

# **THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN**

A Minority Institution Sponsored by Seethakathi Trust, Chennai.

Recognized by DBT under Star College Scheme, Ministry of Science and Technology, Govt of India.

An Autonomous Institution Affiliated to Alagappa University, Karaikudi.

Accredited by NAAC with “A” Grade [CGPA: 3.16] & ISO 9001:2015 Certified Institution.

Recognized by UGC under 2(f) & 12 (B).Kilakarai – 623517,

Ramanathapuram District, Tamil Nadu

## **RESEARCH AND DEVELOPMENT CELL**



## **RESEARCH ACHIEVEMENTS FOR THE YEAR 2023-2024**

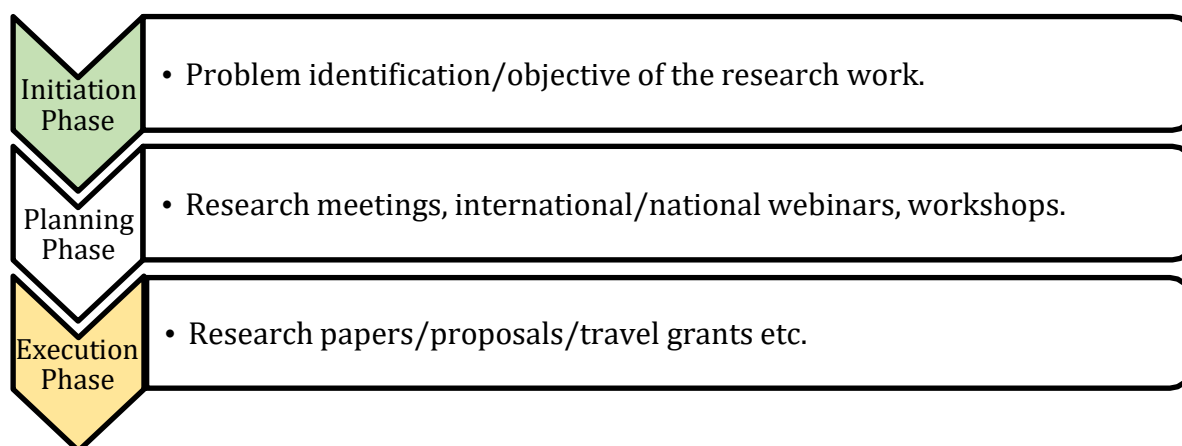
## RESEARCH AND DEVELOPMENT CELL:

The **Research and Development Cell** at TBAK College operates with the primary goal of fostering a research culture, supporting faculty and students in research activities, and enhancing research output in terms of publications and projects.

The **Research and Development Cell**, under the leadership of **Dr. K. Arunthathi**, served as the Coordinator during the last academic year. The team comprised **with department HOD's** as members, all actively contributing to the smooth functioning of the cell.

To integrate the Research, Innovation and Technology Development at Thassim Beevi Abdul Kader College for Women, as per the UGC guidelines the Research and Development Cell (RDC) was established to enable the attainment of targets in global level and to play a pivotal role in catalyzing multidisciplinary/transdisciplinary and translational research culture in continuation with the previous research activities for the academic year 2023-2024, the follow-up of the research review meeting, collaborative research discussions, seminars and workshops were conducted for the 2023.

The action plan has been executed through the following three phases.



- During the first phase, the objective or need for an hour was identified. This depends on the areas of interest of the faculty. An appropriate response to the need is documented with recommended solution options. Good research practice begins with problem selection and research design.
- To begin with, it was planned to conduct the review meeting monthly for all the Departments, preliminary information's like area of specialization, years of experience before and after joining TBAKC, number of journals published both in international and national, number of projects availed/applied and finally number of patents filed/availed were collected.
- On the 28th of July 2023, a significant event was organized at **TBAK College for Women, Kilakarai marking DBT Star college scheme Implementation and MoU Signing with RVS College, Coimbatore**. The event brought together esteemed academicians and representatives from various institutions to witness and discuss this significant initiative aimed at enhancing academic

and research capabilities. The Key Dignitaries Present: **Prof. N. Thajuddin, Pro Vice Chancellor, B.S. Abdur Rahman University, Chennai, Dr. R. Rajendren, DBT Representative and Mentor, Former Principal, PSG College of Arts and Science, Coimbatore ,Dr. T. Siva Kumar, Principal, RVS College of Arts and Science, Coimbatore.** It marks the our college's inclusion in the prestigious DBT Star College Scheme. This initiative will play a pivotal role in strengthening the research culture within the institution by providing financial and technical assistance to improve its science programs.

- On 27th July 2023, Deptment of Microbiology and Research and development cell jointly organized a seminar titled "***Microalgae – A Potential Bio-resource for Present and Future***" was conducted, with **Prof. N. Thajuddin**, Pro Vice Chancellor of B.S. Abdur Rahman University, Chennai, serving as the resource person. The seminar aimed to explore the vast potential of microalgae as a sustainable bio-resource, discussing its relevance to present-day needs and future applications in various industries. The seminar concluded with an engaging Q&A session, where **Prof. Thajuddin** addressed questions from students, researchers, and faculty members. His presentation not only provided a detailed understanding of microalgae but also inspired participants to explore its various applications for future research and development
- Throughout the academic year, the cell conducted **monthly department-wise review meetings**. These meetings were crucial for tracking the progress of ongoing research projects, addressing any challenges encountered by faculty members, and ensuring that research initiatives were aligned with institutional goals. The reviews provided an opportunity for faculty to share updates on their research, discuss potential improvements, and receive guidance on overcoming research-related challenges.
- In addition to the review meetings, the cell organized various **research-related workshops and seminars**. These events were conducted in **collaboration with other departments**, promoting an interdisciplinary approach to research. The workshops aimed at improving the skills of faculty and students in key areas such as writing research proposals, publishing in high-impact journals, and securing research grants. Topics covered included **research methodologies, statistical analysis, and intellectual property rights**.
- On 4th November 2023, Central Library IQAC and Research and Development cell has conducted a workshop for faculty members on the theme, "***Developing a Knowledge Framework for Effective Research, Teaching, Funding, Patents, Admission, and Branding of Institutions.***" The session was led by **Dr. S.A. Fazlur Rahman, Librarian at Sri Krishna College of Engineering and**

**Technology, Coimbatore.** The purpose of the workshop was to equip faculty members with the knowledge and strategies to improve institutional growth and effectiveness in key areas like research, teaching, securing funding, obtaining patents, enhancing student admissions, and building a strong institutional brand. The workshop was highly interactive, with faculty members engaging in discussions and case studies.

- On 11<sup>th</sup> March 2024, Department of Tamil and Research and Development cell has jointly organize a workshop for students and faculties on the theme” **நாளைய சமுதாயம் இன்றைய இளைஞர் கையில்**” was held at **Thassim Beevi Abdul Kader College for Women, Kilakarai**, with **Dr. S. Sumaya**, Principal of the college, as the keynote speaker. Dr. S. Sumaya emphasized the immense potential of today’s youth in shaping the future of society. She highlighted that with proper guidance and focus, the youth can bring about significant positive changes in various fields, including social, political, and economic aspects of the country. The session concluded with a motivational message for the students, urging them to take charge of their futures and be active contributors to societal progress.
- On 19<sup>th</sup> March 2024, Department of English and Research and Development Cell has jointly organized a workshop on **"Writing a Scholarly Research Article for Journal"** was conducted on 19th March 2024, targeting both undergraduate and postgraduate students. **Dr. P. Bashkaran Nair**, Editor and Former Associate Professor of English, Journal of English Language Teachers Interaction Forum (ELTIF), Kannur District, Kerala, served as the resource person for the session. **Dr. P. Bashkaran Nair** began by explaining the core principles of scholarly writing, emphasizing the importance of clarity, coherence, and structure when crafting research articles for journals. He provided students with a roadmap for producing high-quality research papers. The workshop was highly informative and provided students with the essential tools and knowledge required to write and publish scholarly research articles. Dr. P. Bashkaran Nair’s expertise and practical guidance were well-received.
- By focusing on interdisciplinary research and collaboration, the cell encouraged faculty to work across departments, leading to innovative projects. These initiatives helped increase the number of research projects and resulted in securing external grants for some faculty members' work
- The **Research and Development cell's** activities also extended to **student involvement** in research. Students were guided on research methodologies, encouraged to take on their own research projects, and given opportunities to present their work at national and international conferences. The active engagement of students in research helped build a strong research culture within the institution.

**The following Proposals were submitted in the academic year 2023-2024:**

- Dr. S. Sumaya from the Department of Nutrition & Dietetics submitted a proposal titled **"Sustainable eco-friendly packaging material from paddy straw with value addition"** on 24/06/2023.
- Dr. A. Krishnaveni Ms S Habeeb Mohamed Sathak Amina & Ms K Annsheela from the Department of Computer Science submitted a proposal titled **"Earthquake detection using LoRa-enabled Internet of Things"** on 27/06/2023.
- Dr. M. S. Irfan Ahmed and Ms R Sudha Abirami from the Department of Computer Science submitted a proposal titled **"Self-care pregnancy monitoring and location-based smartphone mode change alert system"** on 27/06/2023.
- Dr. M. Ponmani, Department of English along with Co-PI Ms. M. Regina from the Department of Mathematics, submitted a proposal titled **"Exploring the impact of socioeconomic factors on English language proficiency in college urban communities of Ramanathapuram District"** on 15/08/2023.
- Ms. B. Seeni Rahfu Nisha and Co-PI Ms. K. Jasmine Malar from the Department of English submitted a proposal titled **"Navigating virtual interactions and the influence of ChatGPT on the mental well-being of adolescent girls in Kilakarai, Ramanathapuram District"** on 15/08/2023.
- Ms. I. Gayathri, Department of English along with Co-PI Dr. G. Hemapoojavalli from the Department of Microbiology, submitted a proposal titled **"Massive exploitation of embattled seahorses in the Ramanathapuram coastal area"** on 16/08/2023.
- Ms. R. Lakshmi Shree, Department of Nutrition and Dietetics with Co-PI Dr. K. Arunthathi from the Department of Microbiology, submitted a proposal titled **"Shelf-life studies on palm gur using bio preservatives"** on 15/08/2023.
- Dr. S. Muthumareeswari and Co-PI Ms. R. Lakshmi Shree from the Department of Nutrition and Dietetics submitted a proposal titled **"Standardization of bakery and confectionery products using palm sugar and palm candy"** on 15/08/2023.
- Ms. K. M. Buvaneswari and Co-PI Dr. S. Sumaya from the Department of Nutrition and Dietetics submitted a proposal titled **"Extraction of pigments and chemical characterization from brown algae available in the Gulf of Mannar region of Ramanathapuram district"** on 15/08/2023.
- Dr. I. Priya and Co-PI Ms. K. Manimegalai from the Department of Commerce submitted a proposal titled **"Socio-economic status of the fishermen community in the coastal area of Tamil Nadu, India"** on 16/08/2023.
- Ms. S. Manicka Vasuki, along with Co-PI Ms. S. Ayesath Umaira from the Department of

Commerce, submitted a proposal titled **"A study on the production and marketing of millets in the Ramanathapuram district of Tamil Nadu"** on 15/08/2023.

- Dr. A. Jasmine , Department of commerce and Co-PI Ms. K. M. Buvaneswari from the Department of Nutrition and Dietetics submitted a proposal titled **"A study on the problems of palm workers and the transformation of women's socio-economic status by imparting entrepreneurial skill training to palm workers in the Ramanathapuram district"** on 15/08/2023.
- Ms. R. Sudha Abirami and Co-PI Ms. S. Habeeb Mohamed Sathak Amina from the Department of Computer Science submitted a proposal titled **"Smart car parking system using RFID by android application"** on 15/08/2023.
- Ms. N. Nagajothi and Co-PI Ummul Hyrul Fathima from the Department of Computer Science submitted a proposal titled **"IoT-based methodology for accurate measurement of troponin levels without invasive blood sampling: Revolutionizing cardiac biomarker monitoring for early detection"** on 15/08/2023.
- Ms. D. Usha Rani and Co-PI Ms. R. Sudha Abirami from the Department of Computer Science submitted a proposal titled **"Fire detection and alerting system for home/apartment using IoT"** on 15/08/2023.
- Ms. J. Fathima Kaleema, along with Co-PI Ms. D. Usha Rani from the Department of Computer Science, submitted a proposal titled **"Sustainable development in Prosopis juliflora soil nutrient detection using IoT sensor in Ramanathapuram district"** on 15/08/2023.
- Ms. K. Annsheela, with Co-PI Ms. J. Fathima Kaleema from the Department of Computer Science, submitted a proposal titled **"Smart weather condition on LoRa through android application in a coastal region"** on 15/08/2023.
- Ms. S. Habeeb Mohamed Sathak Amina and Co-PI Ms. K. Annsheela from the Department of Computer Science submitted a proposal titled **"Smart gas leakage and monitoring system through android application"** on 15/08/2023.
- Dr. M. Nazreen Banu and Co-PI Dr. Mubarak Ali from the Department of Mathematics submitted a proposal titled **"Pure-integer programming approach for crude oil scheduling and to reduce the cost of prevention from corrosion"** on 15/08/2023.
- Ms. G. Saravana Priya and Co-PI Ms. A. Thanisha Barvin from the Department of Mathematics submitted a proposal titled **"Critical analysis of premature puberty among school-aged children in Ramanathapuram district"** on 15/08/2023.
- Ms. M. Regina and Co-PI Ms. R. Srimathi from the Department of Mathematics submitted a proposal titled **"Correlation between smartphone usage and the tendency to sleep during the daytime among college students"** on 15/08/2023.
- Dr. K. Arunthathi and Co-PI Dr. G. Hemapoojavalli from the Department of Microbiology submitted

a proposal titled "**Banana flower extract against specific organisms present in gestational diabetic patients**" on 16/08/2023.

- Dr. K. Arunthathi and Co-PI Dr. G. Hemapoojavalli from the Department of Microbiology submitted a proposal titled "**Isolation and identification of specific compounds from the extraction of Avicennia officinalis leaves against diabetes by using an animal model**" on 16/08/2023.
- Dr. G. Hemapoojavalli and Co-PI Dr. K. Arunthathi from the Department of Microbiology submitted a proposal titled "**Identification of inflammatory diseases caused by microplastics present in the marine environment**" on 16/08/2023.
- Dr. G. Hemapoojavalli and Co-PI Dr. K. Arunthathi from the Department of Microbiology, submitted a proposal titled "**Comparative study of compost from crab shell waste and vegetable waste**" on 16/08/2023.
- Ms. J. Janani, along with Co-PI Ms. A. Prabavathi from the Department of Chemistry, submitted a proposal titled "**Synthesis of biofilm from waste banana peels**" on 16/08/2023.
- Ms. A. Mariam Aysha and Co-PI Ms. K. Aishwarya from the Department of Chemistry, submitted a proposal titled "**Eco-friendly hydrophobic coatings: A green synthesis approach using bio silica and silver nanoparticles**" on 16/08/2023.
- Ms. S. Jenifer and Co-PI Ms. S. Asma Parveen from the Department of Psychology submitted a proposal titled "**Cultural Tamil Nadu: A quantitative study on sexual awareness among young adults**" on 16/08/2023.
- Ms. A. Basmina, along with Co-PIs Ms. J. Olista and Ms. Mubina Zulfa from the Department of Psychology, submitted a proposal titled "**Awareness on the effects of drug trafficking on quality of life among government schools in and around Ramanathapuram District**" on 16/08/2023.
- The patent titled "**A Herbal Based Pharmaceutical Formulation and Its Process Thereof**" was filed by S. Muthumareeswari, S. Sumaya, R. Lakshmi Shree, and K. M. Buvaneswari. The patent was published on **02/08/2024** under the application number **202441057208A**.

**The following papers were published in the academic year 2023-2024:**

S.No	Author (s)	Title of the Paper	Name of the journal	Volume	page	Year	Impact Factor	ISSN/ ISBN
1.	Ms Fathima Suraiya	نبذة علي الامثال و الحكم من ترجمة تروكرل الي العربية	Proceeding on Proverbs and Wise Saying in Arabic Literature	-	-	February 2024	-	978-93-340-13221-1
		دراسة عن نصيحة تروكرل	Al- Bukhari Journal of	Volume-4	-	Jan-June	-	2583-2379

		في "الامتان" و ترجمتها العربية	Arabic & Islamic Studies BS Abdur Rahman Crescent Institute of Science of Technology , Peer Reviewed Journal			2024		
		مساهمة المدارس النسوان في تطوير حفظ القرآن في كيلاكاراي	At-Tilmeez	Volume 12	-	2023	1.31	2394- 6628
2.	Dr Sheeba Rehman	مجلة البعث الاسلامي و مضامينها الأدبية و الاسلامية: دراسة نقدية و تحليلية	Al- Raihan	Volume 22	-	2023	3.4	2394- 8493

#### Department of Hindi:

S. No	Author (s)	Title of the paper	Name of the Journal	Volume	Page	Year	Impact Factor	ISSN/ ISBN
1	Ms J Sunitha	तिरुवल्लुवर और कबीर के कार्यों में नैतिक मूल्य: एक तुलनात्मक अ ध्ययन	Swadeshi Research Foundation A Monthly Journal of Multidiscipl inary Research	Volume 11	1123- 1129	2024	5.2	2394- 3580
		Pattanam- Kavithai	Yaappu Publication	-	-	2024	-	978- 81966 63- 53-7

#### Department of English:

S. No	Author (s)	Title of the paper	Name of the Journal	Volume	Page	Year	Impact Factor	ISSN/ ISBN
1.	Ms.K.Rizwana	On the Way to My Hometown	Axen Publication	-	23-26	Dece mber 2023	-	978- 93- 5850- 818-5

2.	Ms.K.Suganthi Ms.V.Saravana Priya Ms.M.Meenal	The Impact of Imperialism and Description of Subaltern in Amitav Ghosh's the Glass Palace	International Journal of All Research Education & Scientific Methods	Volume 12	409-413	January 2024	8.536	2455-6211
3.	Ms.K.Rizwana	The Caretaker	ELTIF	-	-	January-March 2024	-	2230-7710
4.	Ms.M.Sabari Priya	Fear is an Art of What You Forge – A Pavlovian Design of 'IT'	International Journal of All Research Education & Scientific Methods	Volume 12	309-310	January 2024	8.536	2455-6211
		Women the Warrior	Book chapter-wild flower & nevermore	-	-	April 2024	-	979-88-52996-89-3
		When the hiraeth Whispered	Book chapter – Magic Shop	-	-	-	-	978-93-90650-54-5

**Department of Commerce:**

S.No	Author (s)	Title of the Paper	Name of the journal	Volume	Page	Year	Impact Factor	ISSN/ ISBN
1.	Dr.A.Jasmine	Contemporary Dimension of Purchasing Behaviour of Employed Women in Chennai City (Based on Nine Contributing Attributes)	Business, Management and Economics Engineering (Web of Science)	Volume 22	207-221	March 2024	0.9	2669-2481 eISSN: 2669-249X
2.	Dr.S.Manicka Vasuki, Dr.A.Jasmine, Ms.S. Ayeshath Umaira	A Study on the Problems Faced by the Women Entrepreneurs	Journal of Xidian University (Scopus)	Volume 17	38-45	September 2023	5.4	1001-2400

3.	Ms.R.Hyrun Shaknahs	A study on Consumer Perception towards Organic Products and Foods with special reference to Kilakarai.	Journal of Xidian University (Scopus)	Volume 17	786-789	September 2023	5.4	1001-2400
4.	Dr.A.Jasmine, Ms.S.Amina Zuhaifa	A Study on Accelerating Transformation of Youth ASA Catalyst of Change Through Self Help Groups In Ramanathapuram District	Journal of Xidian University (Scopus)	Volume 17	1484-1504	August 2023	5.4	1001-2400
5.	Ms.K.Manimekalai, Dr.I.Priya	A Study on Indian Stock Market – NSE AND BSE	A Journal of Composition Theory	Volume 16	97-105	August 2023	5.7	0731-6755
6.	Dr.A.Jasmine , Dr.S.Manickavasuki, Ms.A.Ayeshathumaira	A Study on Janseva Co-operative credit Society -Solution to Financial Problem to the Poor with reference to Ramanathapuram District	Journal of Xidian University (Scopus)	Volume 17	1296-1303	August 2023	5.4	1001-2400
7.	Dr.A.Jasmine	Implementing AI Techniques for Combating Cybercrimes in Political Science and Management	European Chemical Bulletin (Scopus)	Volume 16	8807-8819	August 2023	3.71	2063-5346
8.	Ms.S.Ayesath Umaira, Dr S Manickavasuki Dr A Jasmine	A Study on Customer Satisfaction Towards Health	Journal of Xidian University (Scopus)	Volume 17	1686-1697	August 2023	5.4	1001-2400

		Drinks With Reference To Kilakarai						
9.	Dr I Priya	A Study on Problems of Street Vendors in Ramaeshwar am Town	Journal of Xidian University (Scopus)	Volume 17	1766-1777	August 2023	5.4	1001-2400
10.	Dr A.Jasmine	Factors Deciding Energy Efficient Home Appliances – Special Reference to the Impact of Socio Economic and Behavioural Factors	A journal of composition Theory	Volume 15	50-63	July 2023	5.7	0731-6755

#### **Department of Mathematics:**

S. No	Author (s)	Title of the paper	Name of the Journal	Volume	Page	Year	Impact Factor	ISSN/ ISBN
1	Dr R Punitha Dr M Nazreen Banu	“Several attributes of $\epsilon p$ -Open Sets in Cluster Topological Space”	Atomic spectroscopy (Web of Science)	Volume 44	106 - 108	2023	4.351	ISSN: 2708-521x

#### **Department of Computer Science:**

S. No	Author (s)	Title of the paper	Name of the Journal	Volume	Page	Year	Impact Factor	ISSN/ ISBN
1.	Dr A Krishna Veni	An Efficient Fuzzy based MRI Brain Tumor Segmentation and Classification	Uttar Pradesh Journal of Zoology (Web of Science)	Volume 44	61-73	June 2023	2.394	0256-971x
2.	Ms Nagavalli	Face Mask Detection Using Improved Convolutional	GIS Science Journal	Volume 7	1005 - 1012	July 2023	5.4	ISSN 1869-9391

		Netural Network						
3.	Ms M Nagavalli Dr.A.Krishnaveni	Integrating seaweed culture into shrimp and fish farming systems with autonomous underwater vehicles (AUV)	Journal of Xidian university	Volume 17	1574-1583	August 2023	0.6	ISSN: 1001-2400
4.	Ms.J.Fathima Haleema	Enhancing the Effective and Efficient Usage of E-Learning through Open Access Publishing	National Conference on “Next Generation Public Libraries: Exploring Emerging Trends and technologies (NGPL – 2023)	-	-	September 2023	-	-
5.	Ms.J.Fathima Haleema	Tracking and Detecting Library Inventory Through RFID Technology Using a Sustainable Library Management System	National Conference on “Next Generation Public Libraries: Exploring Emerging Trends and technologies (NGPL – 2023)	-	-	September 2023	-	-
6.	Ms.R.Sudha Abirami Ms.D.Usha Rani Ms.S.Habeeb Mohamed Sathak Amina	ICT enabled innovative learning tool using pair programming in higher education institutions	National Conference on “Next Generation Public Libraries: Exploring Emerging Trends and technologies (NGPL – 2023)	-	-	September 2023	-	-

7.	Ms M.Wasiba Begam	Efficient and expressive search over encrypted data with a multi-factor authentication scheme	International Journal of Scientific Research in Engineering Management (IJSREM)	Volume 7	1-8	September 2023	8.176	2582-3930
8.	Dr A Krishna Veni	Fractal Dimension Feature Based Breast Tumor Classification Using Data Mining	Journal of Xidian University	Volume 17	1574-1583	September 2023	0.6	1001-2400
9.	Ms.R.Sudha Abirami	Mining weakly labelled web facial images for search based face annotation	International Journal of Creative Research Thoughts (IJCRT)	Volume 12	199-202	September 2023	7.4	2320-2882
10	Ms.S.Habeeb Mohamed Sathak Amina Ms.R.Sudha Abirami	Unraveling Sentiment Patterns in Financial Markets: A Novel Approach using Sentiment Analysis and Linear Regression	YMER (Scopus)	Volume 23	1183-1193	April 2024	5.7	0044-0477
11	Ms R Sudha Abirami	Unveiling Soil Diversity: Leveraging Enhanced K-Means for Classification	Alochana Journal	Volume 13	320-325	May 2024	5.7	2231-6329
12	Ms.K.Annsheela Ms.S.Habeeb Mohamed Sathak Amina	Establishing a Secure File Transfer Using Hybrid Cryptography and LSB Stenographic Techniques	IJSR- International journal of Science and Research	Volume 13	767-770	May 2024	7.942	2319-7064

### **Department of Nutrition& Dietetics:**

S. No	Author (s)	Title of the paper	Name of the Journal	Volume	Page	Year	Impact Factor	ISSN/ ISBN
1.	Dr Muthumareeswari	A Study on the Prevalence of Poly Cystic	YMER (Scopus)	Volume 22	779-796	Dec 2023	5.7	0044-0477

	Dr.S.Sumaya Ms A Nisath Najni Ms.R.Lakshmi Shree	Ovary Syndrome Among College Going Girls –A Common Major Insensible Threat To Women’s Fertility of Future Society						
2.	Dr S Sumaya Ms K M Buvaneswari	Assessment of Impact of Sabla Scheme on Beneficiary Adolescent Girl	Journal of Technology (Scopus)	Volume 11	100- 109	Dece mber 2023	3.6	10123 407
3.	Dr S Sumaya Ms K M Buvaneswari	Prevalence of Anaemia Among Selected School Children Under Noon Meal Programme in Madurai	Journal of Technology (Scopus)	Volume 11	81-90	Dece mber 2023	3.6	10123 407
4.	Ms K M Buvaneswari Dr s Sumaya Ms R Lakshmishree Ms J.R Shiny Joe Ms M. Shifana fathima	Evaluation of Antioxidant Activity of Ethanollic Extract of Grape and Papaya Seeds	Journal of Technology (Scopus)	Volume 11	91-99	Dec 2023	3.6	10123 407
5.	Ms K M Buvaneswari Dr S Sumaya Dr Muthumarees wari Ms R Lakshmi Shree	PHTO NUTRIENT CONTENT ON GRAPSEEDS (Vitis vinifera seeds)	YMER (Scopus)	Volume 22	835 - 845	NOV 2023	5.7	0044- 0477

**Department of Microbiology:**

S. No	Author (s)	Title of the paper	Name of the Journal	Volume	Page	Year	Impact Factor	ISSN/ ISBN
1.	Ms R Malini	A Comparative Study on Biological Degradation of Plastic From Isolated Microbes Using Various	YMER (Scopus)	Volume 22, Issue 6	1455-1460	June 2023	5.7	0044-0477

		Methods						
2.	Dr K Arunthathi	Formulation And Characterization of Biofertilizer Prepared From Fish Waste	YMER (Scopus)	Volume 22	1461-1471	June 2023	5.7	0044-0477
3.	Dr K Arunthathi	Evaluating and Identifying the Pharmacological Activities of Cistus Quadrangularis Using Molecular Docking and Animal Model	YMER (Scopus)	Volume 22	737-746	AUG 2023	5.7	0044-0477
4.	Ms R Malini	Pharmacognostic Assessment of Silver Nanoparticles From Endophytic Bacteria	YMER (Scopus)	Volume 22, Issues 8	-	AUG 2023	5.7	0044-0477
5.	Dr K Arunthathi	A Comparative Study on Biological Degradation of Plastic From Isolated Microbes Using Various Methods	YMER (Scopus)	Volume 22	1455-1460	AUG 2023	5.7	0044-0477

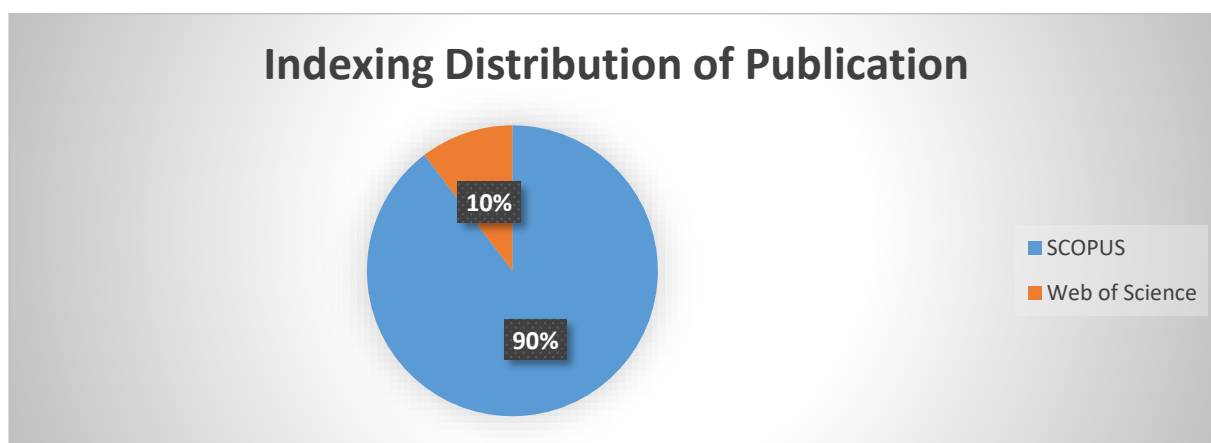
### Department of Chemistry:

S.No	Author (s)	Title of the Paper	Name of the journal	Volume	Page	Year	Impact Factor	ISSN/ ISBN
1.	Ms A Mariam Aysha Ms K Aishwarya Ms M Sangeetha Ms V S Subashini	Polyphenols, Flavonoids, Mineral elements, and Biological Activities of Ginger and Cinnamon Essential Oil and Extracts As Regulated By their Isolation Procedure	Journal Advanced of Zoology (Scopus)	Volume 44	2403-2411	November 2023	2.322	0253-7214

2.	Ms J Janani	Formulation of Ointment By Using Lawsonia Inermis and their Pytochemical Analysis	YMER (Scopus)	Volume 23	1655-1667	October 2023	5.7	0044-0477
3.	Ms U Hajara Banu	Prunus Dulcis Gum – TiO <sub>2</sub> Composite as Anticorrosive Material for Mild Steel Nail in 1MHCl using Weight Loss Method.	International Journal of Research and Analytical Reviews	Volume 10	685-694	September 2023	7.17	E-ISSN: 2348-1269, P-ISSN: 2349-5138
4.	Ms R. Amaravathi	Synthesis and Characterization of Calcium Magnesium Phosphate bio ceramic derived from urchin cell	YMER (Scopus)	Volume 23	1164-1172	March 2024	5.7	0044-0477
5.	Ms N. Priya	Green Synthesis and Characterization of Iron Oxide Nanoparticles Using Brown Seaweed Extract of Turbinaria Ornate	YMER (Scopus)	Volume 23	73-84	Feb 2024	5.7	0044-0477

**INDEXING DISTRIBUTION OF PUBLICATION:**

S.NO	INDEXING	NO OF ARTICLES
1.	SCOPUS	26
2.	WEB OF SCIENCE	3



**List of International/National seminars/webinars/workshops organized by the Research & Development Cell**

S.No	Date	Name of the Programme	Resource Person details
1.	27.07.2023	Seminar on Microalgae- A Potential Bio-resource for present and Future	<ul style="list-style-type: none"> <li>Prof. N.Thajuddin, Pro Vice Chancellor, B S Abdur Rahman University, Chennai.</li> </ul>
2.	28.07.2023	DBT Star College Scheme Implementation & MoU Signing with RVS College,Coimbatore on 28.07.2023	<ul style="list-style-type: none"> <li>Prof. N.Thajuddin, Pro Vice Chancellor, B S Abdur Rahman University, Chennai.</li> <li>Dr R Rajendren,DBT Representative and Mentor,Former Principal,PSG College of Arts and Science,Coimbatore</li> <li>Dr T Sivakumar,Principal,RVS College of Arts and science</li> </ul>
3.	04.11.2023	Workshop for faculty members on” Developing a knowledge framework for Effective Research,Teaching,Funding,Patents,Ad mission and Branding on Institution”	<ul style="list-style-type: none"> <li>Dr .S.A Fazlur Rahman, Librarian, Sri Krishna College of Engineering and Technology, Coimbatore</li> </ul>
4.	19.03.2024	A workshop on Writing a scholarly Research Article for Journal for all the UG and PG students	<ul style="list-style-type: none"> <li>Dr. P.Bashkaran Nair, Editor &amp; Former Associate Professor of English, Journal of English Language Teachers Interaction Forum( ELTIF) Kannur District, Kerala served as a Resource Person</li> </ul>
5.	11.03.2024	நாளைய சமுதாயம் இன்றய இளைஞர் கையில்	<ul style="list-style-type: none"> <li>Dr S Sumaya, Principal, Thassim Beevi Abdul Kader College for Women,Kilakarai</li> </ul>

### Photo gallery of the activities in entrepreneurship development cell from 2023-2024:



DBT Star College Scheme Implementation & MoU Signing with RVS College,Coimbatore on 28.07.2023

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN  
 A Minority Institution Sponsored by Seethakathi Trust, Chennai  
 (An Autonomous Institution Affiliated to Alagappa University, Karaikal)  
 Accredited by NAAC with 'A' Grade (COPA) and ISO 9001:2015 Certified Institution  
 Recognized by UGC With 2(F) & 12(B)  
 Karaikal - 63502, Ramnathapuram District, Tamil Nadu

Department of Microbiology  
 Cordially Invites

**Seminar on Microalgae - A Potential Bio-resource for Present and Future**

Presented By  
**Prof. N. Thajuddin**  
 Pro-Vice Chancellor  
 B.S. Abdur Rahman Crescent Institute of Science & Technology Vandalur, Chennai

DATE : 27.7.2023  
 TIME : 2.00PM - 3.00PM  
 VENUE: LECTURE HALL



Department of Microbiology and Research and Development cell conducted one day Seminar on Microalgae- A Potential Bio-resource for present and Future on 27.07.2023

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Dr A.P.J Abdul Kalam Central Library, IQAC and Research Development Cell  
 jointly invites you to

**A One-Day Workshop on**  
 "Developing a Knowledge Framework for Effective Research, Teaching, Learning, Funding, Patents, Admission and Branding of Institution"

Resource Person  
**Dr.S.A.Fazlur Rahiman**  
 Librarian, Sri Krishna College of Engineering and Technology, Coimbatore.

Date: 06.11.2023 Time: 11am Venue: Lecture Hall

Dr. P.SUMATHI Librarian  
 Dr. K.ARUNTHATHI Research Coordinator  
 Ms. B.SEENI RAHFU NISHA IQAC Coordinator  
 Dr. S.SUMAYA Principal



Central Library, IQAC and Research Development Cell of our college conducted an Workshop for Faculty members on Developing a Knowledge Framework for Effective Research, Teaching, Learning, Funding, Patents, Admission and Branding of Institution" on 04.11.2023



**THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN**  
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 An Autonomous Institution Affiliated to Alagappa University, Karaikal.  
 Accredited by NAAC with "A" Grade (CPA-3.16) & ISO 9001:2015 Certified Institution.  
 Recognized by UCC under 201 & 12 (B) Kilakarai - 623517, Ramanathapuram District, Tamil Nadu



நாள்: 11.03.24

நேரம் : காலை 10.00 மணி

இடம் : கலையரங்கம்

தாசிப்பீவி தமிழ் இலக்கிய மன்ற விழா  
 தமிழ்த்துறை மற்றும் ஆயாச்சி மேம்பாட்டுத் துறை இணைந்து நடத்தும் ஒருநாள்  
 கருத்தரங்கம்



சிறப்பு விருந்தினர்

(முனைவர்.எஸ்.கலைமணி) தலைவர்

முதல்வர் தாசிப்பீவி குழுவில் கருத் தலைவர் கருத்தரங்கம்

தலைவர்

தலைப்பு : “நானைய சமுதாயம் இன்றைய இளைஞர்கள் கையில்”

நிகழ்வுகள்

வரவேற்பு நடவடிக்கை

நாட்டுப்புற நடவடிக்கை

நாடகம்

குழுப் பாடல்

தனிப்பட்ட பாடல்



Keelakarai, Tamil Nadu, India  
 Unnamed Road, Keelakarai, Tamil Nadu 623517, India  
 Lat 9.24334°  
 Long 78.781142°  
 11/03/24 12:07 PM GMT +05:30

நானைய சமுதாயம் இன்றைய இளைஞர்கள் கையில் 11.03.2024

**Department of Tamil and Research and Development cell conducted one day Seminar on “நானைய சமுதாயம் இன்றைய இளைஞர் கையில்” on 11.03.2024**



Keelakarai, Tamil Nadu, India  
 Unnamed Road, Keelakarai, Tamil Nadu 623517, India  
 Lat 9.243919°  
 Long 78.780895°  
 20/03/24 11:43 AM GMT +05:30



Keelakarai, Tamil Nadu, India  
 Unnamed Road, Keelakarai, Tamil Nadu 623517, India  
 Lat 9.243919°  
 Long 78.780895°  
 20/03/24 11:42 AM GMT +05:30

On March 20, 2024, Dr. P. Bhaskaran Nair, Editor and former Associate Professor of English at the Journal of English Language Teachers Interaction forum (ELTIF), interacted with students about writing research articles for journals.

Through Dr. K Arunthathi-Research Coordinator strategic guidance and passion for innovation, TBAKC solidified its position as a leading far-reaching institution during the 2023-2024 academic year. Her leadership fostered a culture of excellence, elevating the Research & Development Cell and cementing TBAKC's reputation for delivering high-impact research and exceptional teaching.

