deconstruction into the Life of Men Who Have Sex with Mne (MSM) Identities”. The suggested to use more qualitative techniques, also to bring more clarity on how to select the respondents of case study and few key concepts that needs to be referred to.

- Research Scholar: **Lara R.N**

Research Guide: **Dr. Suresh Babu P**, NSS Hindu College, Chenganassery, Kottayam.

Presented Research titled “Exploring Professional Dignity and Job Satisfaction of Millennial Nurses in Clinical Workplaces”. Discussed the objectives, academic activities engaged. External expert suggested to look into theoretical concepts to make epistemological and ontological assumptions to design research strategy, methodology, data collection techniques and analysis procedure.

- Research Scholar: **Avani J Nath**

Research Guide: **Dr. Suresh Babu P**, NSS Hindu College, Chenganassery, Kottayam.

Presented on research topic titled " Social Vulnerability during Disaster - A Study among Fishing Community in Kerala". Discussed objectives and significance of the study, operational definition, methodology and progress of work from the last 6 months. Suggestion from the expert was to choose sampling method attentively and number of samples and the sample list.

- Research Scholar: **Aswathi A**

Research Guide: **Dr. Reeja P S**, Assistant Professor, BCM College, Kottayam

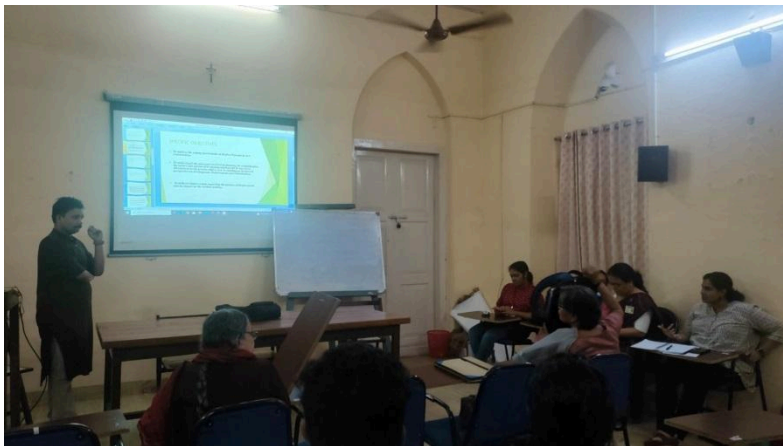
Presented on Research topic “Socio-cultural life and worship: A sociological analysis of sacred groves in Kerala”. Discussed the literatures reviewed and the academic activities

engaged. Shared insights from the international seminars, national seminars, different webinars attended. Discussed the focal points collected from the field. Suggestions by subject expert were to Change the title and one of the methods of study- participant observation to observation.

- Research Scholar: **Radhakrishnan T**
- Research Guide: **Dr. Reeja P S**, Assistant Professor, BCM College, Kottayam

Presented Research titled “Social Determinants of Alcoholism Among Adolescents in Kerala”. Discussed the objectives of the study, academic activities engaged and future plans.

NOTE : Mohan Mathew, Research Scholar working under the supervision of Dr. Leela P.U and Femi Ann Mathew, Research Scholar working under the Supervision of Dr. Suresh Babu were absent for the Half Yearly Progress Report Presentation.





Department of Economics and Centre for Research Report of one day workshop on IPR Awareness

Title: One day Workshop on IPR Awareness organized by Department of Economics and TRACC in association with Interuniversity Centre of IPR studies CUSAT

Number of beneficiaries: 44 students

Date: 13/9/23

Venue: Seminar Hall

Participants: Teachers and Students of Economics Department

On 13 th September 2023, the Department of Economics and Centre for Research conducted a one day workshop on IPR awareness which started at 10 am and ended at 3.30 pm. The event commenced with warm welcome by IG Rathish, who set the tone for the proceedings. He introduced the program and it's objective creating an atmosphere of anticipation. Following this Ms. Arathi Ashok took the stage to provide an insightful overview of copyright and trademark laws, shedding light on their significance and relevance in their modern world. Her presentation was informative and engaging.

Dr. Kavitha Chalakal then took the audience on a journey into the realm of patents and industrial designs, offering a clear and concise introduction to these important aspects of intellectual property. Finally, Dr.Asha shared valuable insights into the patent filling procedure in India and the crucial step of prior art search. Her expertise illuminated the often complex process.

Overall the event was immensely helpful, enabling participants to gain a comprehensive understanding of these key topics in intellectual property. It was a well organized and informative session, leaving participants with valuable knowledge.



**Inter University
Centre for IPR
Studies, CUSAT**

***Cordially invites you to
the***

**ONE DAY
WORKSHOP
ON
IPR AWARENESS
AT
ST. TERESA'S COLLEGE
ERNAKULAM**

**Funded by RUSA MAJOR
PROJECT (T5F)**

**13th September
2023
10 AM-3.30 PM**

INTRODUCTION

The term Intellectual Property (IP) refers to any literary and artistic works of art, inventions, trademarks, and designs that are the result of human cognition. IP rights are a set of legally protected exclusive rights granted to individuals or entities over their creations for a limited period of time. IPR is becoming more and more of a strategic instrument for boosting industrial competitiveness.

Patents, copyright, and trademarks are a few examples of IP protection under the law that allow people to profit financially or gain recognition from their creations or inventions. It is essential for encouraging innovation. The IP system seeks to provide an environment where creativity and innovation can thrive by striking the correct balance between the interests of innovators and the larger public interest.

OBJECTIVES OF THE WORKSHOP

- Introduce participants to the concept of Intellectual Property Rights and its importance in safeguarding creative works and innovations.
- Increase awareness about different types of IPR, including patents, trademarks, copyrights.
- Explain the process of acquiring and registering intellectual property, including the application procedures and associated legal considerations.

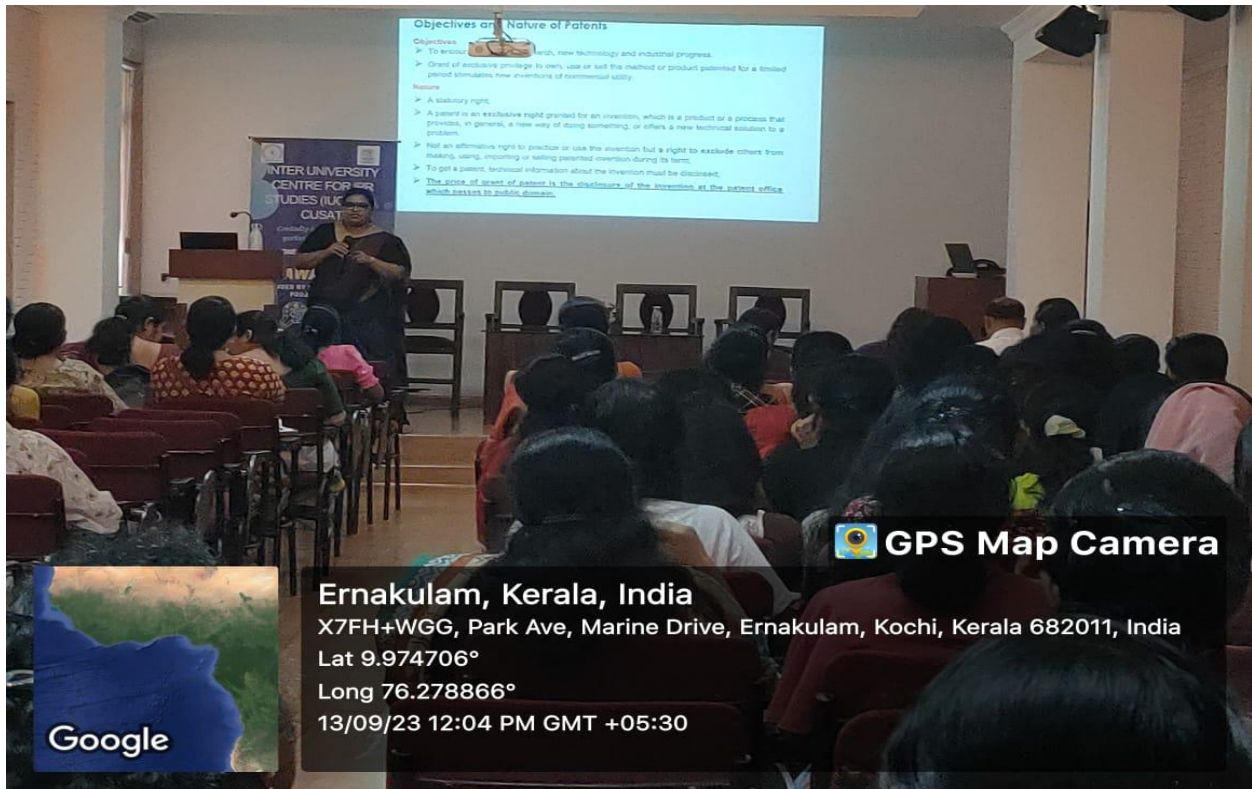
TARGET AUDIENCE

This workshop is meant for Research scholars and Teachers working in the area of Science and Technology from Colleges, Universities and Research Institutes.

MODE OF WORKSHOP

The workshop will be conducted in the physical mode

***Last date to register: 8th
September 2023***




Objectives and Nature of Patents

Objectives


- To reward the inventor for his/her new technology and industrial progress.
- Grant of exclusive privilege to the inventor for a limited period stimulates new inventions of economical utility.

Nature

- A statutory right.
- A patent is an exclusive right granted for an invention, which is a product or a process that provides, in general, a new way of doing something, or offers a new technical solution to a problem.
- Not an affirmative right to practice or use the invention but a right to exclude others from making, using, importing or selling patented invention during its term.
- To get a patent, technical information about the invention must be disclosed.
- The grant of patent is the signature of the inventor at the patent office which restricts its public domain.

 **GPS Map Camera**

Ernakulam, Kerala, India
X7FH+WGG, Park Ave, Marine Drive, Ernakulam, Kochi, Kerala 682011, India
Lat 9.974706°
Long 76.278866°
13/09/23 12:04 PM GMT +05:30



Google



Desktop environment with various icons and a taskbar.

 **GPS Map Camera**

Ernakulam, Kerala, India
X7FH+WGG, Park Ave, Marine Drive, Ernakulam, Kochi, Kerala 682011, India
Lat 9.974706°
Long 76.278866°
13/09/23 10:36 AM GMT +05:30


Google



Objectives of Justice

- 1. To ensure that the victims have adequate and holistic program.
- 2. To ensure that the victims have adequate and holistic program for a "holistic" and "integrated" approach to justice.

Objectives

- 1. To ensure that the victims have adequate and holistic program for a "holistic" and "integrated" approach to justice.
- 2. To ensure that the victims have adequate and holistic program for a "holistic" and "integrated" approach to justice.
- 3. To ensure that the victims have adequate and holistic program for a "holistic" and "integrated" approach to justice.
- 4. To ensure that the victims have adequate and holistic program for a "holistic" and "integrated" approach to justice.
- 5. To ensure that the victims have adequate and holistic program for a "holistic" and "integrated" approach to justice.

**INTER UNIVERSITY
CENTRE FOR IPH
STUDIES (IUCSIP)
CUSAT**

AWARENES

Report of the Research Meet – TRACC 2024 8/1/2024 Seminar Hall

The meeting started at 9.45 with a prayer song. Dr. Priya. K. Nair Assistant professor from the Dept of English welcomed the gathering. It was followed by the presidential address by Provincial superior and manager Rev. Dr. Sr. Vinitha. In her speech she appreciated TRACC for bringing intellectual experts for supporting and guiding the research scholars. She also advised the research scholars to make their studies beneficial to the society. She shared the opinion that research scholars should aspire for greatness. Dr Alphonsa Vijaya Joseph, Principal, St. Teresa's College felicitated the gathering. She said that during this centenary year, our institution is focusing more in creating a research culture among the students and the present research scholars can support this goal by creating more research outputs like publications in journals and books

Dr. Sajimol Augustine, Senior Administrator felicitated biannual research meet and opined that this kind of research meetings surely help the scholars to reach the heights of wisdom. Also, it would give new insights to face the challenges of daily life situations. Following the felicitation, chief guest Dr Suresh Das honoured Ph. D awardees of 2022-23 academic year by handing over the trophies. Dr. Suresh Das started his Keynote session by 10.15.

Unlike the previously fixed topic of " Research in the changing Scenario of Higher education" Dr Suresh slightly deviated to a new topic in which he discussed about the ultimate goal of education and meaning of success in life. He asserted that whatever you do, if you do it with passion, you can achieve a purposeful life. His class was very interesting and thought provoking.

Dr Taniya Vivera Assistant Professor, Department of English extended vote of thanks. With that the morning session of the biannual research meet came to an end. Research Scholars proceeded to their respective departments for presentation of progress report of their research and get expert advice from their subject experts.





**ST. TERESA'S COLLEGE
(AUTONOMOUS), ERNAKULAM**

College with Potential for Excellence
Re-accredited by NAAC with A++ Grade & CGPA 3.57 (4th Cycle)
Ranked 41st in NIRF 2023

**TERESIAN RESEARCH AND
CONSULTANCY CELL (TRACC)
BIANNUAL RESEARCH MEET
2023-24**

8 JANUARY 2024
Arts Block Auditorium
09:00 AM



Guest of Honour :

Prof. SURESH DAS

Honorary Professor, IISER - Trivandrum
Curriculum Committee Chairman, KSHEC
(Former Executive Vice President of KSCSTE
Former Director NIIST-TVM)

Registration @ 8.30 am

PROGRAMME SCHEDULE

- WELCOME : **Dr. Priya K Nair**
Assistant Professor, Department of English
- PRESIDENTIAL ADDRESS : **Prof. Alphonsa Vijaya Joseph**
Principal, St. Teresa's College, Ernakulam
- FELICITATIONS : **Dr. Sajimol Augustine**
Senior Administrator
St. Teresa's College, Ernakulam
- HONOURING Ph.D. AWARDEES
- KEYNOTE ADDRESS : **Prof. Suresh Das**
TOPIC : Research in the Changing Scenario of Higher Education
- VOTE OF THANKS : **Dr. Tania Vivera**
Assistant Professor, Department of English

Presentation by Research Scholars

- | | |
|---------------------------------|-------------------------------------|
| Patrons : | Principal : |
| Rev.Dr.Sr.Vinitha CSST | Prof. Alphonsa Vijaya Joseph |
| Provincial Superior and Manager | Program Convenors : |
| Rev.Sr. Emeline CSST | Prof. Jaya T Varkey |
| Director | Prof. Thushara George |
| | Program Coordinators |
| | Dr. Priya K Nair |
| | Dr. Tintu Jose Manicketh |

Organising Committee:

- | | |
|--------------------------------|--------------------------------|
| Dr. Dhanya N. | Dr. Frincy Francis |
| Dr. Leela P. U. | Dr. Preeti Kumar |
| Dr. Leena Leon | Dr. Santhi A. |
| Dr. Elsam Joseph | Dr. Saritha Chandran A. |
| Dr. Tania Vivera | Dr. Elizabeth Kuruvilla |
| Dr. Mariyam Thomas | Dr. Jeena Ann Joseph |
| Dr. Arya P. Mohan | |
| Dr. Vinitha T. Tharakan | |



Department of Chemistry and Centre for Research Report of Research Meet on 8th January 2024

The Biannual research meet 2023-24 was organised by Teresian Research and Consultancy Cell(TRACC) on 8th January 2024 at Arts Block Auditorium. The resource person of first session was Prof. Suresh Das, Honorary Professor, IISER-Trivandrum and curriculum committee chairman, KSHEC. Dr. Ajil P.A who successfully completed his PhD in 2023 under the guidance of Dr. Jaya T. Varkey, Professor, Department of Chemistry, St. Teresa's College (Autonomous), Ernakulam was honoured during the event.



For the second session, which was dedicated to the presentation of half-yearly progress reports at respective departments, external expert Dr. Jinu George, Associate Professor, Sacred Heart College (Autonomous), Thevara, Ernakulam was present as external expert. During this session, research scholars Shethal Elizabeth Thomas, Sicily Rilu Joseph, Veena R Nair, Texin Joseph and Meera Jacob presented their respective half-yearly PhD progress reports.

Work Progress:

1. Sicily Rilu Joseph:

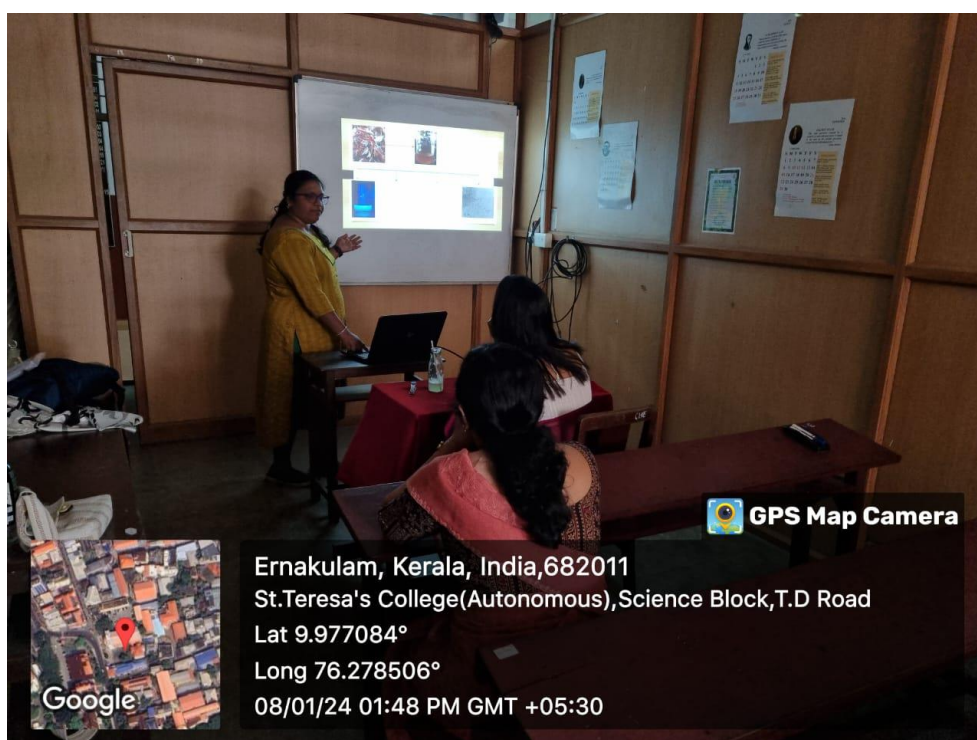
Full time scholar under the guidance of Dr. Ushamani M.

Synthesis, Property evaluation and Applications of Carbon/Graphene based Quantum dots from natural sources/waste materials

Work outlines an innovative approach to reusing crustacean waste by transforming it into fluorescent carbon quantum dots (CQDs) through a simple hydrothermal process. These CQDs were then thoroughly examined using various spectroscopic and microscopic techniques, such as XRD, FTIR, PL, TEM, and UV-Visible spectroscopy. Additionally, zinc oxide (ZnO) and copper-doped ZnO nanoparticles were eco-friendly synthesized from neem leaves, choosing copper as the dopant for its distinctive catalytic and antibacterial properties. These nanoparticles underwent extensive characterization. The antibacterial efficiency of these materials was tested against both gram-negative and gram-positive bacteria, revealing that a 0.04 M concentration of copper ions yielded the highest antibacterial activity. The newly developed Cu-ZnO-CQD nanocomposite was also characterized and displayed significant antibacterial effectiveness against *E. coli* and *S. aureus*. Finally, cytotoxicity assessments using the MTT assay on HEK-293 cells indicated that the nanocomposite was non-toxic up to a concentration of 50 µg/ml, maintaining over 75% cell viability after 24 hours.

This work was published:

Joseph, S. R., Sebastian, L., & Mythili, U. (2023, December 29). Transforming crustacean waste into a powerful antibacterial nanocomposite: unveiling the synergistic potential of novel copper doped zinc oxide–carbon dot nanocomposite. *Biomass Conversion and Biorefinery*. <https://doi.org/10.1007/s13399-023-05189-3>



2. Shethal Elizabeth Thomas:

Part-time Scholar under the guidance of Dr. Elizabeth Kuruvilla

Extraction and Functionalization of Polysaccharides from Marine Plants and Study of their Physical, Chemical, Biomedical and Biodegradation Properties

The presentation outlined the objectives of the completed work, the execution plan for the previous semester, and provided a detailed report of the literature survey conducted. The evaluator's feedback highlighted the importance of conducting a more literature survey and recommended a collaboration with the Central Marine Fisheries Research Institute (CMFRI)

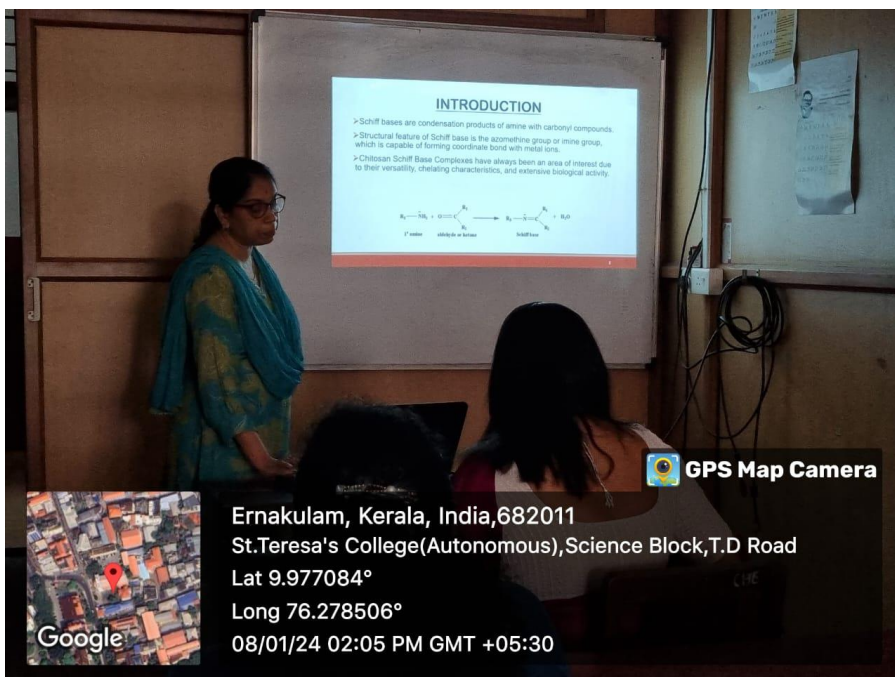


3. Veena R Nair:

Part Time Scholar under the guidance of Dr. Jaya T. Varkey

Synthesis and characterization of biopolymeric schiff base complexes

In this work two different chitosan-based Schiff base with different aromatic substituent groups and their metal complexes have been synthesised. The synthesised ligand and complexes were characterised by spectral and thermal analysis. FTIR analysis indicated that Schiff base formation and coordination with metal ion take place in Schiff base skeleton. Thermal analysis showed that the thermal stability of CSB increased slightly, while that of the complexes was reduced significantly in comparison with chitosan. The surface morphology and structural features of chitosan supported Schiff base ligand and its complexes were characterized. Image of chitosan showed flaky, smooth and even surface. Surface morphology of of ligand and complexes were completely different indicating the desired chemical modification was achieved. EDX data revealed the presence of metal content in the complexes. The results indicates that modification of chitosan into CSB and subsequent metal complexation can alter thermal stability, solubility, mobility, and bond energy. The present results show that the special properties of chitosan-based Schiff base derivatives can be changed by modifying the molecular structures of objective compounds with proper substituents groups.

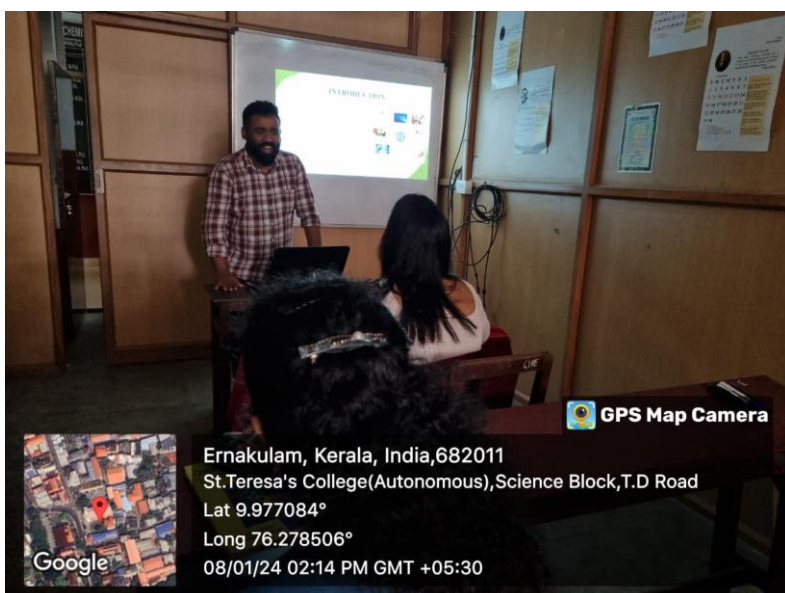


4. Texin Joseph

Part Time Scholar under the guidance of Dr. Jaya T. Varkey

Synthesis, characterisation and applications of some new electrospun nanofibers

Polyvinyl alcohol was functionalised via sulphonation using chloro sulphonic acid. The synthesised sulphonated polyvinyl alcohol (SPVA) was characterised using IR spectroscopy, EDX spectroscopy and Scanning electron microscopy. Different metals were incorporated with PVA and synthesised SPVA in different weight percentage. Metal loaded PVA and SPVA nanofibers were fabricated via electrospinning technique and were characterised by IR spectroscopy, EDX spectroscopy and Scanning electron microscopy. These system shows high surface area and can be employed as effective reusable solid catalyst.

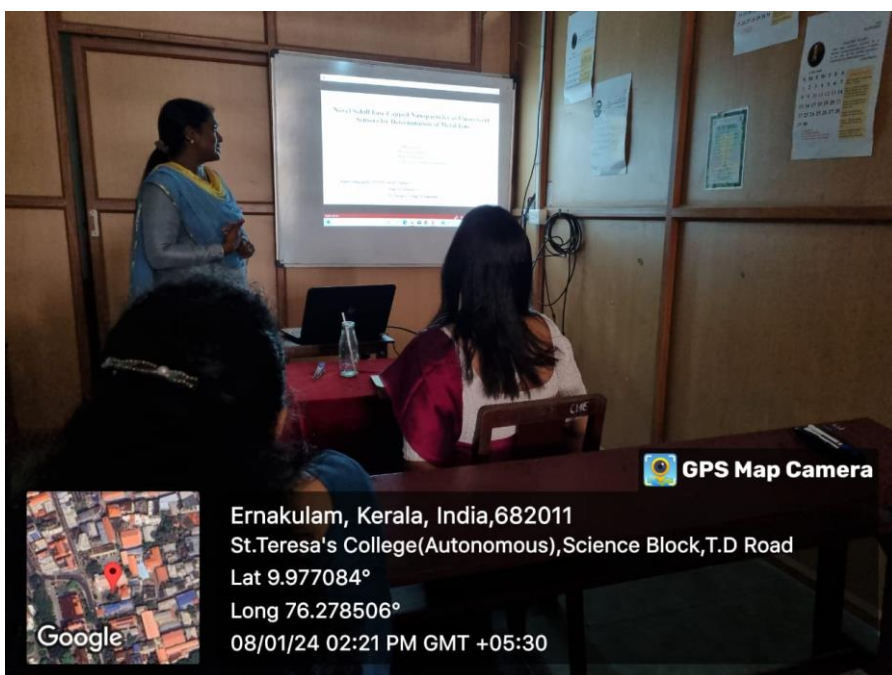


5. Meera Jacob

Part Time Scholar under the guidance of Dr. Jaya T. Varkey

Novel Schiff base Capped Nanoparticles as Fluorescent Sensors for Determination of Metal Ions

In the presentation, work was focused on the synthesis of Schiff base, characterisation of the ligand by IR, Elemental analysis, HRMS, ^1H and ^{13}C NMR and its application as a capping agent of ZnS nanoparticles to be used a fluorescent sensor for the determination of metal ions. The study include synthesis of ligand capped nanoparticles and its characterisation using PL, TEM and Fluorescence study include effect of time, Concentration study, Selectivity study, Interference study and the mechanism of quenching was proposed.



Dr. Jinu actively participated in the session and inquired about the potential future directions for the research work. She also provided valuable inputs and suggestions to the researchers, encouraging further exploration and advancement of their research.

Department of Economics and Centre for Research

Report of Research Meet on 8th January 2024

Research progress of Ph.D scholars of the Dept of Economics started at 1.30 with a silent prayer. Dr. Anupa extended warm welcome to everyone present in the meeting. Dr. Pradeep, Dept. of Economics, Maharajas College, Ernakulam, was the external expert for the presentation. Research Supervisors Dr. Thushara George and Dr. Nirmala Padmanabhan and other teachers of Dept. of Economics, Students of 3 year BA Economics were present in the meeting. A brief report on work done and suggestions by external expert regarding each topic are summarized below:

1. Tom Pious

Topic : " NBFCs in Kerala: A study on financial penetration and asset and liability conditions”
Suggestions and comments:- Primary data can be used to measure the financial Penetration of NBFIs. Dr. Thushara George gave the justification for not taking the primary data and convinced the external expert that study based on secondary data itself is very vast. Sir also advised Tom to give a justification for selecting six s as his sample.

2. Mary Clarat K P

Topic: "Performance of Mutual funds in India: sector wise and scheme wise analysis"
Suggestions and comments: Commented that the title of the study is not suitable when the objectives are concerned and also suggested to make the changes needed.

3. Pranaya S Kumar

Topic: " Foreign Direct Investment: A study on Pharmaceutical sector in India"
Suggestions and comments:- Sir suggested her to give a justification for selecting pharmaceutical sector as the area of her study even though it is in the six position considering the amount of FDI.

4. Eljo Joseph

Topic "An Empirical analysis of trends, patterns and impacts of foreign exchange reserves in India"
Suggestions and comments:- To read more literature and find theoretical support for the optimum reserve level. Also said it would be effective if he focus on a specific area. To identify costs and benefits of forex accumulation in specific scenario or specific issue.

5. Naseera Kuttasseri

Topic- “Gender Responsive Budgeting in Local Bodies in Kerala: A study of Select Grama Panchayats”
Research progress presented: Drafted all chapters - No major suggestions were made by the external expert, but asked some questions for clarification.

6. Karthika K

Topic:- “Economics Of Palliative Care- A Study On Cancer Related Home Based Care”

Research progress presented: Drafted first three chapters- Prepared and standardized the schedule for primary survey- Primary data collection and data entry completed.
Data Analysis is in progress. No major suggestions were made by the external expert, But asked several questions about the work that has been done.

7. Tresa Betsy

Topic:- “Geriatric Care services in Kerala; Pattern of Expenditure and Effectiveness of Institutional Mechanisms with Special Reference to Palliative Care.”

Research progress presented: Primary survey completed. The data set has been compiled and organized for further analysis. External expert asked some questions related to public and private institutional mechanism for clarification.

Under the guidance of Dr. Nirmala Padmanabhan three research scholars presented their research progress. Naseera and Treesa Betsy presented in offline mode, While Karthika presented online, for clarification, the external expert asked several questions about the research topic and progress. Since every scholar is in the final stage, the External expert did not provide major suggestions.

After that Dr Thushara George expressed her gratitude towards Dr. Pradeep for spending his valuable time for evaluating the research progress of scholars by giving his scholarly ideas and suggestions. With that progress review meeting ended at 4.00pm.

Department of English & Centre for Research
HALF YEARLY RESEARCH PRESENTATIONS 2023-24

Presentations Schedule

Date: 8th Jan 2024 Time: 10 am onwards

Sl. no	Name of Scholar	Name of Supervisor	Title	Remarks
1.	Nayomi Rajan	Dr. Anitha R	Imagescaping in Urban Nature: Reimagining Urban Spaces in Select Fictional Narratives	Present
2.	Silja Roy	Dr. Anitha R	Literary Cartography in Territorial Dialectics: A Geo critical analysis of textual Representations of Fort Kochi	Present
3.	Saritha KV	Dr. Anitha R	Constructing the Gendered Subaltern: A study of Selected Works of Bhama	Present
4.	Roby Mathew	Dr. Anitha R	Sea Scaping the Self: An Eco Archetypal Reading of Herman Melville	Present
5.	Feneena S Mohamed	Dr. Anitha R	Aporia of the Mind ,Aphasia in the Text:A Neuroloinguistic Reading of Select Novels of Samuel Beckett	ABSENT
6.	Jishnu Prasad	Dr. Anitha R	The Politics of Subversion:A cultural Critique of Arab Spring	Present
7.	Rekha E.	Dr. Anitha R	Constructing Nation and Gender: A Comparative Reading of Isabel Allende and Jamaica Kincaid	Present
8.	Sreelekshmi A. R.	Dr. Latha Nair R.	Theatre as therapy: The impact of Applied Theatre on students from Shelter Homes	Present
9.	Sebastian A.V.	Dr. Latha Nair R.	Between Frame and Liberal Space: A Reader Response Critique of K Satchidanandan and Ann Morgan	ABSENT
10.	Akshitha Javahar	Dr. Tania Mary Vivera	Locating the African futurist : A Study of Select Science Fiction Works of Nnedi Okorafor	Present
11.	Steve Antony	Dr. Tania Mary Vivera	Exploring the Posthuman Gothic in Select Space Operas	Present
12.	Athira Subin	Dr. Jeena Ann Joseph	The Synthesis of Cognitive Narratology and Bibliotherapy: A Study of Select Fanfictions	Present
13.	Geethu Johny	Dr. Jeena Ann Joseph	The Geopolitical Chronicle of Asia: A Study of Select Works of Dervla Murphy	Present

14.	Anand K	Dr. Latha Nair R.	Learner Autonomy and LMS: an Experiential Study on Multimedia/Mobile assisted Teaching-Learning Pedagogy and Collaborative Learning in Kerala	Present
15.	Nuzhat Unneen	Dr. Priya K. Nair	Interrogating Postfeminism: A study of the media construction of select female celebrity image in India.	Present
16.	Chitra Tracy Johnson	Dr. Priya K. Nair	Politics of Narration in Select Writings by Arab Women	Present
17.	Chitra Sebastian	Dr. Priya K. Nair	Poetics of Banality: Study of Select Malayalam Fiction	Present
18.	Rose Taniya Joly	Dr. Priya K. Nair	The Politics of Erasure and Presencing: A Critical Enquiry into Select Dalit Texts in English Translation	Present
19.	Indu M.S.	Dr. Celine E.	Mythical Cyclorama: A Reading of Indian and	ABSENT

			Chinese Snake Myths	
20	Camilla Diana B.H.	Dr. Tessy Anthony C.	Deconstructing Territories- An exploration on alternative sexualities on selected Post independence Indian English Theatre	Present
21	Renjitha Reghunath	Dr. Tessy Anthony C.	Digital Literature and the Young Adult Fiction: A Study of Digital Media and the Multimodal Reading Experiences of the New Age Readers with specific reference to Wattpad and Figment.	Present
22	Sheelu Alex	Dr. Tessy Anthony C.	Re-negotiating Diasporic Identity: A Study of Select Novels of Amy Tan, Jhumpa Lahiri and Khaled Hosseini	Present
23	Alicen Roshiny Jacob	Dr. Tessy Anthony C.	Gendered View of the Orient: A Study of the Nineteenth Century Travel Narratives by British Women on India	Present
24	Dhinil Sen	Dr. Preeti Kumar	Of 'Sousveilled' Spaces and Catopticons: Reading Sousveillance in Contemporary Indian Narratives	Present
25	Saiparvathy Rajesh	Dr. Preeti Kumar	A Question of Identity and Trauma in Select Life writings: A Study based on Logotherapy	Present
26	Harsha Prince	Dr. Preeti Kumar	Destabilizing Meta-narratives: Mechanics of Archiving in Manu S. Pillai's Works	Present
27	Divya S Hariharan	Dr. Tania Mary Vivera	Towards a Hybrid Instructional Framework: The Case of Enhancing Spoken English skills of OET Nurses from Kerala	Present

Report of Half yearly presentations:

Research Scholar- Nayomi Rajan

Research Supervisor- Dr R Anitha

Topic- Imagescaping in Urbanature: Reimagining Urban Spaces in Select Fictional Narratives.

The research explores the experiential realms of 'urbanature' and the networks of relationships embedded in the cityscape.

Work Done- I have completed four chapters so far. Visited the city of Mumbai as part of my research. Published an article in UGC CARE listed journal.

Suggestion- Suggestions were given on how to frame the conclusion. Also suggested writing a preface to the thesis that will explain the title, the area and the works selected.

Research Scholar- Silja Roy

Guide: Dr. R Anita

Topic: Literary Cartography in Territorial Dialectics: A Geocritical Analysis of Select Textual Representations of Fort Kochi

Progress: Finished the first 3 chapters and completed the first draft of the fourth chapter.

Suggestions by the external expert: To justify the selection of the primary texts in the introduction, to concentrate more on the scope and significance of the thesis. The conclusion has to highlight contemporary relevance of the topic.

Work to be done: Have to finish the final draft of the 4th chapter and also the concluding chapter.

Research Scholar- Saritha KV

Guide: Dr. R Anita

Subaltern women are a marginalised category whose specific status is effected through their multiple and intersectional identities. Dalit and Black women are called subalterns in the sense that they suffer the deepest form of oppression in their respective societies. This thesis focuses on the select works of Bama, and Buchi Emecheta, the writers who represent Dalit and Black feminist discourses respectively. The self-defining life writings of both Bama and Emecheta attempt to denounce and transform the imposed identities and images and seek to unshackle the subjection inflicted by hierarchical social structures. Their literary representations can very well be taken as social documents that contest the assumptions and prejudices about the gendered subaltern community.

Progress of work done- Chapters almost completed. Presently doing correction.

Suggestion of the external expert- suggested to include details regarding the activism of selected writers in order to make it updated and new.

Work to be done- Completion of conclusion chapter incorporating the suggestions.

Research Scholar: Mr. Roby Mathew**Research Guide : Dr. R. Anitha**

Title : Seascaping the Self: An Eco-archetypal Reading of Herman Melville

Work done

I have completed five chapters – Introduction, Chapter on Archetypal Criticism, Application of Archetypal Criticism in the select novels of Herman Melville, Chapter on Ecocriticism and Chapter on the applications of Ecocriticism in the select novels of Melville

Comments from the external expert

The external expert commented that the political, economic and sociological dimensions of the novels should be emphasized to connect the nineteenth century novels with the multifarious dimensions in the 21st century. The expert also opined that it would be desirable to reduce the number of chapters to add depth to the body chapters

Work to be done

The chapter on the intersection of the ecological and archetypal dimensions should be completed

Research Scholar: Jishnu Prasad**Research Guide : Dr. R. Anitha**

The thesis is about the cultural critique of Arab Spring in the select novels of Yasmine El Rashidi, Basma Abdel Aziz, and Benyamin. I presented the ppt before Dr. Suja T.V ma'am today. I have completed five chapters.

Suggestions: Add cultural and economic changes that the Arab Revolution brought to the region, especially in the select countries. Analyze the first-hand experience of native authors with that of the Benyamin. Restate the importance of democracy in the conclusion.

Name of the scholar - Rekha E**Research Guide : Dr. R. Anitha**

Title: Constructing Nation and Gender: A Comparative Reading of Isabel Allende and Jamaica Kincaid

Chapters completed: Four

Progress of work: The correction of four chapters have been completed.

Suggestions: The external expert commented on the importance of the scope of the study. The thesis has to be relevant in the contemporary context.

Work to be done: To complete the final chapter.

Name of the scholar – Sreelekshmi A.R.

Research Guide : Dr. Latha Nair R

Theatre as Therapy: The Impact of Applied Theatre on Students from Shelter Homes

Work done so far:

Completed coursework

Published a paper in a UGC care listed journal

Chapters completed: Nil, Research is at a standstill

Comments/suggestions of the external expert:

The external expert suggested to make use of training colleges for data sampling

Work to be done-: Finalise new Shelter Homes

Research scholar: Dhinil Sen

Research Supervisor: Dr. Preeti Kumar

External Examiner: Dr. Rajesh James

Research Area: Sousveillance Studies

Research Topic: Of ‘Sousveilled’ Spaces and Catopticons: Reading Sousveillance in Contemporary Indian Narratives.

Work done so far

Traced history to understand the threshold of the change from surveillance to sousveillance.

Prepared framework for first chapter and began writing the same.

Feedback

To include more concepts related to catopticons, like eurveillance, uberveillance, etc.

Rearrange framework to ensure materials in literature review are related to sousveillance/surveillance. To include more sources between 1945 – 2012.

Research Scholar: Athira Subin

Research Guide: Dr. Jeena Ann Joseph

The work aims to unveil the true potential of the genre of fanfiction as a means for its practitioners to develop strong psychological coping mechanisms, strategies and resilience to face everyday life. It explores the psychotherapeutic power of fanfictions to mentally equip its enthusiasts to overcome the fatal strikes of depression, anxiety, trauma, bereavement and the like. By using the conceptual frameworks of cognitive narratology and bibliotherapy, it will be able to analyse the social and most importantly, psychological and emotional motives that prompt certain writers and readers to specifically choose the storytelling medium of fanfiction, to artistically express and identify the hidden facets of their personality while consciously or unconsciously engaging in psychotherapy.

In *Narrative Theory and Cognitive Sciences*, David Herman defines the theory as a subdomain of post classical narratology that deals with “the study of mind-relevant aspects of storytelling practices, wherever—and by whatever means—those practices occur”. That is, cognitive narratology, as a theoretical framework, zooms in on how readers, writers or listeners engage with narratives, construct mental representations of story worlds, and make sense of characters, events, and themes.

Bibliotherapy, developed by Samuel Crothers, is an emerging field within the realm of medical humanities, that harnesses the therapeutic potential of literature to promote mental health and facilitate personal growth. It uses literature, including novels, poems, short stories, and other written materials, to

support individuals in understanding and addressing their emotional, psychological, and personal challenges.

RESEARCH PROGRESS: After the period of course work (Sep 1 2022) till date, the focus has been on the preparation of the first chapter that deliberates on the core theories and concepts used throughout the work. The chapter has been tentatively titled “The Healing Arc: Exploring the Synergy of Cognitive Narratology and Bibliotherapy”. It aims to explore the areas of intersection between cognitive narratology and bibliotherapy which lies in the recognition that narratives have appreciable implications on human cognition, emotions, and personal development. Both fields acknowledge the immense power of storytelling and its potential to influence individuals' attitudes, and behaviours.

SUGGESTIONS BY EXTERNAL EXPERT: To expand the research work by tracing the shift from narratology to cognitive narratology in Chapter 1 and to read fanfictions as mediated narratives as opposed to unmediated ones.

WORK TO BE DONE: Aims to restructure Chapter 1 titled, “The Healing Arc: Exploring the Synergy of Cognitive Narratology and Bibliotherapy”, in accordance with the suggestions recommended by the subject expert.

Research Scholar: Geethu Johny

Research Guide: Dr. Jeena Ann Joseph

Title: The Geopolitical Chronicle of Asia: A Study of Select Works of Dervla Murphy

Through the literary genre of travel writing, the factors of geography, politics, and culture are studied. Further research was done on the identity question as well as the concepts of refugeeism and trauma experienced by refugees.

It was recommended by the external expert to concentrate on the geopolitics of travel writing and to include issues of power and space.

A paper titled Identity and Displacement: An Analysis of A Month By The Sea: Encounters in Gaza was presented at a national conference organized by the Department of English, Kristu Jayanti College, Bangalore.

The following few months will involve the collecting of materials on the geopolitics of travel writing.

Name of Scholar: Steve Antony

Supervisor: Dr. Tania Mary Vivera

Title of research: Exploring the Posthuman Gothic in Select Space Operas

Progress in research:

1. Work done by the researcher this semester includes going through primary texts and selecting the theory texts.
 2. A basic outline of the theory chapter has been created.
 3. The researcher has drafted a research paper titled “Reshaping Identity: Masculinity, Body Enhancement, and Marginalization in ‘Love, Death and Robots’ “
 4. The researcher has given several presentations and submitted certain assignments as part of coursework
- A. Presentations given as part of coursework:
- a) Gothic Literature

b) 'Against Interpretation'

B. Assignments completed as part of coursework:

a. Research Ethics – Citation databases

b. Research Methodology – Methods and Techniques of Research

c. Developments in Literary Studies – 'Against Interpretation'

d. Course 4 – Gothic Literature

Suggestions of the external expert:

Dr. Rajesh James, the external expert, suggested changes to the theory chapter, recommending having one theory chapter (posthuman Gothic) as opposed to two (Posthumanism and Gothic literature). He also encouraged taking a mixture of visual, literary and graphic narratives as the core texts. His rationale behind it was having the core texts being a combination of different media will ultimately lead to a more comprehensive and multi-faceted study of space operas. He also suggested a way to deal with the issues facing the selection of core texts, that is, by choosing multiple texts from a single author, basing each chapter on an author.

Work to be done:

The work to be done involves drafting the theory chapter, and then applying the theory to the core texts.

Name of the scholar: Akshitha Javahar

Research guide: Dr. Tania Mary Vivera

Title: Locating the 'Africanfuturist': A Study of Select Science Fiction Works of Nnedi Okorafor
Brief Synopsis

The study would attempt to theoretically define Africanfuturism, a term coined by Nnedi

Okorafor to differentiate the science fictional works of African writers from those of African-American writers or Afrofuturists. The study would also trace the evolution of African Science Fiction (ASF) as a distinct sub-genre of science fiction and Okorafor's role in its development. In addition to that, the study would also aim to identify the key features of Okorafor's writing. Furthermore, the research would be textual in nature and would chiefly draw from the critical traditions of science fiction, fantasy literature, African literature, and postcolonialism. The theoretical contributions of critics such as Darko Suvin, Carl D. Malmgren, Istvan Csicsery-Ronay, Rosemary Jackson, Farah Mendlesohn and John Rieder would be given particular emphasis during the course of the study.

Progress of the research

After completing the course work on September and appearing for the internal exams the same month, dedicated attention to research was paid from October to the month of January. Apart from reading all the primary texts selected, critical works of early science fiction such as Darko Suvin's *Metamorphosis of Science Fiction* (2016) and Carl D. Malmgren's *Narratology of Science Fiction* (1991) were studied and their implications for ASF were analysed. Similarly, John Rieder's *Colonialism and the Emergence of Science Fiction* (2008), a major theoretical contribution to the area of postcolonialism and science fiction, was also read and analysed. Furthermore, other key critical works on fantasy such as those by critics such as Rosemary Jackson and Farah Mendlesohn were identified. In addition to that, two research assignments were also completed during the period.

Suggestions of the External Expert

The expert recommended reading the works *Africa in Theory* (2014) by Achille Mbembe and *Theory from the South Or, How Euro-America is Evolving Toward Africa* by Jean Comaroff and John L. Comaroff.

Work to be done

To focus on the recent works of SF criticism.

□ To study the critical tradition

Name of the scholar: Chitra Tracy Johnson

Research guide: Dr. Priya K Nair

Working thesis title: Politics of Narration in Select Writings by Arab Women

Work Progress: Completed the first draft of all my core chapters. During the past months I have been reworking and editing the same.

Comments/Suggestions by External Expert:

The external expert asked to give more clarity to the theoretical framework. As I have reached towards the close of my research area, he asked to clarify this with my research guide.

Name of the scholar: Rose Taniya Joly

Research guide: Dr. Priya K Nair

Title of Research Work The Politics of Erasure and Presencing: A Critical Enquiry into Select Dalit Texts in English Translation

Brief report on work done during the period

- Participated in the International Memory Studies Conference: “Memory, Ecology, and Sustainability” organized by the Centre for Memory Studies, IIT Madras from 20-22 September 2023
- Participated in the online workshop “The Essential AI Toolkit” organized by the Wordwatch Foundation on 12 September 2023
- Submitted a paper and awaiting response
- Chapter division completed (tentative)
- Submitted first draft of chapter 2

Comments by External Examiner

a) Works to refer:

- i. P. Bhaskaranunni: Pathompatham nootandile Keralam
- ii. Gopal Guru
- iii. Sunny M. Kapikad: Janathayum Janadipathyavum: Dalit Vijnanthinte Rashtriya Padangal

Name of the Research Scholar: Sai Parvathy I R

Name of the Research Guide: Dr. Preeti Kumar

Tentative Research Topic Title: A Question of Identity and Trauma in Select Life Narratives: A Study Based on Logotherapy

Brief Report:

A presentation was done on the research area to highlight the progress of the research work from the research period August 2023 to January 2024 .

Historicity of Trauma Studies,

Pluralistic Approach in Trauma Literature, Cathy Caruth and the like minded recent theorists particularly their contributions were given prominence in the Presentation. Also 12 graphic narratives depicting war trauma was also presented for picking primary texts for the research.

The External Expert Dr.Minu Susan Koshy appreciated with the following remarks:-Good Presentation, In Depth Reading, Sufficient background reading for trauma theory

Suggestions Made: -

If possible cut down logotherapy and turn it to a comparative study of war graphic narratives of East and West by selecting 4 primary texts of the same for each side.

Name: Divya Hariharan

Supervisor: Dr. Tania Mary Vivera

Topic: Towards a Hybrid Instructional Framework: The Case of Enhancing Spoken English Skills of OET Nurses from Kerala.

Work Done So Far (from July 2023 to Jan 2024)

- A. Prepared Questionnaire is under the process of validation. (submitted to Teresian Consultancy Services)
- B. Abstract (Paper Presentation) selected for National Conference on English Language Teaching (ELT) and Literature in 21st Century (24th Jan 2024) (AMET University, Tamil Nadu)

Workshops-State level online workshop –Academic horizons-The AI Integration-8th-15th Dec 2023.
Webinar -Research in ELT- Dr. Mangai (14/12/2023)

Online Sessions-1

- A. Session on Software Tools-TRACC -15th July 2023.

Library Visits (data collection and field work)

- A. SJCTE Library (St. Joseph College of Teacher Education)
- B. MGU, Kottayam

Institute Visits

- A. Ajinorah -Edappally.

Suggestions of the External Expert:

- A. Focus more on theoretical form.
- B. Suggested for more reading.

Work to be Done

- A. Validated questionnaire will be used to conduct pilot study.
- B. Conduct pre intervention assessment.
- C. Theories intended to be applied: Paul Grice's Cooperative principle-based on Austin's SAT.
- D. Interactional Competence-IC based on CA.
- E. Kaumaravadivelu's Micro strategies.

Name: Anand K.

Supervisor: Dr. Latha Nair R

Topic: Learner Autonomy and LMS: an Experiential Study on Multimedia/Mobile assisted Teaching-Learning Pedagogy and Collaborative Learning in Kerala.

Brief report on work done during the period: Sampling in progress, Writing for research (Paper)

Dr. Minu Susan Koshy was appreciative of the research activities carried over the last six months. Her suggestions/inputs during the half-yearly held at July, 2023, was accommodated by the researcher, especially, regarding inclusion of heterogenous populace for sampling. A few of the experiments conducted so far was briefed, and Dr. Minu liked its academic merit and scope. She suggested to keep an eye on the upcoming NEP2020 and FYUGP implementations.

As mentioned in the July session, limitation of not being able to use LMS (esp. due to paid packages and lack of funding/revenue/support) was pointed out. Hence, LMS may be omitted from the title, and the focus of research on Learner Autonomy will be carried out through mobile-multimedia assisted teaching-learning pedagogy.

The Report (with amendments over progress, if any) shall be submitted for signatures from the external expert, the research supervisor and the Principal, after 29 Feb., 2024 (Wherein the Researcher's fourth half-yearly tenure will logically come to an end).

Name: Nuzhat Unneen

Supervisor: Dr. Priya K Nair

Title: Interrogating Postfeminism: A study of the media construction of select female celebrity images in India.

Work done so far: Chapter constructions are over. Minor corrections are being done.

Chapters Completed: 6 chapters including Introduction and Conclusion are finished.

Name: Chitra Sebastian

Guide: Dr. Priya K. Nair

Title: Poetics of Banality-A Study of Select Malayalam Fiction

In my research titled Poetics of Banality-A Study of Select Malayalam Fiction, I have explored 'Khazakkinte Ithihasam,' 'Aalkkoottam,' and 'Ushnamekhala.' Currently, three chapters are completed, examining the historical dimensions of boredom, the liminality in 'Khazakkinte Ithihasam,' and the portrayal of banality in 'Ushnamekhala.' The external expert recommended a thematic division of chapters and a slight modification of the research title. The ongoing work includes a detailed analysis of 'Aalkkoottam' and further synthesis, aiming to contribute significantly to the understanding of banality in Malayalam fiction.

Name: Camilla Diana

Guide: Dr. Tessa Anthony C

1) Title : Deconstructing Territories: An Exploration on Alternative Sexualities in Selected Post Independence Indian English Drama

2) work done so far: Submitted 5 chapter and working on the final draft of the thesis

3) chapters completed: 5 chapters completed

4) comments/suggestions of the external expert: To read on the ideas of Heidegger and focus more on the idea of territory

5) work to be done: Publication of research paper in Care listed Journal is pending

Research Scholar : Renjitha Reghunath

Research Guide : Dr. Tessa Anthony.C

Title of the Thesis : Digital Literature and the Young Adult Fiction: A Study of Digital Media and the Multimodal Reading Experiences of the New Age Readers, with Specific Reference to Wattpad and Figment.

The research contributes to a deeper understanding of the evolving landscape of digital reading, shedding light on the implications for both the platform and its young adult user base in the context of surveillance capitalism. By examining the complex dynamics that govern digital reading platforms, the study aims to provide valuable insights into readership patterns, particularly focusing on the implications for young adult

users. The analysis explores how surveillance capitalism, driven by economic interests, influences user behaviour, content creation, and platform engagement on Wattpad.

Work done so far: Fine tuning the first draft of the research thesis.

Chapters Completed: Five chapters submitted. Review in progress

Comments/Suggestions of the external expert:

1. To merge concepts of culture industry, and Horkheimer and Adorno into the fourth chapter.
2. To specify and focus on 'figment' as a negative example.
3. Explore concepts like sousveillance and Catopticon.
4. Work to be done: waiting for the survey results and interview ten more authors.

Research Scholar : Alicen Roshiny Jacob

Research Supervisor : Dr. Tessy Anthony C.

Topic - Gendered View of the Orient: A Study of the Nineteenth Century Travel Narratives by British Women on India

The research involves the analysis of the travel narratives by British women who arrived in India during the nineteenth century in various capacities, such as wives of officers, missionaries, travellers etc. using the lens of gender and post-colonialism.

Progress: Fine tuning chapter 3

Suggestions: To find a way to negotiate Orientalism and Occidentalism. To apply theories on gender and to see if ecofeminism is applicable in the study.

DEPARTMENT OF PHYSICS AND CENTRE FOR RESEARCH
TRACC-HALF YEARLY PRESENTATION REPORT

The biannual meet TRACC 2023-24 was conducted on 8-1-2023. After the official ceremony, the half yearly presentation of the following Research Scholars was conducted in the department which was evaluated by the external expert Dr. Poornima N, Assistant Professor, St. Paul's College, Kalamasserry.

Name of the Scholar	Name of the Guide	Title
Pravitha V	Dr Kala M.S	Electrospun PVDF/CNC nanocomposite for EMI shielding
Divya Rajan	Dr. Santhi A	Photocatalytic degradation of Methylene Blue using hematite and its noble metal nanohybrids
Anjali G	Dr. Kala M.S	The influence of defects on linear and nonlinear optical properties of MoO ₃ and boron doped MoO ₃ nanoparticles



Department Of Sociology and Centre for Research

Half yearly Progress Report (June 2023 to January 2024)

Presentation Date: 8th and 9th January 2024

Venue: Department of Sociology AV Room (Day 1)

The presentation commenced at 12:30 PM in the Department of Sociology AV Room. The session was graced by the presence of esteemed faculty members, supervisors, and the External Subject Expert Dr Biju Vincent (Asst. Professor Sociology, SSUS, Kalady).

1. Mohan Mathew: presented "The Changing Agrarian Social Structure and the Social Relations in Kuttanadu." a brief overview of the objectives and anticipated research design was shared and reworked the focus area specifically on to the land ownership.
2. Alphonsa Kurian: delved into "Women Empowerment in Latin Fishing Community: A Study on the Role of Caste, Geography, and Social Networks." The scholar detailed the research's objectives, research design, and the intricacies of the chosen methodology, receiving valuable insights from the External Subject Expert.
3. Lara R.N: explored "Exploring Professional Dignity and Job Satisfaction of Millennial Nurses in Clinical Workplaces." The scholar discussed objectives, literature review, and ongoing academic activities, receiving guidance on theoretical concepts and methodological framework from the External Expert.
4. Femi Ann Mathew: intended to explore "Living in the Fringes: An Ethnography of Women in Chellanam." Explained objectives and research design which focuses on ethnography and phenomenological approaches and discussed various progress over the year.
5. Sreelaksmi C.S: presented "Redefining Gender And Sexuality: A Sociological Deconstruction into the Lives of Men Who Have Sex with Men (MSM) Identities." The scholar received feedback to incorporate more qualitative techniques and provide clarity in respondent selection.
6. Abhijith Kesav: discussed "Social Determinants of Health Seeking Behavior and Perception of Ayurveda among the Population of Kerala." The scholar outlined objectives, dimensions of study, and emphasized sociological theories applied, receiving commendations for the comprehensive approach.

Day 2:

The presentations on the second day at the Library AV Room commenced promptly at 10:00 AM. Supervisors, faculty members, and External Subject Experts congregated to review the scholars' progress.

1. Geethu P.G: offered insights into "'Transworld': A Sociological Discourse on the Life and Experiences of Transgenders." The scholar detailed methodologies and future plans, receiving recommendations to refine objectives and review questionnaire validity.
2. Sanjose A Thomas: scrutinised "Development Induced Displacement And Social Disarticulation Of Displaced People In Kerala With Special Reference To Nedumbassery Airport Project." The scholar was guided to consider mixed methods and potential qualitative research in their investigation.

3. Sheela Abraham: presented "Religious Communities and Social Development - A Study On Catholic Nuns In Kerala." Valuable suggestions were given to use sociological terminologies and consider a mixed-method approach for a more holistic analysis.

4. Athira Sugathan: delved into "Marumakkathayam to Makkathayam in Malabar Region: A Structural Analysis." The scholar received guidance to delve into Indian Family System literature and explore power structures. Also asked to look further back in timeline to gain more concrete foundation. Comments were received to modify the functional aspect present in the study.

5. Dinu K: focused on "Religious Conversion and Identity: Understanding the Determinants and Impact of Dalit and Non-Dalit Conversion to PRDS." Despite title and objective revisions, experts cautioned against excluding Dalits and emphasized tracing societal evolution of renaissance for a holistic understanding.

6. Avani J. Nath: conducted research on "Social Vulnerability during Disasters-A Study among Fishing Communities in Kerala." The expert advised on careful sampling methodology and sample selection to ensure the study's depth and breadth.

7. Aswathi A: examined "Socio-Cultural Life and Worship: A Sociological Analysis of Sacred Groves in Kerala." Recommendations were made to alter the title and reconsider the methodology to enhance the study's depth and authenticity.

The presentations were insightful, with scholars receiving invaluable guidance and feedback to refine their research trajectories.





**DEPARTMENT OF BOTANY AND CENTRE FOR RESEARCH
ST. TERESA'S COLLEGE (AUTONOMOUS), ERNAKULAM**

Report of Half yearly presentations of research scholars

External Examiner: Dr. Jaseela F., Assistant Professor and Research Guide
Dept. of Botany, Maharaja's College, Ernakulam

Date: 19/12/ 2023; Time 10. 00 am.

Details of Presentation of research scholars				
Sl. No.	Name of Scholar	Title and abstract of Research Work	Name of Research Guide	Status
	Thomas Antony	Ethnobotanical studies of plants used in the treatment of livestock diseases by selected tribes of Kerala	Dr. Lizzy Mathew	
	Haritha R. Nair	Plant diversity and microenvironment interaction studies of selected.	Dr. Lizzy Mathew	
	I. K. Nishitha	Phytochemistry and Cytotoxicity of selected Rhodophytes of Kerala Coast.	Dr. Lizzy Mathew	
	Sheba P. T.	Phytochemistry, Pharmacognosy and Biological Activity of Selected Species of <i>Annona L.</i>	Dr. Elsam Joseph	
	Juliya V. Devasia	Phytochemistry and Antioxidant potentials of selected species of plants used against cancer in Traditional Medicine.	Dr. Elsam Joseph	(Not Presented)
	Cynthia Mitchell Dias	Phycosynthesis of Silver Nanoparticles Using Selected species of Phaeophyceae and its Pharmaceutical Potential.	Dr. Elsam Joseph	(Not Presented)
	Glaxy Esekel V.	Isolation and characterization of plastic degrading bacteria from plastic polluted water samples of Ernakulam district.	Dr. Romilly Margaret Mendez	
	Athira R. K. Nair	Phytochemical characterization and bioprospecting of <i>Medinilla beddomei</i> Cl.	Dr. Elsam Joseph	
	Akhila George	Phytochemical Screening and Nutraceutical Potentials of Selected Species of Citrus in Kerala	Dr. Elsam Joseph	
	Joycy Varghese V.	Bioprospecting of selected varieties of <i>Colocasia esculenta</i> (L.) Schott.	Dr. Elsam Joseph	
	Smitha Thomas	Plant growth promoting Rhizobacteria of selected vegetables in Kerala and its molecular characterization.	Dr. Lizzy Mathew	
	Drisy K. Reghuvaran	Bioprofiling and Bioassays of the genus <i>Polygala</i> , l.in south india.	Dr. Lizzy Mathew	
	Mary Joseph	Bioprospecting of selected Filicophyta (<i>Ferua</i>) and biosynthesis of Nanoparticles	Dr. Lizzy Mathew	

		using its extracts.		
	Michael Thomas	Ecological Assessment of the diversity of Vascular Flora of Pothenzpuzha – Valiyakavu forest area	Dr. Krishnaraj M. V.	
	Remya R.	Reproductive Biological studies in selected Legume Tribes: Crotalariaeae, Indigofereae and Dalbergieae – Kerala	Dr. Krishnaraj M. V.	
	Gopika Suresh	Studies on the reproductive biology, population ecology and conservation Sanjappa cynometroides (Bedd.) ER Souza et Krishnaraj (Leguminosae: Caesalpinioideae) from Southern Western Ghats, India.	Dr. Krishnaraj M. V.	

Out of the 16 registered scholars 14 scholars presented the report of research work.

Dr. Elsam Joseph
Research coordinator of the Dept.

Dr. Liza Jacob
Head of the Department

**Department of Home Science and Centre for Research
PhD RESEARCH PRESENTATION – HALF YEARLY**

January 2024 – June 2024

The half yearly presentation of research scholars under the Department of Home Science, St. Teresa's College, Ernakulam, was conducted on 08/01/2024 at 11:30 am. The external expert for Batch 1 was Dr. Annie Ninan and the internal expert was Dr. Rashmi. H. Poojara. Listed below are the details of scholars.

SLNo.	Name of the scholar	Title	Supervisor	Remarks
1.	Nimmi Jacob	Screening and Extraction of pigments from plant sources and its food application	Dr. Shilpa Jose	Present
2.	Ani Thomas Thottan	Vitamin D status and its health impact on Women	Dr. Anu Joseph	Present
3.	Anitha Begum A S	A Comparitive study on the Quality of Food provided in Food Outlets and Households in Malappuram District in Kerala and the Association with Lifestyle Diseases	Dr. Anooja Thomas	Present

4.	Arathi Amarnath. M	Multidimensional health behaviours related to screen-time use among adolescents	Dr. Shilpa Jose	Present
5.	Sr Elizabeth Joseph	Effectiveness of indigenous iron supplements and nutrition education among anemic college girls (18-23 years) in Kottayam district	Dr. Betty Rani Isaac	Present
6.	Najma Chokli	Development and evaluation of nutricookies designed for type 2 diabetes and impact on intervention	Dr. Anooja Thomas	Present
7.	Neethu Ravikumar	Comparative study on the Maltese cross pattern of starch granules of selected rice varieties	Dr. Anooja Thomas	Present
8.	Ms. Priyanka P S	Identification of bioactive components of edible cashew nuttosta and development of nutraceutical	Dr. Betty Rani Isaac	Present

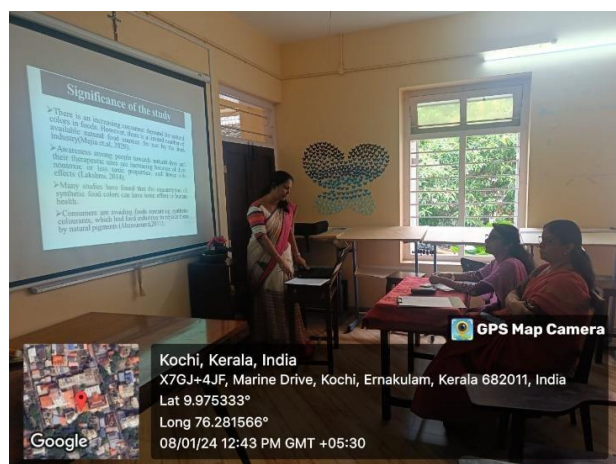
9.	Rajimol K.C	Nutritional profile, Nutritional KAP and performance level of female athletes of 18-23 yrs of MG university and affiliated colleges	Dr. Anooja Thomas	Present
10.	Binu Emmanuel	Development of value added products using selected millets and its popularization	Dr. Anu Joseph	Absent
11.	Minu Mathews	Factors Determining the Convenience Food Purchase Behaviour and it's Impacts- An Exploratory Study	Dr. Leena Leon	Absent
12.	Teena Kurian	Food safety and food hygiene practices of outdoor catering units in Kottayam District, Kerala	Dr. K. S. Kumari	Present
13.	Renu K Abraham	Prevalence of hypothyroidism among adult cardiovascular patients and the dietary recommendations for them	Dr. Leena Leon	Present

A brief report on all the presentations are given below:

1. Name: Nimmi Jacob

Topic: Screening and Extraction of pigments from plant sources and its food application

Report: The scholar has presented her study specifying the objectives and methodology followed by the work done so far. She had stressed upon the number of samples screened for food pigment extraction. The scholar has collected Review of literature for her study and also attended ReAP - Research advancement programme organized by the Home Science Department.



2. Name: Ani Thomas Thottan

Topic: Vitamin D status and its health impact on women

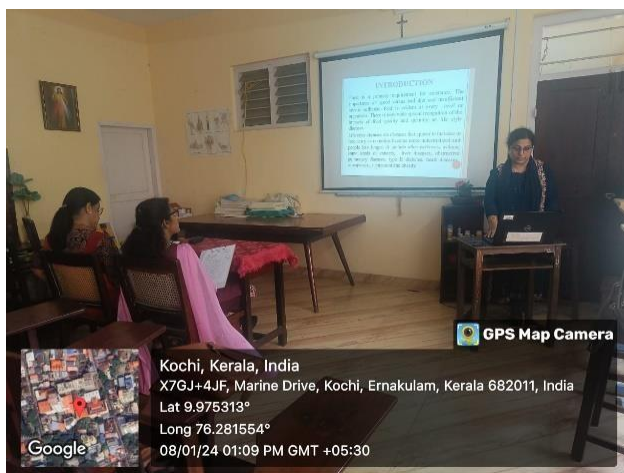
Report: Presented the half yearly progress of the study. Currently data collection is going on and once completed compilation and tool for intervention will be developed. The external gave suggestion to make methodology clearer in presentation.



3. Name: Anitha Begum

Topic: A Comparative Study on the Quality of Food Outlets and Households in Malappuram District and the Association with Life Style Diseases.

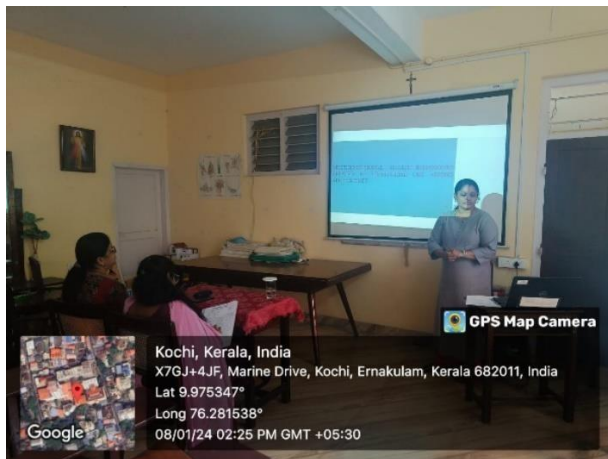
Report: Presented my half yearly report on my study. Suggestions given by the subject expert was really useful.



4. Name: Arathi Amarnath. M

Topic: Multidimensional Health Behaviours Related to Screen-time Use Among Adolescents.

Report: Pilot study completed. Attended various workshops related to research work. No comments from the panel.



5. Name: Sr Elizabeth Joseph

Topic: Effectiveness of Indigenous Iron Supplements and Nutrition Education among Anaemic College Girls (18-23 Years) in Kottayam District

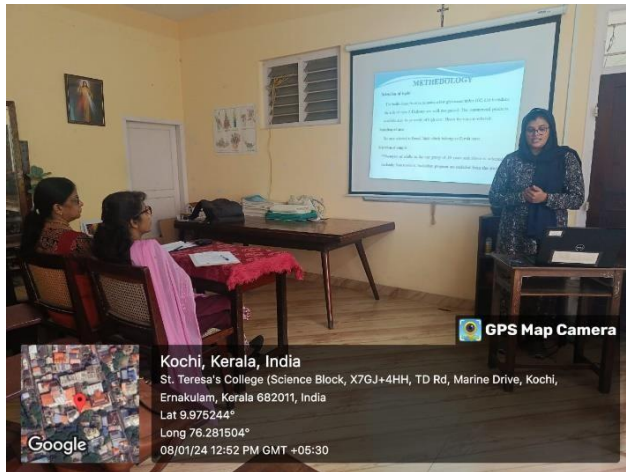
Report: I successfully completed the course work period, examination and is now waiting for the result. Collected reviews from journals, books and other relevant sources. Preparation of questionnaires are almost completed and standardization is under processing. Currently, I am preparing documents for ethical clearance. Development of Iron supplements and fortification stages are progressing.



6. Name: Najma Chokli

Topic: Development and Evaluation of nutricookies designed for Type 2 Diabetes and Impact on Intervention.

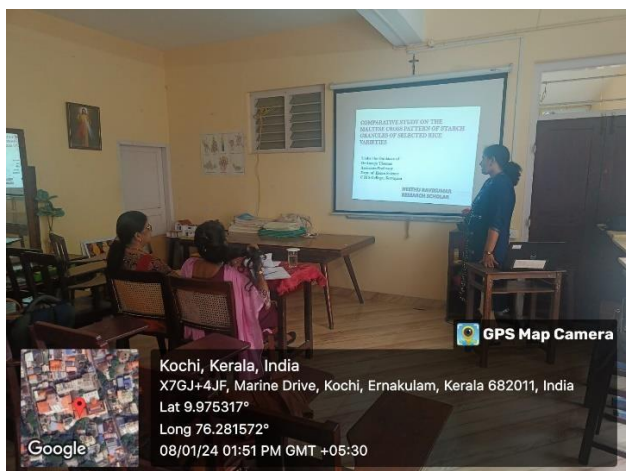
Report: Explained the methodology and last six-month progress of the study. The study aims to develop nutricookies designed for type 2 diabetes and to find out the impact of intervention.



7. Name: Neethu Ravikumar

Topic: Comparative study on the Maltese cross pattern of starch granules of selected rice varieties

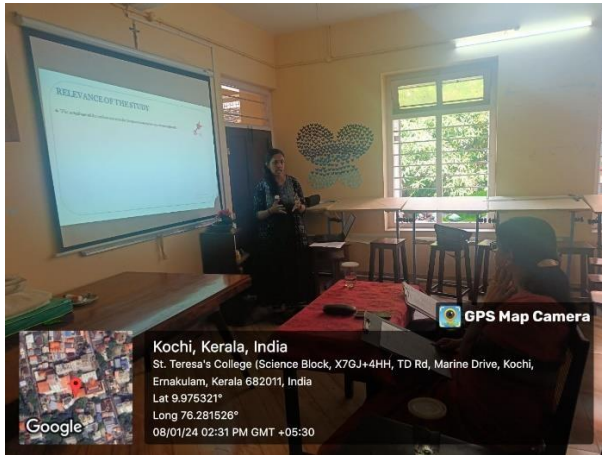
Report: Completed the Pre- PhD Presentation on Dec 7,2023.



8. Name: Priyanka PS

Topic: Identification of bioactive components of cashew nuttesta and development of a nutraceutical.

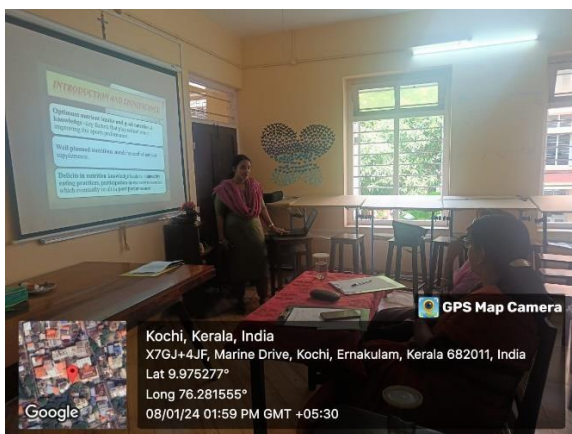
Report: The half yearly progress from July '23 to Dec '23 was presented before the external examiner on 8. 01.2024. The report included results of phase 1- 3 of the research design. No suggestions were given by the examiners except a query on anti-inflammatory studies and the process of the product development.



9. Name: Rajimol K.C

Topic: Nutritional Profile, Nutritional KAP and Performance Level of Female Athletes of 18-23 Years of MG University and Affiliated Colleges

Report: Half yearly presentation for the period July to December 2023 was presented. Ms. Rashmi and Ms. Annie asked questions regarding the execution of study. The teachers gave valuable suggestions regarding the study and pointed out limitations of the study.



10. Name: Teena Kurian

Topic: Food Safety and Food Hygienic Practices of Outdoor Catering Units in Kottayam District, Kerala

Report: Data collection over. Microbial analysis of food samples conducted. Completed 3 chapters of report writing and writing of results are in progress.



11. Name: Renu K Abraham

Topic: Prevalence of Hypothyroidism Among Adult Cardiovascular Patients and the Dietary Recommendations for Them.

Report: Two spell Courses work completed. Completed 4 papers theory examination and waiting for the results. Attended various seminars and workshops related to the research work.



PHD RESEARCH PRESENTATION – HALF YEARLY

The Department of Home Science at St. Teresa’s College, Ernakulam held its biannual research progress presentation on January 8th, 2024 at 11:30 am. The second batch of scholars was assessed by a panel consisting of Dr. Lizmitha Godwin as the external expert, Dr.Nisha Vikraman as the internal expert, and Dr. Susan Cherian serving as the chairperson. Listed below are the details of the 15 scholars and their research work.

SLNo.	Name of the scholar	Title	Supervisor	Remarks
1.	Akshaya.E	An evaluative study to assess school readiness among rural and urban anganwadi children in kannur district	Dr. Nisha Vikraman	Present
2.	Jyothi.S	A Study on the Severity of Smartphone Usage among School Children (Between 6 to 8 years) in Ernakulam	Dr. Dhanya N	Present
3.	Azra Nasreen V	Developing sustainable plans for transforming selected Anganwadies in the coastal belt of kochi to utilitarian early learning centres	Dr. Dhanya N	Present
4.	Sushmitha S Kamath	Enhancing achievement in mathematics among children through multiple intelligence teaching strategies	Dr. Thara Sebastian	Present
5.	Teresa Kuncheria	Emotional Intelligence and factors contributing to resilience of weavers in the flood affected units of Chendamangalam Handloom	Dr. Thara Sebastian	Present
6.	Nair Supriya Damodaran	Development of clothing for differently abled children using natural dyed cotton fabrics	Dr. Dhanya N	Present
7.	Lenus Deepa Francis	Development and implementation of age appropriate activities for foundational stage of education in accordance with the curriculum NEP 2020	Dr. Betty Rani Isaac Co- guide: Dr. Dhanya N	Present

8.	Maria Shaji	Developmental and Health Status of the Tribal Children in Idukki District	Dr. Betty Rani Isaac	Present
9.	Surya M. Kottaram	Risk Factors of Metabolic Syndrome among Adults (30 to 59 years) in Kochi	Dr. Betty Rani Isaac	Present
10.	Grace Ann Mathew	Parental perception on Early childhood care and education in Ernakulam district	Dr. Nisha Vikraman	Present
11.	Madhumitha Rajendraprasad	Nutritional assessment and dietary intervention for children (3-10 years) with Autism Spectrum Disorder	Dr. Shilpa Jose	Present
12.	Teena Thomas	Development and Commercialisation of value added ready to cook chapatis	Dr. Anu Joseph	Present
13.	Ann Mathew Pampackal	Product development and popularisation of millet milk and power	Dr. Anu Joseph	Present
14.	Rose Mary Francis	Housing needs concerns and problems of elderly – A multifaceted study	Dr. Anooja Thomas	Present
15	Leena George	Conceptualization, Implementation and Evaluation of Structured Reading Programme for improving the Reading Competency among Lower Primary School Students in selected area in Ernakulam	Dr. Dhanya N	Present

A brief report on all the presentations is as follows:

1. Akshaya. E

Title: An evaluative study to assess school readiness among rural and urban anganwadi children in kannur district.

Report: Developed an observational scale for assessing school readiness among Anganwadi children and prepared an ecce training module for Anganwadi teachers.

2. Jyoti S

Title: *A Study on the Severity of Smartphone Usage among School Children (Between 6 to 8 years) in Ernakulam*

Report: The presentation went well and suggestions given by the external experts were noted down by the presenter and will be incorporating in the study.

3. Azra Nasreen V

Title: *Developing sustainable plans for transforming selected Anganwadies in the coastal belt of Kochi to utilitarian early learning centres.*

Report: Participated in training program on ECCE conducted by NIPCCD. Interacted with CDPOs, ICDS Supervisors, AWWs and other relevant officials regarding the suggestions for module preparation.

4. Sushmitha S Kamath

Title: *Enhancing achievement in mathematics among children through multiple intelligence teaching strategies*

Report: The presentation went well. The experts suggested to bring more clarity to one of my objectives.

5. Teresa Kuncheria

Title: *Emotional Intelligence and factors contributing to resilience of weavers in the flood affected units of Chendamangalam Handloom*

Report: The study seeks to understand the resilience of weavers in the Flood affected units of chendamangalam handlooms. The survey part of the study has progressed to the data collection stage. The questionnaires for the study have been standardised and data collection is underway. The second part of the study has also progressed to the second level where data from secondary sources have been collected and a source book of design for handloom products is being developed.

6. Nair Supriya Damodaran

Title: *Development of clothing for differently abled children using natural dyed cotton fabrics*

Report: data collection going on to know the clothing problems faced by the children with cerebral palsy and autism

7. Lenus Deepa Francis

Title: *Development and implementation of age appropriate activities for foundational stage of education in accordance with the curriculum NEP 2020*

Report: The presentations went well. The methodology was discussed and suggestions were given to increase the number of samples, meet statistician to finalize sample size and choose institutes which already started NEP.

8. Maria Shaji

Title: *Developmental and Health Status of the Tribal Children in Idukki District*

Report: The study is in the data analysis phase. Suggestions were given by the experts on the title of the study. More clarity will be added to the matters discussed.

9. Surya M. Kottaram

Title: *Risk Factors of Metabolic Syndrome among Adults (30 to 59 years) in Kochi*

Report: Investigator conducted a medical camp for data collection and developed Computer Application software for patient education and motivation was finalized. Awaiting further technical approval for independent website.

10. Grace Ann Mathew

Title: *Parental perception on Early childhood care and education in Ernakulam district*

Report: Completed analysis of awareness pre and post test. Started analysis of the main study.

11. Madhumitha Rajendraprasad

Title: *Nutritional assessment and dietary intervention for children (3-10 years) with Autism Spectrum Disorder*

Report: During the past 6 months literature review was conducted and various seminars were attended. Translation of the Brief Autism Mealtime Behaviour Inventory was done for validation later on, content for the Autism Nutrition Tracker was finalized in English and Malayalam, autism nutrition awareness classes were conducted for special educators of SSK (Samagra Shiksha Kerala)

12. Teena Thomas

Title: *Development and Commercialisation of value added ready to cook chapatis*

Report: Conducted a training programme at CFTRI, completed course work exams. Suggestion mention kannur in title.

13. Ann Mathew Pampackal

Title: *Product development and popularisation of millet milk and power*

Report: During the past 6 months literature review was conducted and various seminars were attended. Data collection and analysis of the survey in the process.

14. Rose Mary Francis

Title: *Housing needs concerns and problems of elderly – A multifaceted study*

Report: Pre synopsis presentation is done on 25th September 2023. Synopsis submitted on 29th December 2023. A Paper presentation is done at an International Conference on 5th January 2024. Planning to submit Thesis by March 2024

15. Leena George

Title: *Conceptualization, Implementation and Evaluation of Structured Reading Programme for improving the Reading Competency among Lower Primary School Students in selected area in Ernakulam*

Report: Methodology presented and results tabulated with objectives were discussed alongside Reading Competencies.

Images of presentation:

