



MES ASMABI COLLEGE, P. VEMBALLUR

Aided College Affiliated to University of Calicut

P. Vemballur PO, Kodungallur, Thrissur District, Kerala, 680671

CONTENTS

Sl. No.	Name of the teacher	Title of the book/chapters published/ Title of the proceedings of the conference	Page No
1.	Dr. Jisha K .C.	Neurotransmitters in Plants Perspectives And Applications	6-9
2.	Dr.Muralikrishnan T.R.	Discourses in Applied Linguistics and English Language Teaching	10-12
3.	Dr. Amitha Bachan K.H.	AanakkuttiyumKattuplavum	13-14
4.	Dr.Sakkeena M .K.	Marjanu Allugha	15-18
5.	Dr.Sakkeena M.K.	Ecology of the new :Matter,Mind & Body	19-22
6.	Dr. Dhanya K	Ecologies of the new matter ,mind &body	23-25
7.	Dr Ranjith M	Bharathiy sahithy mem civil sainik sambandh	26-29
8.	Jasna NM	Ecologies of the new matter ,mind &body	30-32
9.	Chithra P	Gandhian Thoughts:Different Perspective	33-36
10.	Dr. Jisha K.C.	Bio-Episteme an anthology of research papers in science	37-40
11.	Dr. Amitha Bachan K.H.	Vezhambal Samrakshanathinate Randu Dashakangal	41-43
12.	Dr. Amitha Bachan K.H.	The Kid and the Hornbill	44
13.	Dr Amitha Bachan K.H.	Vezhambalum Thellivithum	45
14.	Dr Amitha Bachan K.H.	The historical linguist ice to the forest dwelling community continued the process, performance and major violations in the one decade of implementation of the Forest right Act 2006 in Kerala	46-49
15.	Dr.Sakkeena M .K.	AL ArabiyyalilMuthqaddimeen	50-53
16.	Dr.Sakkeena M. K.	MA AjmaluLugha	54-57
17.	Dr.Sakkeena M. K.	Literature Reader Appreciating Arabic Literature	58-61
18.	Dr.Sakkeena M. K.	Al Baseeth	62-66
19.	Dr. Dhanya P.R.	Book: Fish and Fishery products analysis	67-69
20.	Dr. Dhanya P.R.	Book chapter: Assessment of nutritional quality of fish	70-74
21.	Dr. Dhanya P.R.	Book chapter: Fish and fishery products:Quality Indices	75-78
22.	Dr. Dhanya P.R.	Book chapter: Water/Ice : Assessment of quality	79-82
23.	Dr. Dhanya P.R.	Book chapter: Toxicants: Assessment of	83-86

		quality	
24.	Dr. Dhanya P.R.	Book chapter: Techniques used in fish and fishery products analysis	87-90
25.	Dr. Dhanya P.R.	Book chapter: Waste management in seafood industry	91-94
26.	Dr .Dhanya P.R.	Book chapter: Bioactive compounds from marine sources	95-99
27.	Dr Ranjith M	Eak pyala chaay	100-103
28.	Dr. Skkeena M.K.	Al Khwathir	104-108
29.	Dr. Amitha Bachan K. H.	Biodiversity for climate Resilience	109-112
30.	Dr. Princy Francis	Emerging trends in commerce and management	113-117
31.	Shiney C. N.	Crime against Women	118-121
32.	Deepa K.A.	Crime Against Women	122-125
33.	Dr Ranjith M	Sahithy ki anghom se paryavaran ki chalak	126-128
34.	Dr Haseena V. A	Adhivasi jeevitham Attapadiyilude	129-130
35.	Dr.Muralikrishnan T.R.	English Grammar and Usage	131-133
36.	Sinsy Siddiq	Eco Critical Readings:Nature and Environment in Humanities	134-137
37.	Sinsy Siddiq	Discourse Writing and Biospace	138-142
38.	Dr Amitha P Mani	Chronicles of Heart	143-146
39.	Dr Haseena V. A	Livelihood Status of the Tribal Women	147-148
40.	Dr Jisha K.C.	Priming mediated biotic stress tolerance in <i>Curcuma longa</i> L.	149-151
41.	Dr Jisha K.C.	Bioenergy Crops: A Sustainable Means of Phytoremediation	152
42.	Dr Jisha K.C.	Wetlands Conservation: Current Challenges and Future Strategies	152-153
43.	Dr Jisha K.C.	Frontiers in Biological Sciences	154-156
44.	Dr.Reshmi S	Engaging Learners in the Twenty First Century	157-159
45.	Dr .AmiithaBachan K.H.	Plant Biodiversity and Environment Conservation	160-162
46.	Dr.Sanjeev kumar.k	Sahityaksamvadh	163-167
47.	Sabitha M.M.	“Flash Fictions: Creative and Innovative Trends in New Literature	168-172
48.	Dr.Ranjith M	Sahithy ke paryavaran vimarsh	173-175
49.	Najma Nazeer	Reimagining Space and Literature	176-179
50.	Dr Haseena V. A	Eco -Tourism In Kerala	180-182
51.	Shiji Ibrahim U	Evolving poetic utterance :New frontiers and visual signature	183-186
52.	Dr. Dhanya P.R	Impact of Climate Change on Hydrological Cycle, Ecosystem, Fisheries and Food Security	187-190
53.	Dr .AmiithaBachan K.H.	Taxonomy and Diversity of the Lesser-Known Varieties of <i>Ficus virens</i>	191-194

		(Moraceae) from The Western Ghats	
54.	Dr. AmiithaBachan K.H.	Addressing the Limitations of Niche Modelling for Species Distribution Prediction with Reference to the Western Ghats	195-198
55.	Dr Amitha P Mani	Cultural Confluence :Contemporaneity and Congruence	199-201
56.	Dr Murali Krishnan T R	Cultural Confluence :Contemporaneity and Congruence	202-204
57.	Sabitha MM	Functional Grammer and Communication in English	205-209
58.	Reshma T M	Multidiciplinary Research in Education	210-212
59.	Dr Ansar EB	Nanotechnology in the Automotive Industry	213
60.	Jameelathu KA	Peregrination into the Human Psyche through Underlying Spiritual Philosophy in the movie Manassinakkare	214-217
61.	Jameelathu KA	Man as the Oppressor and the Oppressed: A Postcolonial and Psychological Perspective on the Malayalam movie Guru	218-220
62.	Dr. Reshmi S	Recent Trends in Multidiciplinary subjects	221-224
63.	Krishnapriya M	Laws And Practices Of Banking	225-226
64.	Dhini K.V.	Laws And Practices Of Banking	227-229
65.	Krishnapriya M	Basic of Entrepreneurship and management	230-235
66.	Dr Dhanya P.R.	Price Spread of Fishes in Thrissur District	236-241
67.	Dr Dhanya P.R.	Fish Consumption Pattern in Thrissur District	242-247
68.	Dr. K. Kesavan	Post Monsoon Induced breeding of Ikan koi Kabuto slayer carp, Cyprinus carpio (Cyprinidae) using WOVA FH	248-253
69.	Dr. K .Kesavan	Study on Gut Content of Lunar Tailed Big Eye (Pracanthus hamrur)	254-259
70.	Shibu A Nair	Comparative Study on Biofloc & Cage Culture System in the Production of Tilapia	260-265
71.	Shibu A Nair	Promotion of Aquaculture in Edavilangu Grama Panchayat, Thrissur District,kerala	266-271
72.	Shibu A Nair	Comparative Analysis of the Common Marine Fish Species in Tanzania and India	272-277
73.	Sunniya Abdu	Impact of Malathion on the Biochemical Composition of the Freshwater Fish,Oreochromis Mossambicus	278-283
74.	Dr Sayana K.A.	Nutritional Enhancement of Edible Oils Using Crustacean Shell Waste	284-289
75.	Sreelakshmi T.P.	Chemical & Physical Food Safety Hazardsin Aquaculture Farms: A Study in	290-295

		Kodungallur Area	
76.	Sugaina Sulaiman M.S.	Influence of Chilled Storage on the Biochemical, Sensory and Microbial Quality of Frigate Tuna (<i>Auxis thazard</i>) Meat.	296-301
77.	Ujjwala Navas	Growth Performance Study of <i>Anabas Testudineus</i> by Utilization of Prawn Shell Waste as a Potential Fish Feed Ingredient	296-301
78.	Vaishna P.U.	Marketing Margin and Price Spread of Ornamental Fishes in Selected Districts in Kerala	302-307
79.	Dr Jisha K.C.	Priming Enhances tolerance to Waterlogging Stress in Turmeric Varieties (<i>Curcuma longa</i> L.)	308-313
80.	Dr Jisha K.C.	Crop Improvement of Ginger (<i>Zingiber of(cianale Rosc.)</i> Through Biopriming	314-319
81.	Dr Girija T.P.	Phytochemical and GC-MS/MS Analysis of <i>Strophanthus wightianus</i> Wall. ex Wight	320-325
82.	Dr Sheeba N.H.	Structural Properties and Antibacterial activity of Copper Oxide Nanoparticles	326-330
83.	Dr Sheeba N.H.	The Impact of Deposition Time on the Structural and Optical Properties of Flower-like PbS Thin Films	331-336
84.	Dr Sheena P.A.	Anatase to Rutile Phase Transformation of TiO ₂ Nanoparticles	337-342
85.	Minsila Hilal	Parental Bonding and Perception of Success Among Late Adolescent Athletes	343-348
86.	Minsila Hilal	Impact of Birth order on Academic Procrastination Among Young Adults	349-354
87.	Minsila Hilal	Bullying and Resilience Among Adolescent	355-360
88.	Minsila Hilal	Perceived Stress and Pornography Use Among Young Adults	361-366
89.	Latheef Paneth	Academic Adaptability and Resilience Among College Students based on Learning Style	367-372
90.	Latheef Paneth	Relationship Between Expectationism and Self Care Behaviour Among Young Adults	373-378
91.	Latheef Paneth	The Effect of Learning Styles on Academic Adaptation of High School Students	379-384
92.	Latheef Paneth	Gender Role Beliefs and Academic Self-efficacy Among College Students in Neumerically female dominated education streams	385-390
93.	Farhana Nazar	Effect of Aggression on School Refusal Behavior Among Adolescence	391-396
94.	Farhana Nazar	Emotion Regulation, Coping Abilities and	397-402

		Cognitive Flexibility Among Service Oriented Youth Organisation Members and Non Members	
95.	Farhana Nazar	Perceived Social Support and Bullying Among Adolescents	403-408
96.	Farhana Nazar	Psychological Well Being and Social Avoidance and Distress Among Theist and Atheist	409-414
97.	Jyothi V	A Study of Behavioural Patterns and Effect of Starvation on Fight Success in the Common House Cricket Acheta Domesticus	415-420
98.	Dr Ranjith M	Malayalam :mahila manas ki khaaniyam	421-425
99.	Dr Ranjith M	Hindi anusandhan ki dasha aur disha	426-429

-

NEUROTRANSMITTERS IN PLANTS

Perspectives and Applications

EDITED BY

Akula Ramakrishna
Victoria V. Roshchina



CRC Press
Taylor & Francis Group

Section iii *cellular Location of neurotransmitters:their
Reception and Signaling*

Chapter 8	Tools for Microanalysis of the Neurotransmitter Location in Plant Cells	135
	<i>Victoria V. Roshchina</i>	
Chapter 9	Inter- and Intracellular Signaling in Plant Cells with Participation of Neurotransmitters (Biomediators)	147
	<i>Victoria V. Roshchina</i>	
Chapter 10	Neurotransmitters in Characean Electrical Signaling	181
	<i>Vilma Kisnieriene, Indre Lapeikaite, and Vilmantas Pupkis</i>	
Chapter 11	Dopamine and Their Antagonist Modulates Ion Transport and Cytoplasmic Streaming in <i>Chara</i> Cells	201
	<i>Anatolii A. Kataev, Olga M. Zherelova, V.M. Grischenko, and R.Sh. Shtanchaev</i>	
Chapter 12	Possible Participation of Acetylcholine in Free-Radical Processes (Redox Reactions) in Living Cells.....	211
	<i>Bogdan A. Kurchii</i>	
Chapter 13	GABA/BzBA Priming Causes Signaling of Defense Pathways Related to Abiotic Stress Tolerance in Plants	219
	<i>K.C. Jisha, A.M. Shachisa, and J.S. Purihar</i>	
Chapter 14	Glutamate Sensing in Plants	231
	<i>Jesús Salvador López-Bucio, Homero Reyes de la Cruz, and A. Arturo Guevara-García</i>	
Section iv	<i>Role of neurotransmitters in Relationshipof organisms in Biocenosis</i>	
Chapter 15	Role of Acetylcholine System in Allelopathy of Plants	243
	<i>Rashmi Sharma and Rajendra Gupta</i>	
Chapter 16	Production of Neurochemicals by Microorganisms: Implications for Microbiota– Plant Interactivity	271
	<i>Alexander V. Oleskin and Boris A. Shenderov</i>	

13

GABA/BABA Priming Causes Signaling of Defense Pathways Related to Abiotic Stress Tolerance in Plants

K.C. Jisha, A.M. Shackira, and Jos T. Puthur

CONTENTS

13.1	Introduction	219
13.2	Enhancing Stress Tolerance in Plants	220
13.3	GABA/BABA Priming in Plants	221
13.4	Metabolism of GABA/BABA	223
13.4.1	GABA Shunt.....	223
13.4.2	BABA Metabolism	224
13.5	Signaling Cascades During GABA/BABA Priming.....	224
13.5.1	GABA Signaling Pathway	224
13.5.2	BABA Signaling Pathway	225
13.6	Conclusion	226
	References	227

13.1 INTRODUCTION

Abiotic stresses are the most significant factors leading to extensive and erratic loss in agricultural productivity across the world. Owing to the sessile nature of plants, they must cope with adverse environmental conditions, and therefore they must possess a variety of responses to cope with various environmental stresses (Gao et al. 2007). In plants, these stresses adversely affect the growth and productivity by triggering a series of morphological, biochemical, and molecular mechanisms (Wang et al. 2001). Even though the plants have developed specific mechanisms during the course of evolution to sense the subtle changes of growth conditions that trigger many signal transduction cascades (Gao et al. 2007), certain treatments activate stress responsive genes and finally leads to changes at the physiological and biochemical levels in plants.

The quick signaling for inducing the defense mechanism against the adverse environmental conditions requires a stress signal, which gets transduced like a neurotransmitter. Major neurotransmitters found in plants include acetylcholine, epinephrine, γ -aminobutyric acid (GABA), dopamine, levodopa, melatonin, serotonin, and so on (Fait et al. 2006). Later, it was discovered that GABA is largely and rapidly produced in plants in response to various biotic and abiotic stress factors. For example, when insects walk across a leaf, rapid accumulation of GABA was monitored within seconds (Scholz et al. 2015). In addition, β -aminobutyric acid (BABA) a close structural relative of GABA, is a potent inducer of acquired disease resistant in plants. However, its occur-

CRC Press
Taylor & Francis Group
6000 Broken Sound Parkway NW, Suite 300
Boca Raton, FL 33487-2742

© 2019 by Taylor & Francis Group, LLC
CRC Press is an imprint of Taylor & Francis Group, an Informa business

No claim to original U.S. Government works

Printed on acid-free paper

International Standard Book Number-13: 978-1-1385-6077-2 (Hardback)

This book contains information obtained from authentic and highly regarded sources. Reasonable efforts have been made to publish reliable data and information, but the author and publisher cannot assume responsibility for the validity of all materials or the consequences of their use. The authors and publishers have attempted to trace the copyright holders of all material reproduced in this publication and apologize to copyright holders if permission to publish in this form has not been obtained. If any copyright material has not been acknowledged please write and let us know so we may rectify in any future reprint.

Except as permitted under U.S. Copyright Law, no part of this book may be reprinted, reproduced, transmitted, or utilized in any form by any electronic, mechanical, or other means, now known or hereafter invented, including photocopying, microfilming, and recording, or in any information storage or retrieval system, without written permission from the publishers.

For permission to photocopy or use material electronically from this work, please access www.copyright.com (<http://www.copyright.com/>) or contact the Copyright Clearance Center, Inc. (CCC), 222 Rosewood Drive, Danvers, MA 01923, 978-750-8400. CCC is a not-for-profit organization that provides licenses and registration for a variety of users. For organizations that have been granted a photocopy license by the CCC, a separate system of payment has been arranged.

Trademark Notice: Product or corporate names may be trademarks or registered trademarks, and are used only for identification and explanation without intent to infringe.

Library of Congress Cataloging-in-Publication Data

Names: Ramakrishna, Akula, editor. | Roshchina, V. V. (Viktoriëiia Vladimirovna), editor.
Title: Neurotransmitters in plants : perspectives and applications / editors: Akula Ramakrishna and Victoria Roshchina.
Description: Boca Raton, FL : CRC Press, Taylor & Francis Group, 2018. | Includes index.
Identifiers: LCCN 2018011298 | ISBN 9781138560772 (hardback : alk. paper)
Subjects: LCSH: Plant physiology. | Neurotransmitters.
Classification: LCC Q677 .N48 2018 | DDC 571.2--dc23
LC record available at <https://lccn.loc.gov/2018011298>

Visit the Taylor & Francis Web site at
<http://www.taylorandfrancis.com>

and the CRC Press Web site at
<http://www.crcpress.com>

Discourses in Applied Linguistics and English Language Teaching

Muralikrishnan T.R.



Quality Books Publishers & Distributors

- **Book** : Discourses in Applied Linguistics and English Language Teaching
- **Writer** : Muralikrishnan T.R.
- **ISBN** : 978-93-83637-86-7
- **Edition** : First, Year 2018
- **©** : Writer
- **Price** : ₹ 275.00 Only
- **Publisher** : Quality Books Publishers & Distributors
15, Siddhartha Nagar, Guba Garden,
Kalyanpur, Kanpur-208 016 (U.P.)
Mo. 8960421760, 09971275801
- **Graphic** : Anupra Graphic, Baradevi, Kanpur
- **Printer** : Sakshi Printer's Yashoda Nagar, Kanpur

**DISCOURSES IN APPLIED LINGUISTICS AND ENGLISH
LANGUAGE TEACHING**

Written by Muralikrishnan T.R.

Price : Two Hundred Seventy Five Rupees Only

CONTENT

Preface	7
Fact/Fiction : Political Narratives in Media	11
Classroom Discourse : An Analysis Based on Critical Discourse Analysis	19
King Richard II : Analyzing the Political Discourse of Power	27
Task Based and Activity Based Language Teaching	40
Searching for an enemy: Political Discourses on 9/11	49
Siting Translator: Perspectives, Issues and Possibilities	67
Theatre Pedagogy : Using California Shakespeare Theater (Cal Shakes) as a Material for Learning and Classroom Activity	80
Translator as Reader: Phenomenology and Text Reception	91



- മേധം
- സ്ഥാപനം
- പ്രവർത്തനങ്ങൾ
- പുസ്തകങ്ങൾ
- തളിത്
- വാർത്ത
- വിഭാഗം
- മറ്റുള്ളവ



HOME PAGE / ആനക്ക



ആനക്കുട്ടിയും കാട്ടുപ്ലാവും

₹60.00

രചന: ഡോ. അമിതാബച്ചൻ കെ എച്ച്, നേഹ കെ എച്ച്
ചിത്രീകരണം: നേഹ കെ എച്ച്

SKU: 1026

CATEGORIES: NEW ARRIVAL , ഡോ. അമിതാബച്ചൻ കെ എച്ച് , നേഹ കെ എച്ച് , നേഹ കെ എച്ച് , നവനീൽ കൃഷ്ണൻ എസ് , 9-വയസ്സ്-മുതൽ , 2018 , കഥ , സെമിൻ ജെ എൻ , നവനീൽ കൃഷ്ണൻ എസ്

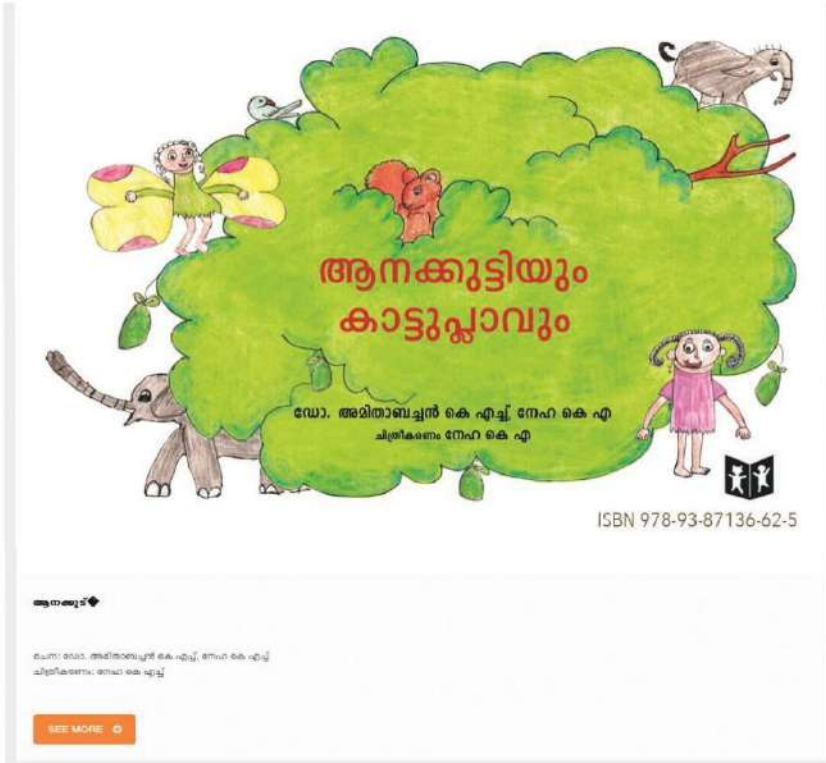
- DESCRIPTION
- ADDITIONAL INFORMATION

Description

മുത്തച്ഛൻപുലിന്റെ ചുവടു മുഴുവൻ ഒരു ദിവസം ആരോ ചവിട്ടിമെതിച്ചിട്ടിരിക്കുന്നു. അതാരാണ് എന്ന് മിനുവീന്തു കണ്ടുപിടിക്കണം. മിനുവീന്റെ ആ യാത്രയാണ് ഈ പുസ്തകം.

Related products

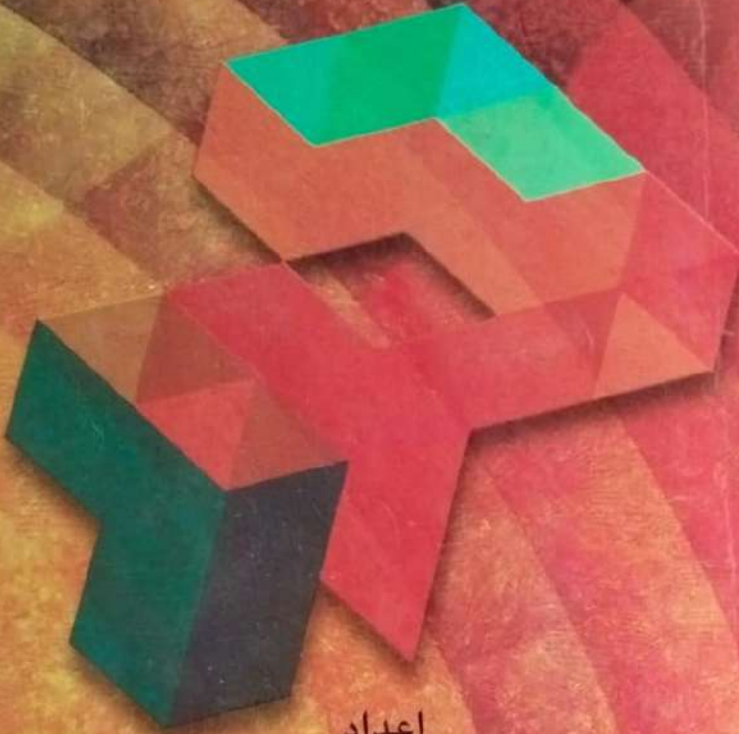




The baby elephant and the jackfruit tree by Dr. Amitha Bachan. One fine day, someone has uprooted the grounds of grandpa jackfruit tree. This book is the journey of Meenu to find out who is behind this.

مرجان اللغة

كتاب مقرر للدورة العامة لبيكالوريوس في التجارة والبيكالوريوس في إدارة الأعمال
تحت جامعة كاليكوت



إعداد

سكينة م. ك

أستاذة مساعدة، كلية م. إ. س أسماي، كودونغثور

مكتبة الأشرف تروورنغاد

MARJANU AL LUGHHA

Prescribed Text Book for First Semester B Com and BBA, University
of Calicut



Edited By
SAKKEENA M.K
Assistant Professor of Arabic,
MES Asmabi College, Kodungallur

edumart

Tirurangudi Towers, Mavoor Road, Calicut-4
Tel : 0495-2724395, 4040295, 3918313

Calicut : 0495 2724395
Malappuram : 0483 2736865
Tiruvandur : 0471 2322223

ISBN 978-81-936556-4-1



9 788193 633441

Price ₹ 58/-



المحتويات

الصفحة	الوحدات والدروس
	الوحدة الأولى: الحوارات والقصص
٧	١ عطلة سعيدة
١٤	٢ مقابلة
٢٠	٣ طاعة الوالدين
٢٦	٤ في المصرف
٣١	٥ مع العلماء
٣٦	٦ حوالة مالية
٤٠	٧ الفئران تأكل الحديد
٤٤	٨ مكالمة هاتفية
٥٠	٩ وادي القناعة
٥٦	١٠ النار
٦٢	١١ هدية مناسبة
٦٧	١٢ أميرة البحار السبعة
٧٤	١٣ فمن رغب عن سنّتي فليس مني
	الوحدة الثانية: مسرحية
٧٦	١٤ شمس النهار - المنظر الثاني - الفصل الثاني

It is a book named Marjanu al lugha which is a General Course Book for Bachelor of Commerce and Bachelor of Business Administration under University of Calcutt. It is edited by Sakkeena M.K (Assistant professor of Arabic, MES Asmabi college Kodungallur). The book is divided into two units, conversations and stories & drama. The contents:Conversations and stories

1. Happy holiday
2. Interview
3. Obeying parents
4. In the bank
5. With scientists
6. Money transfer
7. Mice eat iron
8. Phone call
9. Valley of satisfaction
10. Fire
11. Suitable gift
12. Princess of the seven seas
13. Whoever turns away from my sunnah is not of me.

Drama

14. Fire sun- second view - chapter 2



MESMAC-II
INTERNATIONAL
CONFERENCES

www.mesmac.in

ECOLOGIES OF THE

NEW:

MATTER, MIND & BODY

MES Mampad College (Autonomous)

Mampad college P.O., Malappuram Dist

Kerala-India, Pin: 676 542

info@mesmampad.org | www.mesmampad.org



9 788192 687391

ECOLOGIES OF THE NEW: MATTER, MIND & BODY

Volume 3
ISBN: 978-81-926873-9-1

Chief Editor
Dr. Sabique. MK
(Head, Department of Arabic)

Publication Division:
MES Mampad College (Autonomous)
Accredited by NAAC with A Grade
Mampad College PO, Malappuram Dist., Kerala, 676542
Email: info@mesmampad.org

دراسة تاريخية عن قدوم البرتغاليين إلى كيرلا

سكينة م. ك

رئيسة قسم اللغة العربية كلية أسلامي
كودونغلور، وباحثة في كلية فاروق تحت
إشراف الدكتور س. ب. أبوبكر

ومعهم ثلاث سفن مضعمة بالزاد إلى ثلاث سنوات
حتى انتهى إلى «ميلندة» من قارة أفريقيا بعد عبور
السواحل المغربية. ولكنه أخذ الحزن والكآبة أثناء
سفره حين جهل الطريق المختص إلى الهند. فبعثهم
ملك مغرب ووكّنه إلى قائد عربي اسمه شهاب الدين
أحمد بن ماجد حتى أرشدهم إلى شبه القارة الهندية
واقى هي معروفة لدى العرب ومجهولة بالنسبة إلى
الأوروبيين ٣.

سارت للسفن تمخر أمواج البحر إلى الطرف
غربية لدى الأوربيين وسارت اللجج أيامه وشهوره
غير اطلاع على أي بر ولا أرض. وكانت الرياح تهب
يشدها ولكنها ما أوقدت نيران همّتهم وعزمهم
بعد أيام سقطت أنظارهم على قطعة من
وبدت مرأى منهم أرض جميلة مليئة بأشجار نارنج
بتاريخ ١٨ مايو. تهللت أساربر وجه غاما وأصبح
ورقصوا وتحدّثوا بأن هذه كالكويت أرض الطير
والفلل والزنجيل وما إليها من الثروات المجد
والأمتعة الثمينة.

مقدمة :

اتسعت حظيرة الاسلام الى شتى اجواء المعمورة. حين
وصل نوره على سواحل أفريقيا وأوربا. ازداد العرب
في هاتين القارتين عزاً وشرفاً وكان أساس تقدّمهم
الديني والتجاري متانهم الاقتصادية. ومصدر هذه
المثانة الاقتصادية كان الطيب والفلل المصدرين
من كالكويت. وقعت الدول الغربية في أشدّ دهشة
وتعجب حينما شاهدوا ثروة العرب وانتشار الاسلام
شرقاً وغرباً حتى اضطروا إلى أن يلجؤا إلى العرب
للقضايا التجارية ونحوها. البرتغاليون وهم أول من
تجرأ لهذه المغامرة الهائلة بأن خرجوا إلى شبه قارة
الهند متوجّهين نحو كالكويت

قدوم واسكودغاما إلى كيرلا: أخرج البرتغاليون
تحت قيادة «واسكود غاما» إلى الهند بتاريخ ٨
يوليو سنة ١٤٩٨ من عند ملكها «إيمانويل» بعد
تهنئته إياهم بكلّ تمنيات وتبريكات. وكانت سفينته
تدعى «سامووجبريل». «٢٠ ألفاً زاد» إيمانويل «بارسال»
واسكودغاما «إلى الهند مهيد طريقة جديدة إلى
بلاد الهندية وتوسيع نطاق العلاقات التجارية
مع الدول الشرقية. خرج غاما وأصحابه إلى الهند

المحتويات

١٥-٧	أستاذ الدكتور محمد ثناء الله الندوي تنمية المستدامة: مقارنة رؤيوية وأدبية في السياق الإسلامي
٢٤-١٦	/ك. علي نوفل سمية المخترعات الحديثة ومصطلحاتها في اللغة العربية
٣١-٢٥	محمد رياض كوي بينما الثورة الفلسطينية: تحول مثالي في تناول القضية الفلسطينية
٤٣-٣٢	شاد علي وافي أربع تطورات النثر الحديث في المملكة العربية السعودية
٤٦-٤٤	عميد الوهاب كيرلا في الرحلات العربية في القرن العشرين
٦٠-٤٧	محمد أسلم الوافي.ك. لأدب الميثاق في الترجمة العربية: بإشارة خاصة إلى روايات «أيام الماعز» و«شمين»
٦٧-٦١	د/ يوسف محمد الندوي الإعجاز الفني للقرآن الكريم
٧٣-٦٨	مشعل سليم نظريات النفسية الاجتماعية في كتابات الدكتور عائض القرني
٧٧-٧٤	محي الدين الكانباتي العمالة الأجنبية وصراع الهوية في رواية ساق البامبو لسعود السنعوسي الكويتي
٨٢-٧٨	ربينة يوتي حسان بن ثابت الأنصاري (ر): شاعر الرسول (ص)
٨٩-٨٣	شفيق. سي. بي أدب السخرية في الأدب العربي: نظرية عابرة
٩٩-٩٠	شمير بابو. إي. كي المعاهد العربية الشهيرة في كيرلا
١٠٤-١٠٠	سكينة م. ك. دراسة تاريخية عن قدوم البرتغاليين إلى كيرلا

ISBN 978-91-928873-9-1

A historical study on the arrival of the Portuguese to Kerala The fold of Islam has expanded to all corners of the globe. When its light reached the coasts of Africa and Europe, the Arabs in these two continents increased in dignity and honor, and the basis of their religious and commercial progress was their economic strength. The source of this economic strength was the spices and pepper exported from Calcut. The Western countries fell into the greatest astonishment and when they saw the wealth of the Arabs and the spread of Islam east and west, to the point that they were forced to turn to the Arabs for commercial issues. The Portuguese were the first to dare this enormous adventure by leaving the Indian subcontinent, heading towards Calcut.

ECOLOGIES OF THE
NEW:
MATTER, MIND & BODY



Volume 2

MES Mampad College (Autonomous)



Ecologies of the New: Matter, Mind & Body
Volume 2

Anthology of Research Papers

Editors

Chief Editor
Dr. P.K. Babu

Associate Editors
Dr. Sajid A. Latheef
Dept. of English, M.E.S Mampad college

Abdul Wahid K.
Dept. of Islamic History, M.E.S Mampad college

Dr. Mehar Al Minnath
Dept. of Chemistry, M.E.S Mampad college

Dr. K.M. Remia
Dept. of Zoology, M.E.S Mampad college

©Publication Division
DGM MES Mampad College
Mampad 676 542

Typesetting by
Sikha Grandhavedi, Olavattur

Lay out
Rajesh monji

Printing
Hopuz Printers Ayikkarappadi

All rights Reserved.

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying or recording, or by any information storage and retrieval system, without permission in writing from the publisher.

ISBN 978-93-5300-711-9

41.

The evaluation of child morbidity in the marginalized fisher folks of Kerala, India

Dhanya K

Department of Economics,

M.E.S. Asmathi College,

Vemballur P.O, Thrissur, Kerala

Abstract:

This paper is to examine the extend of child morbidity in the background of poverty on the already marginalized community of fisher folks in Kerala, a part of South India. This will portray the potential impacts of poverty on the socio-economically weaker section. Kerala's social indicators of development such as death rate, birth rate, infant mortality rate, life expectancy, literacy rate and the like are comparable to that of the most advanced countries. The study addressed the Objectives, such as to evaluate the socio-economic conditions of fisher folk and their relations with the causes and extend of child morbidity and to enumerate the source of funds for financing health care. A community based cross sectional study was done among fishermen in coastal area of two Panchayaths of Thrissur, Kerala, viz. Eriyad and Sreenarayanaapuram. Fifty households in the two fishing panchayaths were selected by multistage cluster sampling method. This study is mainly based on a primary survey, conducted in two Panchayaths of Thrissur, Kerala, viz. Eriyad and Sreenarayanaapuram. The survey covered a total of 50 households (25 from each panchayath) by simple random basis. History related to their socio-demographic details, occupational characteristics, their personal habits were asked with the aid of the semi structured questionnaire and also their physical parameters were measured. The association between various factors and physical morbidity, were analyzed by using various tests. The results of the study showed that the highest prevalence for physical morbidity in the children's of fishermen was seen for fever (49%) followed by Skin disorders (35%), heart diseases (23%). The study also found the presence of high literacy rate, lack of proper social security, long duration of fishing activity, lack of proper protection from sunlight and noise in board in the fishermen population. Age was significantly associated with most of the morbidity in the present study. The study concluded that the prevalence of non-communicable diseases in the children of fishermen population of Thrissur coast district was moderately high, highlighting the need for specific screening programmes and occupational health services for these population. Therefore, it is envisaged that, there is an urgent need to understand the common health related child morbidity of the fishermen population and to provide for the occupational health services to screen and diagnose the chronic diseases in the fishermen community at the earliest.

Key words: child morbidity, fishermen, health, prevalence, coastal population

भारतीय साहित्य में सिविल सैनिक संबंध

संपादक :

डॉ. रंजित एम., डॉ. सूर्या बोस



भारतीय साहित्य में सिविल सैनिक संबंध

सम्पादक
डॉ. रंजित एम., डॉ. सूर्या बोस

माया प्रकाशन
कानपुर-208021

ISBN : 978-81-934201-4-0

- पुस्तक : भारतीय साहित्य में सिविल सैनिक संबंध
संपादक : डॉ. रंजित एम., डॉ. सूर्या बोस
स्वत्वाधिकार : सम्पादक
प्रकाशक : माया प्रकाशन
6A/540, आवास विकास
हंसपुरम् कानपुर-208 021
Mo. : 09451877266, 7618879266
E- mail : mayaprakashankanpur@gmail.com
संस्करण : प्रथम 2018
मूल्य : 350.00 मात्र
शब्द सज्जा : विष्णु ग्राफिक्स
नौबस्ता, कानपुर
मुद्रक : श्रीपूजा ऑफसेट
नौबस्ता, कानपुर
जिल्दसाज : तवारक अली, पटकापुर, कानपुर

Bhartiya Sahitya Me Civil Sainik Sambandh

By : Dr. Ranjith M., Dr. Surya Boss

Price : Rs. Three Hundred Fifty Only.

डॉ. रंजित एम.

जन्म : 29.01.1977, तलशेशेरी (केरल)

शिक्षा :

एम.ए., एम.फिल्., पी-एच.डी., बी.एड., स्नातकोत्तर डिप्लोमा इन हिंदी अनुवाद

प्रकाशित पुस्तकें :

1. अज्ञेय और उनके तार सप्तक
2. हिंदी सूफी काव्यों में समाज दर्शन
3. अनार अब भी फूलते हैं (मलयालम के प्रसिद्ध लेखक सी. वी. बाल कृष्णन की कहानियों का अनुवाद)
4. हिंदी कथा साहित्य में नारी
5. हिंदी सूफी काव्यों में पर्यावरण

सम्प्रति : अध्यक्ष, हिन्दी विभाग, एम. इ. एस. कॉलेज, निडुमकंडम, इडुक्की जिला, केरल-685552

पता : उषम त्रिक्करिप्पूर पी. ओ., कामरगोड जिला, केरला-671310



डॉ. सूर्या बोस

जन्म : 30.10.1980, कोट्टीयम, केरल

शिक्षा :

एम.ए., एम.फिल्., पी-एच.डी., स्नातकोत्तर डिप्लोमा इन हिंदी अनुवाद

प्रकाशित पुस्तकें :

1. हिंदी कहानियों में बाल पात्र
2. अनार अब भी फूलते हैं (मलयालम के प्रसिद्ध लेखक सी. वी. बाल कृष्णन की कहानियों का अनुवाद)

सम्प्रति : हिन्दी, मलयालम अनुवाद एवं लेखन



माया प्रकाशन

(पुस्तक प्रकाशक एवं विक्रेता)

6A/540, II-फ्लोर आवास विकास हंसपुरम्

नीबस्ता, कानपुर-208021

मो० : 07618879266, 09451877266

E-mail : mayaparakashankanpur@gmail.com



ECOLOGIES OF THE
NEW:
MATTER, MIND & BODY



Volume 2

MES Mampad College (Autonomous)



23. Female-headed Households in Kerala

Jasna NM
Research Scholar
Department of Economics

Dr. KV Ramachandran
Department of Economics
Dr. Jishu Mathai Centre, Aranattukara

Introduction

The household is regarded as the fundamental social and economic unit of the society. During the last fifteen years we have made considerable progress in identifying the various forms of household compositions. Due to the introduction of Globalization, liberalization, and urbanization, we have moved gradually from a single form of family (joint family) to two forms (nuclear family) and then to a multiplicity of forms. The content of life (husband wife parent and the child relationship) in every household includes the interaction between the members of the household, their sentiments, their emotions, their pleasures and pains, tensions and conflicts etc. These interactions are guided by norms and values attached to position and roles of the members. In this regard every member of the household is important. But every role and relationship in the family, as well as its composition undergoes transformation in the developmental process.

The community that is the subject of this study is constituted of those women who earn the bulk of the family income and takes all the responsibilities of that family, widows, deserted and divorced women, and women who are separated from their husbands from long stretches of time due to migration and are virtually the heads of the households.

In this study I explore the factors that led to the creation of female headed households in Kerala and also identifying the problems and economic survival of the women to whom the Indian society and data system provide only very sketchy information.

The household is regarded as the fundamental social and economic unit of the society. Households headed by women have become more significant phenomenon worldwide in the last half of the 20th and beginning of 21st century. In many countries in the third world like Asian or Latin American countries, in the recent years, there has been a significant increase in the percentage of female headed households (FHH).

It is an important fact that female headed households are rising in number and proportion in most developing regions, currently constituting an estimated 13% of all households in the middle east and north africa, 16% in Asia, 22% in sub-Saharan Africa, and 24% in Latin America. In developing countries majority of households that are headed by women have many economic

Ecologies of the New: Matter, Mind & Body
Volume 2

Anthology of Research Papers

Editors

Chief Editor
Dr. P.K. Babu

Associate Editors
Dr. Sajid A. Latheef
Dept. of English, M.E.S Mampad college

Abdul Wahid K.
Dept. of Islamic History, M.E.S Mampad college

Dr. Mehar Al Minnath
Dept. of Chemistry, M.E.S Mampad college

Dr. K.M. Remia
Dept. of Zoology, M.E.S Mampad college

©Publication Division
DGM MES Mampad College
Mampad 676 542

Typesetting by
Sikha Grandhavedi, Olavattur

Lay out
Rajesh monji

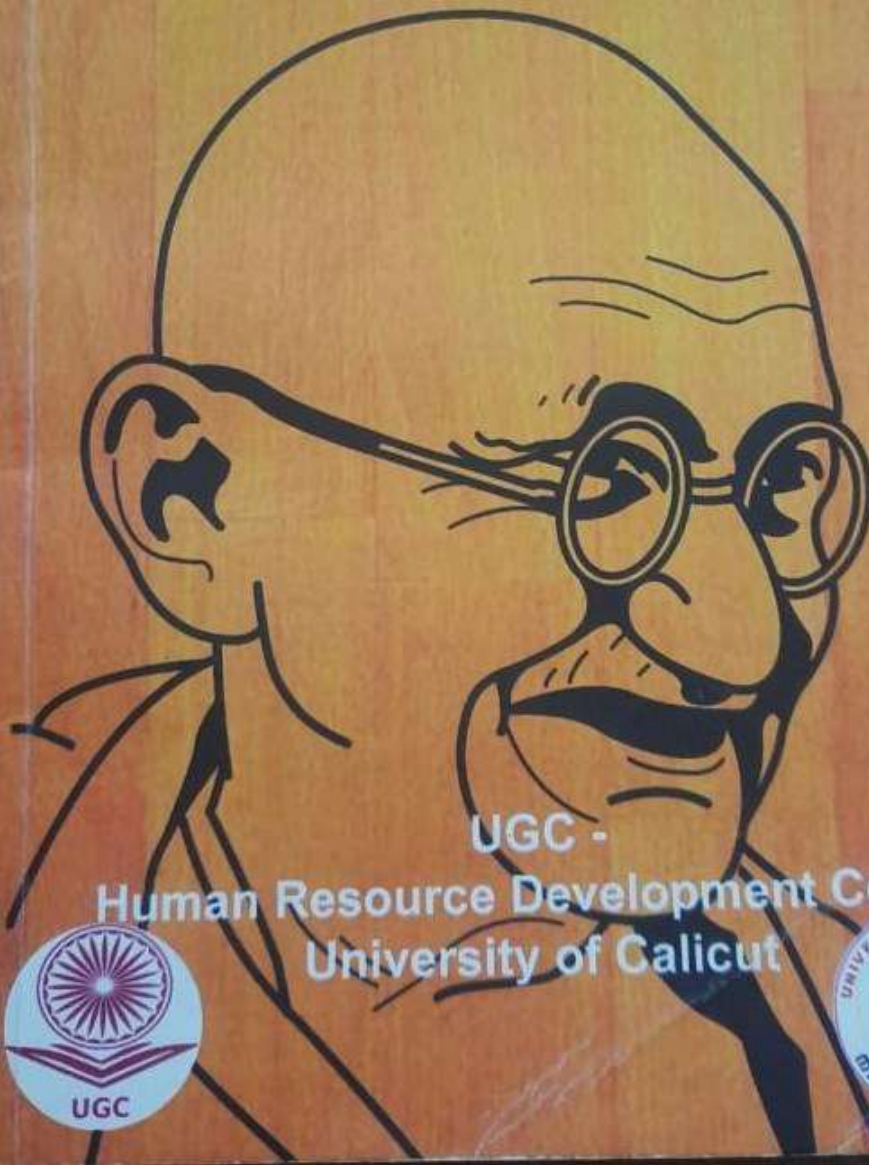
Printing
Hopuz Printers Ayikkarappadi

All rights Reserved.

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying or recording, or by any information storage and retrieval system, without permission in writing from the publisher.

ISBN 978-93-5300-711-9

GANDHIAN THOUGHTS: Different Perspectives



10. ABDUL RASHEED C K		
	Critique on Gandhian Ideology and Practice	109
11. ABOOBACKER P		
	Present Problems of India, Solutions given by Gandhi decades back	113
12. AJESH C A		
	Conversion and Nationalism, A critical reading on Gandhi, Kerala Experiences	119
13. ANITHA M		
	Gandhian Perspectives on Education : An overview	123
14. ANJUM HASSAN C A		
	Gandhian Outlook to Technology	136
15. CHITHRA P		
	Leadership style , An Analysis through Mahatma Gandhi	145
16. DEEPA ABRAHAM P		
	Gandhian Concept of Sustainable Development	152
17. HUSSAIN V		
	Redefining Economic Development through Gandhian Economic Ideas	160
18. JINCY V K		
	Life of Mahathma Gandhi An Inspiration for Social entrepreneurship	171
19. JISHA P J		
	Gandhian Perspectives on Environmental Sanitation to public Health , Transition over the years	179
20. LISHA K K		
	Gandhi and Bhagavath Geetha , an Appraisal	189

English

GANDHIAN THOUGHTS: Different Perspectives

Chief Editor: Prof. Dr. M.A. JOSEPH

Editor: Dr. DEEPA. P

Sub Editor: Dr. ISMAIL. V

Published in March 2019

By UGC-HUMAN RESOURCE DEVELOPMENT CENTRE, UNIVERSITY OF CALICUT

Layout: Anish-9349177497

Cover Design: Indulekha Dezines

Printed: Indulekha Books, Kozhikode

All rights reserved. No part of this publication may be reproduced, stored in or introduced into a retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher

ISBN: 978-81-940704-0-5

Rs. 700

Copies: 1000



Leadership Style, An Analysis through Mahatma Gandhi

Chithra .P

Assistant. Professor, P.G Department Of Commerce
M.E.S Asmabi College, Kodungallur

Introduction

Leadership is the art of motivating a group of people to act towards attaining a common goal. He or she is the person in the group that possesses the combination of personality and leadership skills that makes others want to follow his or her direction. Leadership style is the way a person uses power to lead other people. Research studies identified different types of leadership styles based on the character of the leader and followers. The appropriateness of the leadership styles depend on the function of the leader, the situation and the followers. Great leaders can inspire political movements and social change. They can prompt others to perform, create, and establish something new. Democratic Leadership, Autocratic Leadership, Laissez-Faire Leadership, Strategic Leadership spiritual leadership etc. are some of the examples of leadership styles

Gandhi's leadership style was considered as extremely complex. Knowing that violence only begets violence, he began practicing passive resistance, Satyagraha. Mahatma Gandhi was a leader that brought one of the world's most powerful nations to its knees... by using peace, love and integrity as his method for change. Mahathma Gandhi was not at all an academician or a sequestered visionary. He was deeply concerned with the world around him. He disclaimed being a visionary. He said: "Mere discipline cannot make leadership. The latter calls for faith and vision". The concept of Swaraj expresses the core of his vision for the citizen of India, from which the whole range of the concepts of Gandhian philosophy flows. It necessarily starts with political self-rule as a means



MESMAC International Conferences
MES Mampad College (Autonomous)

www.mesmac.in

Collection of selected papers presented
in MESMAC International Conference 3



BIO-EPISTEME: AN ANTHOLOGY OF RESEARCH PAPERS IN SCIENCE

People
FIRST?

MAN | MACHINE | MILIEU

15 | 16 | 17 January 2019

**Bio Episteme:
An Anthology of Research Papers in Science**

Editors

Chief Editor

Dr. P.K. Babu

Associate Editors

Dr. Megha U

Dept. of Physics, M.E.S Mampad college

Dr. Sajid A. Latheef

Dept. of English, M.E.S Mampad college

First Edition: January 2019

©Publication Division

DGM MES Mampad College

Mampad 676 542

Lay out:

Rajesh monji

All rights Reserved.

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying or recording, or by any information storage and retrieval system, without permission in writing from the publisher.

ISBN 978-93-5321-814-0

- 8. K Shabana, KM Suhada & BLV Prasad**
Synthesis of Sophorolipid from the Fungal Culture Medium
Candida Bombicola and their Separation 60

PROCESSED FOOD: HEALTHY OR CONVENIENCE?

- 9. Anjali PN, Sudheer KP & Sankalpa KB**
Development of Gaba Enriched RTE Flakes from Raktasali,
Kakasali and Kumkumasali Paddy Varieties 69
- 10. Vishal Sharma & Thanishq Das Gupta**
Compromise of Sensory Attributes Towards the Healthy
Nutritious Food: A Case Study of Aonla juice 73
- 11. Najwa khader KT, Hasker.E**
Formulation and shelf life studies of jaggery based sweet
(base sweet) and its utilization for various food preparations 87

BIO-EPISTEME

- 12. P Faseela & Jos T Puthur**
High intensity light induced photoinhibitory stress effects
on photosynthetic efficiency and antioxidant
defence mechanism in rice (Oryza sativa L.) seedlings 96
- 13. Shahanas NS & Jisha KC**
Phytoremediation Potential Evaluation of Four Selected
Aquatic Macrophytes 103
- 14. Manju Madhavan & Sheeja T Tharakan**
Phytochemical Studies and Bioactivity Potential of
CAESALPINIA SAPPAN Hot Water Extracts 115
- 15. Nazmin Banu**
Bioinformatics and Plant Science 120
- 16. Savidha Nandanam & Monisha KM**
Role of Phytase in the Plant based Diets of Catla Catla to
Improve the Protein and Phosphate Utilization 129

PHYSICAL EDUCATION

- 17. Dr. Sujoy Birbanshi**
The Impact of BMI on VO2 MAX 135

13.

PHYTOREMEDIATION POTENTIAL EVALUATION OF FOUR SELECTED AQUATIC MACROPHYTES

Shahanas N.S. and Jisha K.C.*

Assistant Professor

Department of Botany

MES Asmabi College, P. Vemballur, Thrissur

jishakc123@gmail.com

Abstract Heavy metal pollution in the water bodies is a serious threat to the world. Phytoremediation is the better solution of this serious threat, since most of the conventional methods are less effective, time consuming and expensive when compare to phytoremediation technology. In the present research work the phytoremediation potential of four aquatic macrophytes (*Azolla pinnata* R.Br., *Lemna minor* L., *Pistia stratiotes* L., and *Salvinia molesta* D. Mitch.) were compared by studying their stress related metabolism, photosynthetic pigment content and by estimating heavy metals using atomic absorption spectrophotometry. The various physiological and biochemical parameters as well as anatomical attributes were analyzed in the selected four aquatic macrophytes growing in less polluted and highly polluted aquatic habitats. From the results it was found that, all the selected four aquatic macrophytes growing in less polluted aquatic habitat showed more dry weight percentage and less moisture percentage. The photosynthetic pigments like chlorophyll-a, chlorophyll-b and carotenoids decreased under stressed conditions. The most common stress indicating compounds like proline and MDA was also higher in the samples collected from highly polluted aquatic habitats, except in few cases. Quantification of heavy metal showed high Fe content in all samples than Mg, Mn, Zn and Cu. Fe and Mg was the heavy metals which present in all the four aquatic macrophytes under investigation. While analyzing the anatomical attributes, the major difference was seen in the measurements of air cavities and body hairs which provide them buoyancy. Even though the stress related metabolism showed certain differences among the four aquatic macrophytes, they



വേഴാമ്പൽ



രണ്ട് ഭാഗങ്ങളിൽ

അമിതാബച്ചൻ കെ. എച്ച്.

എസ്. വി. വിനോദ് രാജേഷ് എൻ,
ചെയ്ത്ത് ഹൈസ്കൂൾ എഡ്യൂക്കേറ്റർ

ശ്യാമപ്രസാദ് ബുക്സ് പബ്ലിഷ് ചെയ്തതോടെ വാഴച്ചാലിൽ
നടന്നുവരുന്ന വേഴാമ്പൽ ആവാസവ്യവസ്ഥാ
സംരക്ഷണ നിരീക്ഷണാനുഭവങ്ങൾ

വേഴാമ്പൽ നിരീക്ഷണത്തിന്റെ ശാസ്ത്രീയമാനങ്ങൾ

അമിതാബച്ചൻ കെ. എച്ച്., അനിത കെ. ടി.

വാഴച്ചാലിൽ തുടങ്ങിവെച്ച വേഴാമ്പൽ കൂട് നിരീക്ഷണ പദ്ധതി ആദിവാസികളുടെ പ്രാദേശിക അറിവുകളെക്കൂടി ഉൾപ്പെടുത്തി വളരെ ലളിതമായ രീതിയിൽ എന്നാൽ അതിന്റെ ശാസ്ത്രീയ അറിഞ്ഞാൽ മങ്ങലേൽക്കാതെ വികസിപ്പിച്ചെടുത്തതുകൊണ്ട് കഴിഞ്ഞ പതിനഞ്ചു വർഷത്തെ നിരീക്ഷണവിവരങ്ങൾ ശാസ്ത്രലോകത്തിനും വനസംരക്ഷണത്തിനും മുതൽക്കൂട്ടാണ്.

നാളിതുവരെ ഏകദേശം 62 മലമുഴക്കി വേഴാമ്പൽ കൂടുകളും 6 പാണ്ടൻ വേഴാമ്പൽ കൂടുകളുമാണ് വാഴച്ചാൽ വനഡിവിഷന്റെ പരിധിയിൽ നിരീക്ഷിച്ചു പോരുന്നത്. തുടക്കത്തിൽ ഇരുപത്തിമൂന്ന് മലമുഴക്കി വേഴാമ്പലിൽ തുടങ്ങി അറുപത്തിരണ്ടിൽ എത്തിനിൽക്കുമ്പോൾ ഓരോവർഷവും നിലവിലുള്ള പുതിയ കൂടുകൾ കണ്ടെത്തിയത് മാത്രമല്ല പല ഭീഷണികൾ കൊണ്ട് ഉപേക്ഷിച്ചു പോയ കൂടുകൾ തിരിച്ച് സജീവമായതും പുതിയ മരങ്ങളിൽ കൂടുകൾ ഉണ്ടായതും ഈ പദ്ധതിയുടെ വിജയത്തിന്റെ സൂചികയാണ്. പരമ്പരാഗതമായി മത്സ്യത്തെയെന്നപ്പോലെ ചില സമയങ്ങളിൽ വേഴാമ്പലുകളെ പിടിച്ചിരുന്ന കാടർ ആദിവാസികൾ ഈ പദ്ധതിയെ അവരുടെ ഭാഗമാക്കി മാറ്റുകയും അത്തരത്തിലുള്ള പ്രവർത്തിയിൽ നിന്ന് പിന്മാറുകയും ചെയ്തതിന്റെ സൂചനയാണ് ഇക്കാലമത്രയും മൂക്കും പുഴക്കും ഷോളയാറിനും ഇടയിൽ വളരെ ദൂരെയുള്ള ഒരു കൂട്ടിൽ നിന്നും ഒരു പ്രാവശ്യമാണ് വേഴാമ്പലുകളെ എടുത്തതായി കണ്ടത്.

വാഴച്ചാൽ ഡിവിഷനിലെ ഒമ്പത് ആദിവാസി ഊരുകളിൽ നിന്ന് (8 കാടർ, 1 മലയർ) അൻപതോളം ആളുകൾ പലസമയങ്ങളിലായി നിരീക്ഷണത്തിൽ പങ്കാളികളായിട്ടുണ്ട്. വേഴാമ്പൽകൂടുകൾ നേരിടുന്ന പ്രധാന ഭീഷണികളെ ആറായി തിരിച്ചിട്ടുണ്ട്.

First edition published in 2019 by
The Niche Publications
Mathilakam, Thrissur Dt.
Kerala, India - Pin 680685
www.theniche.in

All rights reserved. No part of this publication may be reproduced, stored in retrieval system, or transmitted, in any form or by any means, without the prior permission in writing of the publisher, nor be otherwise circulated in all form of binding or cover other than that in which it is published and without similar condition including this condition being imposed on the subsequent purchases.

Copyright ©2019 Dr. K. H. Amitha Bachan. The Niche Publications.
Co publisher : Pulitzer Books

Design & Layout : Aneesh C. S.
Illustration : Swetha G.
Photograph : Dr.K. H. Amitha Bachan

Research : Western Ghats Hornbill Foundation
Support : IUCN Hornbill Specialist Group

ISBN 978-93-5351-307-8

Production by Western Ghats Hornbill Foundation
www.hornbillfoundation.org
Printed in India

Type setting : Bhavitha K. N., Pearlsnet, P. Vemballur.
Printed at : A One Press, Calicut.



Hornbill

Two decades

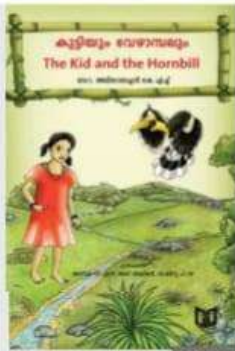
Scrutinized Experiences of protection of hornbill ecosystem with the companionship of tribal community of vaazhachal. Scientific norms of hornbill observation. There are a lot of living beings who depend on each other in the forest.



മുഖ്യം നവോത്ഥാനം പ്രസിദ്ധീകരണങ്ങൾ പുസ്തകങ്ങൾ രാജ്യം വാർഷിക വിലാസം ഇല്ലാത്ത



HOME PAGE : 4/3



കുട്ടിയും വേഴാമ്പലും

₹750.00

കഥ: ബാം. അമിതാബ്യാൻ കെ എച്ച്
ചിത്രീകരണം: അനീൽ സി എസ്, അഖില അമിതൻ, വിഷ്ണു പി വി

SKU: 1027

CATEGORIES: NEW ARRIVAL , അനീൽ സി എസ് , അഖില അമിതൻ പി എസ് , ബാം. അമിതാബ്യാൻ കെ എച്ച് , വിഷ്ണു പി വി , നവോത്ഥാനം പുസ്തകങ്ങൾ , 6-വയസ്സ്-മുതൽ , 2018 , കഥ , ബാലൻ ബുക്ക് , നവോത്ഥാനം പുസ്തകങ്ങൾ

DESCRIPTION

ADDITIONAL INFORMATION

Additional information

കഥ	ബാം. അമിതാബ്യാൻ കെ എച്ച്
ചിത്രീകരണം	അനീൽ സി എസ്, അഖില അമിതൻ പി എസ്, വിഷ്ണു പി വി
വിലാസം	നവോത്ഥാനം പുസ്തകങ്ങൾ
എഡിറ്റർ	അനീൽ കൃഷ്ണൻ എസ്, ബാലൻ ബുക്ക് എസ്
പുസ്തകങ്ങൾ സംഗ്രഹം	നവോത്ഥാനം പുസ്തകങ്ങൾ
പേജുകൾ	24
തീയതി	ജനുവരി 14
പ്രസിദ്ധീകരിച്ച വർഷം	2018
ISBN	978-82-67136-62-5

Related products





വേഴാമ്പലും തെളിവിത്തും

₹50.00

രചന: മധാ. അമിതാബ്യാൻ കെ എച്ച്
ചിത്രീകരണം: അമി അകിബർ പി എൻ

SKU: 1025

CATEGORIES: NEW ARRIVAL , അമി അകിബർ പി എൻ , മധാ അമിതാബ്യാൻ കെ എച്ച് , നവനീൽ കൃഷ്ണൻ എൻ , റോമസ്റ്റ-മുരളി , 2016 , കഥ , സെക്കിൻ ഓ എൻ , നവനീൽ കൃഷ്ണൻ എൻ

DESCRIPTION	ADDITIONAL INFORMATION
-------------	------------------------

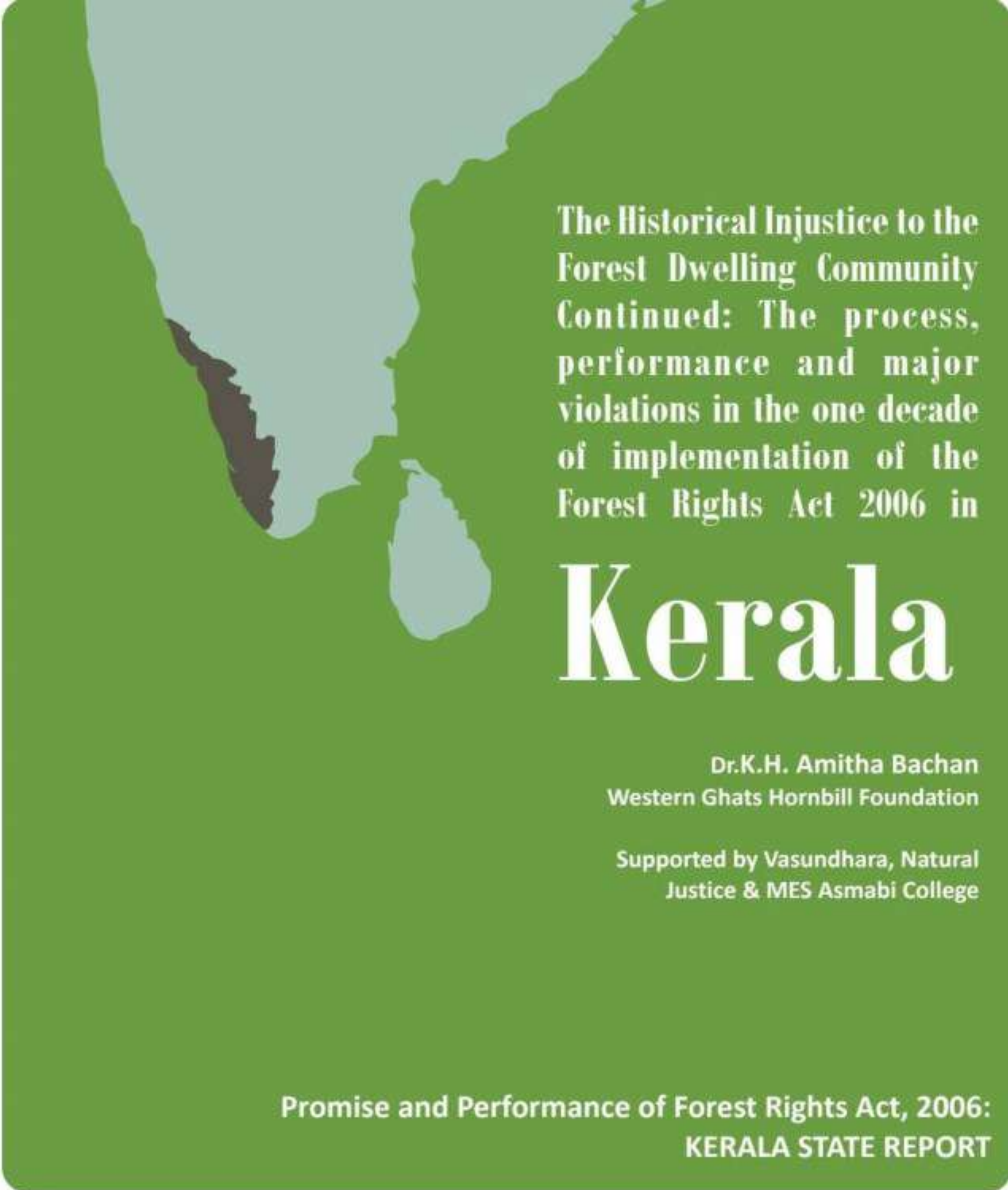
Description

പരസ്പരം ആശ്രയിച്ചു ജീവിക്കുന്ന ഒട്ടേറെ ജീവികളുടെ കാര്യം. വേഴാമ്പലും തെളിവിത്തും തമ്മിലുള്ള അടുക്കത്തിൽ പരസ്പരം സഹായിച്ചു ജീവിക്കുന്നവരാണ്. അവരുടെ കഥയാണ് ചേറിയ കുട്ടികൾക്കുള്ള ഈ ചിത്രപുസ്തകം.

Related products

- മിന്നിപ്പാട്ട്
- മിന്നിപ്പാട്ട് (മറ്റൊരു പുസ്തകം)
- ചിലന്തിവല
- ഇതൊരു മനുഷ്യം കഥ

There are a lot of living beings who depend on each other in the forest. The hornbill and black dammar seed are such beings too. This picture book for children is a depiction of that.



The Historical Injustice to the
Forest Dwelling Community
Continued: The process,
performance and major
violations in the one decade
of implementation of the
Forest Rights Act 2006 in

Kerala

Dr.K.H. Amitha Bachan
Western Ghats Hornbill Foundation

Supported by Vasundhara, Natural
Justice & MES Asmabi College

Promise and Performance of Forest Rights Act, 2006:
KERALA STATE REPORT



Produced as part of
COMMUNITY FOREST RIGHTS
LEARNING & ADVOCACY PROCESS
CFRLA, RRI

Western Ghats Hornbill Foundation
'Aranyak'
Mathilakam P.O
pin-680685
Kerala, India
www.hornbillfoundation.org
copyright © western ghats hornbill foundation

Produced as part of
COMMUNITY FOREST RIGHTS
LEARNING & ADVOCACY PROCESS

A website
(<http://fra.org.in>)
and a list serve based discussion group
(<http://groups.google.com/forum/#!forum/CFR-la>)
have been created as part of CFR-LA

To know more please log on to
www.cfla.org.in



ISBN 978-81-927105-6-8



File 1242128.indd 1

Historical Injustice to the Forest Dwelling Communities Continued

The process, performance and violations in the first decade of implementation of the Forest Rights Act 2006 in Kerala

Dr.K.H. Amitha Bachan

Western Ghats Hornbill Foundation

Supported by Vasundhara, Natural Justice & MES Asmabi College

**Produced as part of Community Forest Right Learning and Advocacy process
CFRLA, RRI**

Chapter I: Introduction

In 2006, the Indian Parliament enacted The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (hitherto referred as Forest Rights Act (FRA)), a unique emancipatory law with the potential to transform the lives and livelihoods of hundreds of millions of forest-dependent people. The law vests a number of rights over forest lands to forest dependent Scheduled tribes and other forest dwellers, including individual rights over occupied forest lands, community rights over Non Timber Forest Products (NTFP) and other forest produce and the rights to protect and manage Community Forest Resource Rights within traditional village boundaries. The most important right which has a bearing on forest governance and the welfare of tribals and forest dwellers is that of Community Forest Resource Rights.

FRA 2006, its rules 2008 as amended in 2012, is one of the best legal instruments ensuring sustainable livelihood, inclusive conservation and progressive democracy in the grassroot level with the upliftment of the forest dependent community especially Adivasis, Particularly Vulnerable Tribal Groups (PVTG) and women. The various Community Rights (CRs) including full right of the Gramasabha (GS) on Minor Forest Produces including Bamboo and Individual Forest Right (IFR), Record of Right on land of habitation and agriculture can play a great role ensuring the sustainable livelihood of forest dwelling community leading to more sustainability to the land and forest resources if implemented properly. The role of Adivasi community on forest, wildlife and biodiversity is well understood and the paradox of expelling indigenous communities out of the forest areas and increased plantation and development activities within the forest has been a centre stage of discourse for the last few decades. The CFR right is a new conservation area which empowers local communities and their heterogenic traditional practices to support conservation and forest management. The FRA visualise the Tribal Grama Sabha or (Oorukootam) village assembly with the leadership of elected 10-15 membered Forest Right Committees (FRCs) and the Community Forest Resource Management Committees (CFRMCs) as the grassroots level decision making bodies in the matters of Forest Diversion, Forest, Wildlife and Biodiversity protection and management and also the sustainable use and marketing of MFPs. This is indeed a progressive democratic step towards democratisation of the colonial forest legislation first time for independent India.

The FRA 2006 has completed ten years of its enactment and its progress in national and the local Level reflects issues of placement of actual participatory democracy, inclusive conservation and justice to the Adivasis. According to the status report on implementation of Forest Rights Act, by MoTA, GoI, till 31st January, 2017, 41,71,788 claims (40,35,513 individual and 1,36,275 community claims) have been filed and 17,83,262 titles (17,20,742 individual and 62,520 community claims) have been distributed (CFR-LA 2016). The provisions for community rights and community forest resource rights form a key component of the Forest Rights Act and recognition of these rights remain a major area of challenge in the process of implementation even after a lapse of 10 years of enactment.

TABLE OF CONTENTS

1	Chapter I: Introduction	6
2	Chapter II: Objectives and Methodology	10
3	Chapter III : Key findings	12
4	Chapter IV : Summary and Recommendations	30
5	Chapter V: Major human right violations associated with FRA 2006 implementation in Kerala	33
6	Reference	34
7	Case Study-1 :Systemic violence on tribes including KattunaikkaPVTG and violation of the existing legislation by the State. Relocation of Tribes Wayanad Wildlife Sanctuary since 2006	35
8	Case Study-2 :The CFR process in Thrissur District of Kerala (Malakkappara-Vazhachal-Kadar Experience)	35
9	Case Study-3 :The Malakkapara Kadar GS- Post CFR Scenario in Kerala	36
10	Case Study-4:Habitat Right of PVTG	37
11	Case Study-5:Value Added Bamboo Product - Malakkappara Kadar CFRMC	38
12	Case Study-6:Violation of MFP right by Forest Official in Attappady	39
13	Case Study-7:Horubill and MFP Monitoring involving Tribal Community	40
14	Case Study-8:Impact of Forestry Practices on Primary Natural Forests in Western Ghats, A case study	42
15	Case Study-9 :Formation of District level FRC coordination committee in Thiruvananthapuram	43
16	Case Study-10 :Violation of CFR mapping in Wayanad	43
17	Appendix 1 :Statutory and legal provisions of FRA and CFR at a glance (Definitions of Village, Grama Sabha, CFR, CFRmC, Various Rights under FRA, powers and functions of GS, CFR and CFRmC)	45
18	Appendix 2 : Table	53

AL ARABIYYA LIL MUTHAQADDIMEEN

Prescribed Text Book for First Semester
BCom and BBA, University of Calicut

Edited by

Sakkeena.M.K

Assistant Professor, MES Asmabi Collge,
Kodungallur

Aboobacker.M

Assistant Professor, NSS College, Manjeri

edumart

Tirurangudi Towers, Marvooor Road, Calicut-4
Tel : 0485-2724395,4940395,3010313

Calicut : 0485 2724395
Malappuram : 0483 2736685
Tiruvandur : 0471 2322223

ARC163



زیه ملقتملا قیبرعانا

قو لجتنا رة رسویر والابلا قو لعا قو مللا ربقه بولتا
تو مللا قو لعا تبعة والمدو قو لعا رة رسویر والابلا

Al Arabiyya lil Muthaqaddimeen

(Bcom / BBA First Semester Common Course Textbook)

by: **Sakeena M.K, Abubacker M**

EDITORIAL BOARD

Dr. Saidalavi. U

Dr. Muhammed Haneefa

Dr. Jabir Amani

Dr. Abdul Jaleel

Dr. Abdul Azeez

Dr. Abdul Majeed

Mr. Jaleel. TK

Second edition: October 2020

printed & published by
**ashrafi book centre &
tirurangadi printers**
tirurangadi, Tel: 9048000020

distributed by:

edumart

calicut, malappuram ,
thrissur, thalappara,
manjeri

tirurangadi book stall

Century complex, calicut, tel: 0495 296002
masjid bazar, calicut, tel: 0495 2721769
korambayil arcade, manjeri, tel: 0483 2762607

Price Rs. 58/-

© copy rights reserved

Content:

Module-1 :Conversations

المقابلة An Interview

في المصرف In the Bank

From Hadeeth فمن رغب عن سنّي فليس منّي

Module- 2: Stories

Ten advices for success in practical life عشر وصايا للتّجّاح في الحياة

العملية العمليّة

With Scholars مع العلماء

The Love of Mother حبّ الأمّ

The Judge – Shuraih شرح القاضي

Module- 3 : Drama

Shamsu al Nahar- (شمس التّهار) Second scene from the Drama

Thaufeequl Hakeem

Module- 4 : Commercial Correspondence

Job Application طلب للوظيفة

Enquiry about Book استعلام عن كتاب

Order for Books طلب للكتب

Bill فاتورة

العربية للمتقدمين: Prescribed Book

Edited by

Sakkeena.M.K and Aboobacker. M

Content:

1. Interview

Interview in an accounting company. Asks about nationality, qualifications, language etc.

2. Bank

Talks about starting an account.

3. Hadith

Whoever turns away from my Sunnah is not of me.

4. Ten commandments for success in professional life

- a) Try to understand yourself
- b) Train yourself to organized thinking
- c) Face practical life with joy and optimism

5. With scientists

After the Muslims conquered Persia and the Levant, they found libraries full of Greek books, so they translated them into Arabic. The Muslims learned many foreign languages, such as Greek and Latin, and translated the sciences therein.....

6. Mother's love

One of my friends invited me to spend my vacation with him in his beautiful, distant country. He lived in a small town half a day's drive from the capital. We spent it talking and laughing and enjoying the beautiful mountain views. The weather was hot in the capital. However, as we climbed the mountains, the weather moderated and became cold....

7. Shareh Al-Qadi

Omar bin Al-Khattab bought a horse from a Bedouin, paid him its price, then mounted on its back and set off. After a short while, a defect appeared on the horse that prevented it from running, so Omar returned it to its owner and said to him: Take your horse, for it is defective. The Bedouin said: I will not take it, O Commander of the Faithful. I sold it to you intact, and Omar said: Make an arbitrator between you and me. The man said: Shurayh bin Harith Al-Kindi will judge between us. Omar said: I am satisfied with it....

8. Sunshine

Shams al-Nahar is a princess and the daughter of the King of Blessings. She excelled at riding horses, playing with swords, reading books, meditating for a long time, and practicing asceticism in what is surprising and awe-inspiring. She chooses Qamar Al-Zaman as her husband, because he passed the test she set for marriage. Qamar Al-Zaman is poor and has no home or family. But he is a gentleman. He doesn't like to live with her in the palace. He asks her to leave the palace and then live with him in the air.....

9. Application for the job

10. Book inquiry

11. Request for books

12. Invoice

ما أجمل اللغة!

Dr. MOHAMMED HANEEFA P



LANGUAGE SKILLS IN
ARABIC

(textbook for BA/BSc. Common Course, 1st Semester)

13x
39+3

المحتويات

٧	تَحِيَّاتٌ وَتَعَاظِفٌ	الوحدة ١
١٩	لَا تَنْتَقِدْ!	الوحدة ٢
٣١	عِنْدَ الطَّيِّبِ	الوحدة ٣
٣٨	النَّسْرُ وَالْقُبْرَةُ	الوحدة ٤
٤٧	أَحْبَبُكَ أَكْثَرَ	الوحدة ٥
٥١	هل يعجبك هذا القميص؟	الوحدة ٦
٥٨	طَرَائِفُ عَرَبِيَّةٍ	الوحدة ٧
٦٩	أَيْنَ قَائِمَةُ الطَّعَامِ؟	الوحدة ٨
٧٦	مِنْ يَوْمِيَّاتٍ وَوَلِيدٍ	الوحدة ٩
٨٥	نَذْهَبُ إِلَى السِّيْنِمَا؟	الوحدة ١٠
٩١	صَلَاةٌ إِلَى الْعَامِ الْجَدِيدِ	الوحدة ١١
٩٥	مُقَابَلَةٌ لِلْوِظِيْفَةِ	الوحدة ١٢

EDITORIAL BOARD

Dr. Saidalavi. U

Associate Professor & Chairman, Board of Studies.

Dr. Abdul Azeez. M

Asst. Professor, Govt. College, Kodenchery.

Dr. Jabir. AM

Asst. Professor, Sullamussalam Science College, Areecode.

Dr. Abdul Majeed. T

Asst. Professor, Farook College.

Dr. Abdul Jaleel. T

Asst. Professor, PTM Govt. College, Perinthalmanna.

Prof. Sakkeena. MK

Asst. Professor, MES Asmabi College, Kodungallur.

Prof. Jaleel. TK

Asst. Professor, MES Kalladi College, Mannarkkad.

Prof. Aboobacker. M

Asst. Professor, NSS College, Manjeri.



ما أجمل اللغة!

د/ محمد حنيف. بي

النشر الأول: ٢٠١٩م

ISBN: 978-81-939204-9-7

الطبع والنشر: مكتبة الهدى، كاليكوت

ممنوع نشر أصل أو ترجمة لهذا الكتاب أو جزء منهما بغير إذن الناشرين

٢٥/٠٧/٢٠١٩/٠٨/٥٠٠/٠١

PREFACE

The book Maa Ajmalallugha, recommended by the University of Calicut to the students of first semester B.A/B.Sc Under Graduate Courses., not only provides the students opportunity to familiarize with the literary styles of different genre, but it also enables them to develop communicative skill in Arabic language, and especially to converse in the diverse life situations. Since every chapter is provided with adequate language exercise at the end, the book helps the readers to acquire skill for bilingual translation. As the conventional grammar teaching has given way to applied grammar, I have taken enough care to provide ample student-friendly, simple practical language proficiency tests also, which fulfills the objective of the teaching learning process. Laying sufficient emphasis on bilingual translation and common usages, the book seeks to develop the problem solving capabilities of the students in target language. It is hoped that the student as well as the teaching community would welcome the present attempt, thanks to its learner-friendly nature. However, the facilitators are requested to ensure that all exercises given in the course book are done either in the class room or by home assignments or both, however simple they might be. Blank pages for doing translation exercises have also been provided. Learners may be prompted to do these translations on their own in the given space.

Dr. S
Asso
Dr.
Asst
Dr.
Ass
Dr
As
Dr
As
P
A
P
A
I

www.arabicsonweb.com



من وحي الأدب

قراءة في الأدب العربي الحديث

د/ عبد المجيد تي



Exercises in this book are supported by audio visual materials. For more details Please visit: www.arabiconweb.com

Literature Reader

Appreciating Arabic Literature

Dr. ABDUL MAJEED. T

an imprint of **eduface**

معناهم
الحكمة للنشر

ISBN: 978-81-940076-4-7



9 788194 007647

EDITORIAL BOARD

Dr. A.B. Moideenkutty

Associate Professor and Chairman
Board of Studies of Arabic (P G), University of Calicut

Dr. Saidalavi U.

Associate Professor and Chairman
Board of Studies of Arabic (U G), University of Calicut

Dr. Abdul Azeez M.

Associate Professor. Govt. College, Kodenjery

Dr. Mohammed Haneefa P.

Associate Professor, EMEA College of Arts & Science, Kondoty

Dr. Jabir A.M.

Asst. Professor, Sullamussalam Science College, Areekode

Dr. Abdul Jaleel T.

Asst. Professor, PTM Govt. College, Perinthalmanna

Prof. Sakkeena M.K.

Asst. Professor, MES Asmabi College, Kodungallur

Prof. Jaleel T.K.

Asst. Professor, MES Kalladi College, Mannarkkad

Prof. Aboobacker M.

Asst. Professor, NSS College, Manjeri

من وحي الأدب

(قراءة في الأدب العربي الحديث)

د / عبد المجيد تي

أستاذ مساعد. كلية فاروق. تحت جامعة كالكوت

عضو. مجلس الدراسات للبيكالورية العربية (أفضل العلماء) سابقا

عضو. مجلس الدراسات للبيكالورية العربية جامعة كالكوت. كيرالا. الهند

الطبع والنشر:

الحكمة للنشر. (بصمة النشر) J eduface books

حقوق الطبع محفوظة لدى الناشر

EDF/HKM/AR /2019/03

المحتويات

5	:	مقدمة	▪
7	أقصوصة	رفيقة	: الوحدة 1	▪
13	قصة قصيرة	إبليس ينتصر	: الوحدة 2	▪
23	شعر	الرضاء بقضاء الله	: الوحدة 3	▪
29	حوار	بطني سينفجر	: الوحدة 4	▪
39	مقالة	اصنع من الليمون	: الوحدة 5	▪
45	شعر	يا أخي الإنسان	: الوحدة 6	▪
50	قصة	الغريب	: الوحدة 7	▪
63	مذكرة رحلة	رحلة إلى ماليزيا	: الوحدة 8	▪
72	معجم المفردات الصعبة	: ملحقات	
85	أسئلة نموذجية	:	

It is a book named Min vahyil- adab (Appreciating Arabic literature) which is a common course book for bachelor of arts and bachelor of science under the university of calicut. It is edited by Dr. Abdul Majeed T (Assistant professor, Farook college). It contains 8 chapters.

1. Mate - story
2. Satan wins - short story
3. Satisfaction with God's will - poem
4. My stomach is going to explode - conversation
5. Make with lemon - article
6. Oh my fellow human being - poem
7. The stranger - story
8. A trip to Malaysia - trip note

AL BASEETH

البسيط

د/ محمد حنيف

الأستاذ المشارك

قسم اللغة العربية بجامعة كاليكوت



READING

ARABIC LITERATURE

Text Book for BSc. (LRP) Common Course 2nd Semester

This book is intended to be the text book for BSc.(LRP) Common course 1st semester of University of Calicut. The book introduces writers ranging from Kahlil Gibran, Mahmud Dervish and Nizar Qabbani among others and helps undergraduate students develop their communication skills in Arabic through studying literary samples of different genres and through situational conversations pertaining to diverse real life contexts. Each chapter is then followed by corresponding language exercises with sufficient emphasis on bilingual translation. Sufficient care has been taken to provide ample but simple language exercises in a student's friendly manner to enable the proficiency in the target language. AL BASEETH is designed in the pattern of a workbook keeping up the modern methodologies of language acquisition. The method followed here is of enabling students to learn grammar through real life like situations instead of the outdated method of teaching grammar as such.

Facilitators are requested to ensure that all exercises given in the book are done inside the class rooms themselves, however simple they might seem. Blank space for doing translation exercises are also provided. Learners may be prompted to do these translations on their own given space.

Dr. Mohammed Haneefa P, Associate Professor (on deputation) and Research Guide in the Department of Arabic, University of Calicut has been teaching Arabic language and literature in the university system for the last two decades, and has published widely on the areas of his research interest in various national and international journals. There are seven prescribed text books which are being taught in colleges affiliated to Kannur and Calicut universities. The works penned or edited by Mohammed Haneefa are: *Abqariyyun wa Mikhael Nuaima: Al Adeebuthair*, *Muhadasath Youmiyya, Ma Murasalath, Al Ajnihath, Al Mashayirul Adabiyya, Ma Ajmalal-Muhavara*. He has been elected to the Boards of Studies in Arabic Language and Literature in various colleges during different tenures of his career in Kannur and Calicut and he has also been elected to the Faculty of Humanities and the Faculty of Languages of University of Calicut.

HUDA BOOK STALL

Koduvayal, Kozhikode. Tel: +91 9946 00 55 12

₹80/-

ISBN 978-81-943856-2-2



9 788194 385622 >

EDITORIAL BOARD MEMBERS

1. **DR. AB MOIDEENKUTTY,**
CHAIRMAN, BOARD OF STUDIES (PG)
2. **DR. SAIDALAVI. U,**
CHAIRMAN, BOARD OF STUDIES (UG)
3. **DR. ABDUL AZEEZ. M,**
ASST. PROF. GOVT. COLLEGE, KODENCHERY.
4. **DR. JABIR. AM,**
ASST. PROF. SULLAMUSSALAM SCIENCE COLLEGE, AREECODE.
5. **DR. ABDUL MAJEED. T,**
ASST. PROF. FAROOK COLLEGE.
6. **DR. ABDUL JALEEL. T,**
ASST. PROF. PTM GOVT. COLLEGE, PERINTHALMANNA.
7. **PROF. SAKKEENA. MK,**
ASST. PROF. MES ASMABI COLLEGE, KODUNGALLUR.
8. **PROF. JALEEL. TK,**
ASST. PROF. MES KALLADI COLLEGE, MANNARKKAD.
9. **PROF. ABOOBACKER. M,**
ASST. PROF. NSS COLLEGE, MANJERI.

المحتويات

7	اللغة الأخرى - جبران خليل جبران.	الوحدة ١
16	عرّف نفسك - الحوار.	الوحدة ٢
26	كفّ الأذى - د. عبدالرحمن العريفي.	الوحدة ٣
39	أول يوم في الجامعة - الحوار.	الوحدة ٤
47	القدس - نزار قباني. (الشعر)	الوحدة ٥
51	عندنا غرفة محجوزة لك - الحوار.	الوحدة ٦
59	قصص من جحا.	الوحدة ٧
70	هذه الوردة لك مني - الحوار.	الوحدة ٨
78	لن ننسى - نجيبة محمد الرفاعي.	الوحدة ٩
90	مقابلة للوظيفة - الحوار.	الوحدة ١٠
98	بطاقة هوية - محمود درويش. (الشعر)	الوحدة ١١
104	لماذا تغيبت عن الدراسة؟ - الحوار.	الوحدة ١٢

PREFACE

Al Baseeth is a comprehensive language skill development course with specially designed different modules for students of under graduate courses. The book acquaints the young readers with the exquisite literary styles as well as the excellent intellectual ideas of a variety of renowned writers ranging from Kahlil Gibran, the Philosopher of love, to the Palestinian national poet Mahmud Dervish and Nizar Qabbani among others and also helps undergraduate students develop their communication skills in Arabic through studying literary samples of different genres and through situational conversations pertaining to diverse real life contexts. The University of Calicut has recommended this book for the students with the objective of developing language proficiency in Arabic. Since the conventional method of grammar teaching has been replaced for applied grammar, the book has given enough space for practical language proficiency and development of fluency in Arabic speaking. I have largely adopted a learner centered approach in the organization of different modules in the book which provides the students ample practical learning experience.

Each lesson in the book is meticulously composed with such an objective, and a set of comprehensive exercises is included for enabling the learners to acquire language proficiency in both literary usage as well as verbal skill. So the facilitators are requested to ensure that all exercises given in the course book are done inside the class rooms themselves, however simple they might

Saleena Mathew · Maya Raman
Manjusha Kalarikkathara Parameswaran
Dhanya Pulikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

 Springer

Saleena Mathew · Maya Raman · Manjusha Kalarikkathara Parameswaran · Dhanya Puhkkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

This novel and informative book discusses the various aspects of seafood quality. The book is divided into 7 broad sections, each tackling a different aspect. The first section covers the general aspects relevant to the nutritional quality of the fish and the various extraction protocols for macro-/ micro-nutrients. The second section provides insights into handling and the principles of thermal and non-thermal processing techniques for commercially important fishery products. The quality standards and safety concerns in the seafood industry and consumption are discussed in this section. The freshness indices of the processed products including biochemical, microbiological and toxicological characteristics are also included. The third section discusses the physico-chemical characteristics and quality parameters of potable water/ ice. The fourth section includes the quality assessment of various toxicants related to seafood products. The fifth section deals with the specific aspects such as principle, instrument and procedures of conventional and novel analytical instruments relevant to the seafood industry. The sixth section deals with the seafood waste management including solid and liquid seafood wastes. Presently, there is a great awareness regarding environmental sustainable processing/ preservation techniques. The final chapter discusses the bioactive compounds from under-utilized marine sources showing pharmaceutical/ nutraceutical applications.

ISBN 978-981-32-9573-5



► springer.com



Saleena Mathew
School of Industrial Fisheries
Cochin University of Science and
Technology
Kochi, Kerala, India

Manjusha Kalatikkathara Parameswaran
School of Industrial Fisheries
Cochin University of Science and
Technology
Kochi, Kerala, India

Maya Raman
Department of Food Science and
Technology, School of Ocean Science
and Technology
Kerala University of Fisheries
and Ocean Studies
Kochi, Kerala, India

Dhanya Pulikkotil Rajan
Department of Aquaculture
M.E.S Asmabi College
Kochi, Kerala, India

ISBN 978-981-32-9573-5 ISBN 978-981-32-9574-2 (eBook)
<https://doi.org/10.1007/978-981-32-9574-2>

© Springer Nature Singapore Pte Ltd. 2019

This work is subject to copyright. All rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors, and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, express or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Singapore Pte Ltd.
The registered company address is: 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore

Saleena Mathew · Maya Raman
Manjusha Kalarikkathara Parameswaran
Dhanya Pulikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

 Springer

Saleena Mathew · Maya Raman · Manjusha Kalarikkathara Parameswaran · Dhanya Puhikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

This novel and informative book discusses the various aspects of seafood quality. The book is divided into 7 broad sections, each tackling a different aspect. The first section covers the general aspects relevant to the nutritional quality of the fish and the various extraction protocols for macro- / micro-nutrients. The second section provides insights into handling and the principles of thermal and non-thermal processing techniques for commercially important fishery products. The quality standards and safety concerns in the seafood industry and consumption are discussed in this section. The freshness indices of the processed products including biochemical, microbiological and toxicological characteristics are also included. The third section discusses the physico-chemical characteristics and quality parameters of potable water/ ice. The fourth section includes the quality assessment of various toxicants related to seafood products. The fifth section deals with the specific aspects such as principle, instrument and procedures of conventional and novel analytical instruments relevant to the seafood industry. The sixth section deals with the seafood waste management including solid and liquid seafood wastes. Presently, there is a great awareness regarding environmental sustainable processing/ preservation techniques. The final chapter discusses the bioactive compounds from under-utilized marine sources showing pharmaceutical/ nutraceutical applications.

ISBN 978-981-32-9573-5



► springer.com



Saleena Mathew
School of Industrial Fisheries
Cochin University of Science and
Technology
Kochi, Kerala, India

Manjusha Kalatikkathara Parameswaran
School of Industrial Fisheries
Cochin University of Science and
Technology
Kochi, Kerala, India

Maya Ramani
Department of Food Science and
Technology, School of Ocean Sciences
and Technology
Kerala University of Fisheries
and Ocean Studies
Kochi, Kerala, India

Dhanya Pulikkottil Rajan
Department of Aquaculture
M.E.S Asmabi College
Kochi, Kerala, India

ISBN 978-981-32-9573-5 ISBN 978-981-32-9574-2 (eBook)
<https://doi.org/10.1007/978-981-32-9574-2>

© Springer Nature Singapore Pte Ltd. 2019

This work is subject to copyright. All rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors, and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, express or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Singapore Pte Ltd.
The registered company address is: 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore

1.1 Nutritional Quality of Fish

1.1.1 Water: The Universal Solvent

Water is the most profusely found substance in living systems, making up 70% or more of the weight of most organisms. Water is an elemental and often predominant constituent in many foods. It supports chemical reactions and also reactant in hydrolytic processes. In the food preservation point of view, the removal or binding of water hinders many reactions and therefore inhibits the growth of microorganisms and improves the shelf lives of foods. Water also contributes considerably to the texture of food because it interacts with other constituents, viz., proteins, polysaccharides, lipids, and salts.

Water forms hydrogen bonds with itself and with solutes. Hydrogen bonds between water molecules provide the cohesive forces that make water a liquid at room temperature. Water has a higher melting point, boiling point, and heat of vaporization than most other common solvents. Attractive forces between adjacent water molecules give the liquid state of water great internal cohesion. Polar biomolecules dissolve readily in water because they can substitute water-water interactions with more energetically favorable water-solute interactions. The water molecule and its ionization products, H and OH, influence the structure, self-assembly, and properties of all cellular components, including proteins, nucleic acids, and lipids. The attractive forces between water molecules and the slight tendency of water to ionize are of crucial importance to the structure and function of biomolecules.

1.1.1.1 Chemistry of Water Molecule

Each hydrogen atom of a water molecule shares an electron pair with the central oxygen atom. The H-O-H bond angle is 104.5° , i.e., 5° less than the bond angle of a perfect tetrahedron (109.5°). The nonbonding orbitals of the oxygen atom slightly compress the orbitals shared by hydrogen. The oxygen nucleus attracts electrons more strongly than does the hydrogen nucleus (i.e., the proton), and hence oxygen

Contents

1	Assessment of Nutritional Quality of Fish	1
1.1	Nutritional Quality of Fish	1
1.1.1	Water: The Universal Solvent	1
1.1.2	Fish Proteins	6
1.1.3	Fish Lipids	12
1.1.4	Nonprotein Nitrogenous Compounds	15
1.1.5	Vitamins, Minerals, and Trace Elements	22
1.1.6	Carbohydrates	32
1.1.7	Flavor Bearing Constituents	37
1.2	Proximate Composition/Nutritional Quality Evaluation	39
1.2.1	Analysis of Moisture	39
1.2.2	Analysis of Protein	40
1.2.3	Analysis of Crude Lipid	42
1.2.4	Analysis of Ash Content	43
1.2.5	Analysis of Carbohydrates	45
1.3	Amino Acid Composition Analysis by HPLC	46
1.3.1	Sample Preparation for Amino Acid Analysis	47
1.3.2	Apparatus	47
1.3.3	Chromatographic Conditions	47
1.4	Analysis of Fatty Acids	48
1.4.1	Analysis of Fatty Acids Using Gas Chromatography-Mass Spectrometry (GC-MS)	49
1.4.2	¹ H-NMR Spectroscopy of Fatty Acids	50
1.5	Analysis of Phospholipids	51
1.5.1	Direct Estimation of Phospholipids (Colorimetric Method)	51
1.5.2	Phospholipid Determination by Phosphorous Assay	51
1.5.3	HPLC of Phospholipids	53
1.6	Analysis of Vitamins	54
1.6.1	Analysis of Water-Soluble Vitamins	54
1.6.2	Analysis of Fat-Soluble Vitamins	54

Saleena Mathew · Maya Raman
Manjusha Kalarikkathara Parameswaran
Dhanya Pulikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

 Springer

Saleena Mathew · Maya Raman · Manjusha Kalarikkathara Parameswaran · Dhanya Puhkkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

This novel and informative book discusses the various aspects of seafood quality. The book is divided into 7 broad sections, each tackling a different aspect. The first section covers the general aspects relevant to the nutritional quality of the fish and the various extraction protocols for macro-/ micro-nutrients. The second section provides insights into handling and the principles of thermal and non-thermal processing techniques for commercially important fishery products. The quality standards and safety concerns in the seafood industry and consumption are discussed in this section. The freshness indices of the processed products including biochemical, microbiological and toxicological characteristics are also included. The third section discusses the physico-chemical characteristics and quality parameters of potable water/ ice. The fourth section includes the quality assessment of various toxicants related to seafood products. The fifth section deals with the specific aspects such as principle, instrument and procedures of conventional and novel analytical instruments relevant to the seafood industry. The sixth section deals with the seafood waste management including solid and liquid seafood wastes. Presently, there is a great awareness regarding environmental sustainable processing/ preservation techniques. The final chapter discusses the bioactive compounds from under-utilized marine sources showing pharmaceutical/ nutraceutical applications.

ISBN 978-981-32-9573-5



► springer.com



1.7	Analysis of Minerals	55
1.7.1	Atomic Absorption Spectrophotometry	56
	References	60
2	Fish and Fishery Products: Quality Indices	61
2.1	Processing of Various Fish and Seafood	61
2.1.1	High- and Low-Thermal Preservation Techniques	63
2.1.2	Novel Nonthermal Processing and Preservation Techniques	68
2.2	Biochemical Changes During Processing	85
2.2.1	Postmortem Biochemical Changes	86
2.3	Value Addition	91
2.3.1	Mince-Based Products	91
2.3.2	Allied seafood delicacies	94
2.3.3	Miscellaneous	95
2.4	Determination of Functional Quality of Processed Food	98
2.4.1	Determination of Color and Odor	98
2.4.2	Determination of Salt Content	99
2.4.3	Determination of Water Activity	100
2.4.4	Evaluation of Sensory Parameters	103
2.4.5	Evaluation of Texture	106
2.4.6	Determination of Electrical Properties/Redox Potential	109
2.4.7	Folding Test for Surimi	109
2.4.8	Specific Gravity of Fish Oils	110
2.4.9	Analysis of Starch in Breaded and Battered Products	111
2.5	Determination of Freshness Indices of Processed Food	112
2.5.1	Assessment of Protein Degradation	112
2.5.2	Assessment of Lipid Oxidation	117
2.5.3	Assessment of Carbohydrate Catabolites	121
2.5.4	Assessment of Nonprotein Nitrogen (NPN)	122
2.5.5	Assessment of Nucleotides and Nucleotide Catabolite	123
2.6	Miscellaneous	125
2.6.1	Determination of Na ⁺ /K ⁺	125
2.6.2	Determination of Formaldehyde	125
2.6.3	Determination of Ammonia	126
2.7	Microbiological Parameters	127
2.7.1	Evaluation of Total Plate Count	127
2.7.2	Isolation, Identification, and Characterization of Seafood Bacteria	127
2.7.3	Detection and Identification of Fecal Streptococci	129
2.7.4	Detection and Identification of <i>Salmonella typhimurium</i>	129
2.7.5	Detection and Identification of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i>	129
2.7.6	Detection and Identification of <i>E. coli</i>	130

2.1 Processing of Various Fish and Seafood

Even though the nutritive value and the unique taste of seafood (fish, shell fish, mollusks, and echinoderms) have gained immense popularity in all continents, the susceptibility of these to postmortem spoilage and rapid deterioration, and hence, the shortened shelf life, is of great concern. Species, handling, and storage conditions affect the nutritional and microbial qualities of seafood. Further, two most important concerns with respect to marketing and distribution of seafood are their high perishability and poor hygienic quality. To overcome these issues, various preservation methods are being adopted where time-temperature association is the key determinant (Boziaris 2013; Mohan et al. 2008; Borda et al. 2018). Feeding habits, primary microbiological load, season, geographical origin, and handling conditions influence the shelf life of seafood. Therefore, it is decisive to have a science-based comprehension of the growth and activity of spoilage microorganisms in seafood, in order to reduce the losses and preserve the food. Hence, the chief aim of fish preservation is to delay, reduce, or inhibit the enzymatic, chemical, and microbial spoilage by managing the storage temperature, water activity, and pH or by using chemical preservatives. The preservation of seafood can be attained by conventional methods (thermal) such as chilling, drying, smoking, refrigeration or freezing, and canning or by employing novel techniques (nonthermal) such as pulsed light, high hydrostatic pressure, pulsed electric fields, ultraviolet light, high-intensity ultrasound, oscillating magnetic fields, ionizing radiation, etc. Currently, consumers are in continuous demand for minimally processed food with extended shelf life and safety assurance.

2.1.1 High- and Low-Thermal Preservation Techniques

High- and low-thermal preservation can be done either for short and long duration.

Saleena Mathew · Maya Raman
Manjusha Kalarikkathara Parameswaran
Dhanya Pulikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

 Springer

Saleena Mathew · Maya Raman · Manjusha Kalarikkathara Parameswaran · Dhanya Puhkkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

This novel and informative book discusses the various aspects of seafood quality. The book is divided into 7 broad sections, each tackling a different aspect. The first section covers the general aspects relevant to the nutritional quality of the fish and the various extraction protocols for macro- / micro-nutrients. The second section provides insights into handling and the principles of thermal and non-thermal processing techniques for commercially important fishery products. The quality standards and safety concerns in the seafood industry and consumption are discussed in this section. The freshness indices of the processed products including biochemical, microbiological and toxicological characteristics are also included. The third section discusses the physico-chemical characteristics and quality parameters of potable water/ ice. The fourth section includes the quality assessment of various toxicants related to seafood products. The fifth section deals with the specific aspects such as principle, instrument and procedures of conventional and novel analytical instruments relevant to the seafood industry. The sixth section deals with the seafood waste management including solid and liquid seafood wastes. Presently, there is a great awareness regarding environmental sustainable processing/ preservation techniques. The final chapter discusses the bioactive compounds from under-utilized marine sources showing pharmaceutical/ nutraceutical applications.

ISBN 978-981-32-9573-5



► springer.com



Water is the most important component in fish processing industry and in ice-making. The contamination of water used in seafood industry (sources) will increase the pathogen load in fish posing a serious health hazard to the consumers. Hence, it is urgent to meet the basic requirements of the water/ice quality and should meet the drinking water standards. The World Health Organization (WHO) has issued guidelines for drinking water quality and has identified that very stringent standards cannot be used universally; and hence, a range of guideline values for more than 60 parameters were elaborated. The water/ice quality parameters have to be qualitatively and quantitatively analyzed and monitored regularly for each source of water supply such as at the point of collection (harbor) to the final use (until packaging). The qualified technicians are to perform the analysis. The water sampling and analysis should be certified by ISO-certified laboratories. The different sources of water used in seafood industry could be bore wells, municipal mains, water tanks, reservoirs, and harbor basin water. The contamination of bore wells and municipal mains may occur from corroded casings, sewage, etc. The bore well water needs to be tested every month. Similarly, the tanks and reservoirs need to be checked regularly for the residual chlorine levels. Periodic scrubbing may assist in preventing deposition. The municipal mains, water tanks, and reservoirs have to be tested half yearly. Harbor basin water has to be tested yearly, more accurately at the peak of the dry season and the wet season, when the chances of contamination are high.

The testing procedures include:

- (a) Physical tests
- (b) Chemical tests
- (c) Bacteriological tests

2.7.7	Detection and Identification of <i>Staphylococcus aureus</i>	131
2.7.8	Detection and Identification of <i>Listeria monocytogenes</i>	131
2.7.9	Detection and Identification of <i>Klebsiella</i>	132
2.7.10	Detection and Identification of <i>Shigella</i>	132
2.7.11	Detection and Identification of <i>Campylobacter</i>	135
2.7.12	Determination of Total Fungi Count	138
2.8	Trends in Quality Control and Assurance in Seafood Processing Industry	138
2.8.1	HACCP, ISO, and FAO	138
2.8.2	Seafood Hazards and Prophylaxis	142
	References	143
3	Water/Ice: Assessment of Quality	145
3.1	Physical and Chemical Characteristics of Water	146
3.1.1	Determination of pH	146
3.1.2	Determination of Temperature	146
3.1.3	Determination of Color	147
3.1.4	Determination of Turbidity	148
3.1.5	Determination of Odor and Taste	149
3.1.6	Determination of Alkalinity	150
3.1.7	Determination of Specific Conductance/Conductivity	151
3.1.8	Determination of Salinity	153
3.1.9	Determination of Total Dissolved Solids	154
3.1.10	Determination of Total Suspended Solids	155
3.1.11	Determination of Hardness	156
3.1.12	Determination of Chloride, Fluoride, Sulfate, Nitrite, and Phosphate	158
3.2	Toxic Components	165
3.2.1	Determination of Copper, Chromium, Cadmium, Zinc, Lead, Mercury, Iron, and Manganese	165
3.2.2	Determination of Pesticides	168
3.2.3	Determination of Phenols	174
3.2.4	Determination of Oil/Grease	176
3.3	Organic Nutrient and Demand	177
3.3.1	Determination of Biological Oxygen Demand	177
3.3.2	Determination of Chemical Oxygen Demand	179
3.3.3	Determination of Nitrates	180
3.4	Microbiological Parameters	181
3.4.1	Determination of Most Probable Number (MPN)	181
3.4.2	Determination of Total Coliforms in Water (Five-Tube MPN Method)	181
3.4.3	Determination of Standard Plate Count	182
3.4.4	Determination of Total Coliforms/Fecal Coliforms	182

Saleena Mathew · Maya Raman
Manjusha Kalarikkathara Parameswaran
Dhanya Pulikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

 Springer

Saleena Mathew · Maya Raman · Manjusha Kalarikkathara Parameswaran · Dhanya Puhikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

This novel and informative book discusses the various aspects of seafood quality. The book is divided into 7 broad sections, each tackling a different aspect. The first section covers the general aspects relevant to the nutritional quality of the fish and the various extraction protocols for macro- / micro-nutrients. The second section provides insights into handling and the principles of thermal and non-thermal processing techniques for commercially important fishery products. The quality standards and safety concerns in the seafood industry and consumption are discussed in this section. The freshness indices of the processed products including biochemical, microbiological and toxicological characteristics are also included. The third section discusses the physico-chemical characteristics and quality parameters of potable water/ ice. The fourth section includes the quality assessment of various toxicants related to seafood products. The fifth section deals with the specific aspects such as principle, instrument and procedures of conventional and novel analytical instruments relevant to the seafood industry. The sixth section deals with the seafood waste management including solid and liquid seafood wastes. Presently, there is a great awareness regarding environmental sustainable processing/ preservation techniques. The final chapter discusses the bioactive compounds from under-utilized marine sources showing pharmaceutical/ nutraceutical applications.

ISBN 978-981-32-9573-5



► springer.com



3.4.5	Determination of Biofouling and Biofilm Formation	182
3.4.6	Determination of Pathogens	183
3.5	Biological Parameters	183
3.5.1	Determination of Phytoplankton and Zooplankton	183
3.6	Radioactive Elements	188
3.6.1	Alpha Emitter and Beta/Photon Emitter	188
Appendices		191
Appendix 3.1	Drinking Water Quality Standard	191
Appendix 3.2	– Drinking Water Quality Standard	193
Appendix 3.3	Drinking Water and Human Health Quality Criteria	194
Appendix 3.4	EPA Standards for Toxin Metals, Pesticides, and Radioactive Components in Drinking Water	195
Appendix 3.5	Water Quality (Indian Standard Drinking Water Specification (BIS-10500: 1991))	197
Appendix 3.6	Different Types of Phytoplankton and Zooplanktons)	199
References		203
4	Toxicants: Assessment of Quality	203
4.1	Analysis of Food Additives	203
4.1.1	Synthetic Food Additives and Adulterants	203
4.1.2	Analysis of Antibiotics	214
4.1.3	Analysis of Pesticide	215
4.1.4	Analysis of Heavy Metals	217
4.1.5	Analysis of Metallothioneins	224
4.2	Analysis of Biotoxins	225
4.2.1	Analysis of Aflatoxin	225
4.2.2	Finfish Toxins	226
4.2.3	Shellfish Toxins	236
4.2.4	Other Toxins	242
4.3	Analysis of Filth	249
4.3.1	Examination for Insects and Rodent Contamination	249
4.3.2	Filth Recovery Methods	252
4.4	Emerging Pathogens	256
4.4.1	Campylobacter	256
4.4.2	<i>E. coli</i> O157:H7	256
4.4.3	Salmonella	257
4.4.4	Identifying Reservoirs	257
4.4.5	Detection of Emerging Pathogens	258
References		259
5	Techniques Used in Fish and Fishery Products Analysis	263
5.1	Instruments Used for Physiochemical Analysis	263
5.1.1	pH Meter	263
5.1.2	Moisture Meter	266

4.1 Analysis of Food Additives

Food is inevitable to sustain life, and as a result, contaminated food becomes a very common source of toxicant exposure to humans. Several naturally occurring and synthetic contaminants find their way into food. More than 2500 chemical substances are added to foods to modify it. They are grouped under the regulatory term "food additives" and are defined as chemical substances deliberately added to foods in known quantities for purposes of assisting in the processing of foods and preservation of foods or in improving the flavor, texture, or appearance of foods. Food additives can be used directly or indirectly. Direct additives are those that are intentionally added to foods for a specific purpose, while indirect additives are those to which the food is exposed during processing, packaging, or storing. If a substance is added to a food for a specific purpose, it is referred to as a direct additive. Food additives and preservatives are used in today's food supply to prevent foodborne illness, enable the transportation of food to areas that otherwise wouldn't be possible, and for the efficient manufacture of products to consistently meet the established quality standards from batch to batch. The US Food and Drug Administration evaluates the safety of food additives and determines how they may be used in the food supply. If an additive is approved, the FDA issues regulations that may include the types of foods in which it can be used, the maximum amounts to be used, and how it should be identified on food labels. This section looks into the analysis of some of the commonly used intentional and unintentional additives.

4.1.1 Synthetic Food Additives and Adulterants

Synthetic food additives can be added intentionally to food to perform certain technological purposes which consumers often take for granted. They are needed to ensure that processed food remains safe and in good condition throughout its journey from factories or industrial kitchens, during transportation to warehouses and

Saleena Mathew · Maya Raman
Manjusha Kalarikkathara Parameswaran
Dhanya Pulikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

 Springer

Saleena Mathew · Maya Raman · Manjusha Kalarikkathara Parameswaran · Dhanya Puhikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

This novel and informative book discusses the various aspects of seafood quality. The book is divided into 7 broad sections, each tackling a different aspect. The first section covers the general aspects relevant to the nutritional quality of the fish and the various extraction protocols for macro- / micro-nutrients. The second section provides insights into handling and the principles of thermal and non-thermal processing techniques for commercially important fishery products. The quality standards and safety concerns in the seafood industry and consumption are discussed in this section. The freshness indices of the processed products including biochemical, microbiological and toxicological characteristics are also included. The third section discusses the physico-chemical characteristics and quality parameters of potable water/ ice. The fourth section includes the quality assessment of various toxicants related to seafood products. The fifth section deals with the specific aspects such as principle, instrument and procedures of conventional and novel analytical instruments relevant to the seafood industry. The sixth section deals with the seafood waste management including solid and liquid seafood wastes. Presently, there is a great awareness regarding environmental sustainable processing/ preservation techniques. The final chapter discusses the bioactive compounds from under-utilized marine sources showing pharmaceutical/ nutraceutical applications.

ISBN 978-981-32-9573-5



► springer.com



5.1.3	Hygrometer	267
5.1.4	Torry Meter	269
5.1.5	Microkjeldhal Apparatus	270
5.1.6	Soxhlet Apparatus	271
5.1.7	Muffle Furnace	272
5.2	Chromatography	275
5.2.1	HPLC (High-Performance Liquid Chromatography)	275
5.2.2	Gas Chromatography (GC)	281
5.2.3	Conventional Chromatographic Methods	288
5.2.4	High-Performance Thin-Layer Chromatography (HPTLC)	291
5.3	Electrophoresis	292
5.3.1	Polyacrylamide Gel Electrophoresis [PAGE]	295
5.3.2	Agarose Gel Electrophoresis	299
5.3.3	Isoelectric Focusing (IEF)	302
5.4	Nephelometry, Photometry, and Spectrometry	303
5.4.1	Nephelometry and Turbidimetry	303
5.4.2	UV-VIS Spectrophotometer	304
5.4.3	Atomic Spectroscopy	306
5.4.4	FTIR Spectroscopy	309
5.4.5	NMR Spectroscopy	311
5.4.6	Mass Spectrometry	313
5.5	Microscopy	315
5.5.1	Light Microscope	316
5.5.2	Electron Microscope	318
5.6	Refractometer	320
5.6.1	Refractive Index	320
5.6.2	Brix Scale and Common Brix %	323
5.6.3	Factors Influencing Refractive Index	323
5.6.4	Types of Refractometers	323
5.7	Viscometers	324
5.7.1	Orifice Viscometers	326
5.7.2	Capillary Viscometers	326
5.7.3	Falling Piston Viscometers	327
5.7.4	Rotational Viscometers	328
5.7.5	Falling Ball/Rolling Ball Viscometers	328
5.7.6	Vibrational Viscometers	329
5.8	Rheometer	329
5.8.1	Rotational Rheometers	330
5.8.2	Eccentric Viscoelastic Rheometry	331
5.9	Texture Analyzer	331
5.9.1	Instrumentation	332
5.10	Differential Scanning Calorimeter	333
5.10.1	DSC Instrumentation	333
5.11	CHNS-O Elemental Analyzer	334

Techniques Used in Fish and Fishery Products Analysis

5.1 Instruments Used for Physiochemical Analysis

5.1.1 pH Meter

The pH meter is an electronic device for measuring the pH (acidity or alkalinity) of a sample. It was only in 1909 that the concept of pH (hydrogen ion concentration) was introduced by Soren Peter Lauritz Sørensen and an electrode for pH measurements was realized in the year 1922 by W.S. Hughes (Nikhil et al. 2016).

5.1.1.1 pH Meter Probe

The probe is a key part of the pH meter. It is a rodlike structure usually made up of glass. At the bottom of the probe, there is a bulb, which is sensitive part of a probe that contains the sensor.

The pH electrode is typically an ion-selective electrode (ISE) that responds to one specific ion in solution, the hydrogen ion. The most common forms of pH electrode are the glass electrode (Fig. 5.1a) and the combination electrode (Fig. 5.1b) which contains an inbuilt calomel reference electrode. Typical glass pH electrodes are made of thin glass porous membrane sealed at the end (the glass bubble) of a hard glass tube containing 0.1 M hydrochloric acid, into which is immersed a silver chloride-coated silver wire. The pH of the internal solution varies from 1.0 (by using 0.1 M HCl) to 7.0 (different buffers are used by different manufacturers). This silver/silver chloride electrode acts as an internal reference that generates a constant potential. The porous membrane is typically 0.1 mm thick, the outer and inner 10 nm consist of a hydrated gel layer that contains exchange-binding sites for hydrogen or sodium ions. On the inside of the membrane, the ion exchange sites are predominantly occupied by hydrogen ions from the hydrochloric acid, while on the outside, the ion exchange sites are occupied by sodium and hydrogen ions. The bulk of the membrane is a dry silicate layer in which all ion exchange sites are occupied by sodium ions. Most of the coordinated ions in both hydrated layers are free to diffuse into the surrounding solution, while hydrogen ions in the test solution can

Saleena Mathew · Maya Raman
Manjusha Kalarikkathara Parameswaran
Dhanya Pulikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

 Springer

Saleena Mathew · Maya Raman · Manjusha Kalarikkathara Parameswaran · Dhanya Puhikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

This novel and informative book discusses the various aspects of seafood quality. The book is divided into 7 broad sections, each tackling a different aspect. The first section covers the general aspects relevant to the nutritional quality of the fish and the various extraction protocols for macro- / micro-nutrients. The second section provides insights into handling and the principles of thermal and non-thermal processing techniques for commercially important fishery products. The quality standards and safety concerns in the seafood industry and consumption are discussed in this section. The freshness indices of the processed products including biochemical, microbiological and toxicological characteristics are also included. The third section discusses the physico-chemical characteristics and quality parameters of potable water/ ice. The fourth section includes the quality assessment of various toxicants related to seafood products. The fifth section deals with the specific aspects such as principle, instrument and procedures of conventional and novel analytical instruments relevant to the seafood industry. The sixth section deals with the seafood waste management including solid and liquid seafood wastes. Presently, there is a great awareness regarding environmental sustainable processing/ preservation techniques. The final chapter discusses the bioactive compounds from under-utilized marine sources showing pharmaceutical/ nutraceutical applications.

ISBN 978-981-32-9573-5



► springer.com



	Contents
x	
5.11.1	Instrumentation 335
5.11.2	Principle of an Elemental Analyzer 335
5.12	X-Ray Diffraction 336
5.12.1	Bragg's Law 337
5.12.2	General Principle and Instrumentation 337
5.12.3	Powder XRD 338
5.13	Enzyme-Linked Immunosorbent Assay (ELISA) 339
5.13.1	Types of ELISA 340
5.14	Polymerase Chain Reaction (PCR) 342
5.14.1	Conventional PCR Technique 343
5.14.2	PCR Amplification Mix 344
5.14.3	Stages of PCR 344
5.15	Electrical Conductivity Meter 345
5.15.1	Instrumentation 346
5.15.2	Factors Affecting Electrical Conductivity 347
5.16	Geiger-Muller Counter 347
5.16.1	Principle of a GM Counter 347
5.16.2	Geiger-Muller Tube 348
5.16.3	Geiger-Muller Detectors 350
5.16.4	Factors Affecting GM Operation 352
5.16.5	Advantages and Disadvantages of a Geiger Counter 353
5.17	Biosensors 354
	References 357
6	Waste Management in Seafood Industry 361
6.1	Seafood Waste Disposal 361
6.1.1	Utilization of Solid Seafood Wastes 362
6.2	Wastewater Characterization 363
6.3	Wastewater Treatment and Monitoring 365
6.3.1	Hydrolysis 365
6.3.2	Biodegradation and Bioremediation 366
6.3.3	Filtration/Screening 371
6.3.4	Miscellaneous 372
	References 377
7	Bioactive Compounds from Marine Sources 379
7.1	Marine Biopolymers and Derivatives 379
7.1.1	Collagen and Gelatin 379
7.1.2	Chitin and Chitosan 386
7.2	Proteoglycans and Glycosaminoglycans 387
7.2.1	Proteoglycans 387
7.2.2	Glycosaminoglycans 388
7.3	Antioxidant Pigments and Polyphenols 391
7.3.1	Antioxidant Pigments 391
7.3.2	Antioxidant Polyphenols 393
7.4	Seaweed Polysaccharides 395
7.4.1	Agar, Carrageenan, and Alginate 396

Waste management is a huge problem in all the realms of the world. All industries contribute to the mass of biodegradable and non-biodegradable waste, and seafood industry is no exception in this matter. Till the last decade, seafood waste found their way directly into the sewers and nearby water bodies. But the waste production in those days was not in the same scale as of today. Modern seafood industries had scaled up their production and produce much larger amounts of waste, most of which is not degradable at the rate of deposition. Hence, we must look for better technologies of waste management.

The solid waste from the industry including shells, stomach parts, and bycatches is now in huge demand by many industries. The liquid waste is always a headache with no takers. The industry management must find their own measures for getting rid of it. Most of them depend on reverse osmosis, aerobic, and anaerobic filters for purifying the wastewater.

6.1 Seafood Waste Disposal

Fish waste is often classified as a certified waste with high disposal cost because of high organic content (Knuckey et al. 2004). Most of the seafood processing units have effluent treatment plants (ETP) for discharging liquid waste effluents into the backwaters. In Cochin, India, alone, seafood processing units (87.5%) are depending on private contract for disposing solid waste. Solid waste is utilized for biogas production by 12.5% units. Many institutions are giving awareness programs about by-product valorization possibilities. The high nutritional quality and the possibility of by-product valorization from seafood waste have resulted in a share of the waste generated to be utilized for developing by-products. Shrimp shell waste gets a better price in the market (US dollar 1.098–1.32 per box) than finfish and cephalopod (0.77–0.88). They are mainly used for by-product development, and the major portion for by-product is contributed by cephalopod (19.4%) followed by shrimp shell (15.23%) and finfish (2.2%) waste (Sasidharan and Mathew 2011).

361

Saleena Mathew · Maya Raman
Manjusha Kalarikkathara Parameswaran
Dhanya Pulikkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

 Springer

Saleena Mathew · Maya Raman · Manjusha Kalarikkathara Parameswaran · Dhanya Puhkkottil Rajan

Fish and Fishery Products Analysis

A Theoretical and Practical Perspective

This novel and informative book discusses the various aspects of seafood quality. The book is divided into 7 broad sections, each tackling a different aspect. The first section covers the general aspects relevant to the nutritional quality of the fish and the various extraction protocols for macro- / micro-nutrients. The second section provides insights into handling and the principles of thermal and non-thermal processing techniques for commercially important fishery products. The quality standards and safety concerns in the seafood industry and consumption are discussed in this section. The freshness indices of the processed products including biochemical, microbiological and toxicological characteristics are also included. The third section discusses the physico-chemical characteristics and quality parameters of potable water/ ice. The fourth section includes the quality assessment of various toxicants related to seafood products. The fifth section deals with the specific aspects such as principle, instrument and procedures of conventional and novel analytical instruments relevant to the seafood industry. The sixth section deals with the seafood waste management including solid and liquid seafood wastes. Presently, there is a great awareness regarding environmental sustainable processing/ preservation techniques. The final chapter discusses the bioactive compounds from under-utilized marine sources showing pharmaceutical/ nutraceutical applications.

ISBN 978-981-32-9573-5



► springer.com



5.11.1	Instrumentation	335
5.11.2	Principle of an Elemental Analyzer	335
5.12	X-Ray Diffraction	336
5.12.1	Bragg's Law	337
5.12.2	General Principle and Instrumentation	337
5.12.3	Powder XRD	338
5.13	Enzyme-Linked Immunosorbent Assay (ELISA)	339
5.13.1	Types of ELISA	340
5.14	Polymerase Chain Reaction (PCR)	342
5.14.1	Conventional PCR Technique	343
5.14.2	PCR Amplification Mix	344
5.14.3	Stages of PCR	344
5.15	Electrical Conductivity Meter	345
5.15.1	Instrumentation	346
5.15.2	Factors Affecting Electrical Conductivity	347
5.16	Geiger-Muller Counter	347
5.16.1	Principle of a GM Counter	347
5.16.2	Geiger-Muller Tube	348
5.16.3	Geiger-Muller Detectors	350
5.16.4	Factors Affecting GM Operation	352
5.16.5	Advantages and Disadvantages of a Geiger Counter	353
5.17	Biosensors	354
	References	357
6	Waste Management in Seafood Industry	361
6.1	Seafood Waste Disposal	361
6.1.1	Utilization of Solid Seafood Wastes	362
6.2	Wastewater Characterization	363
6.3	Wastewater Treatment and Monitoring	365
6.3.1	Hydrolysis	365
6.3.2	Biodegradation and Bioremediation	366
6.3.3	Filtration/Screening	371
6.3.4	Miscellaneous	372
	References	377
7	Bioactive Compounds from Marine Sources	379
7.1	Marine Biopolymers and Derivatives	379
7.1.1	Collagen and Gelatin	379
7.1.2	Chitin and Chitosan	386
7.2	Proteoglycans and Glycosaminoglycans	387
7.2.1	Proteoglycans	387
7.2.2	Glycosaminoglycans	388
7.3	Antioxidant Pigments and Polyphenols	391
7.3.1	Antioxidant Pigments	391
7.3.2	Antioxidant Polyphenols	393
7.4	Seaweed Polysaccharides	395
7.4.1	Agar, Carrageenan, and Alginate	396

7.4.2	Fucoidan, Laminarin, and Ulvan	401
7.4.3	Algal Polysaccharide Extraction and Processing	404
7.5	Antimicrobial Peptides	405
7.5.1	Antimicrobial Peptides (AMPs) in Marine Invertebrates	405
7.5.2	Antimicrobial Peptides (AMPs) in Marine and Freshwater Fishes	406
7.6	Nutraceutical Peptides	411
7.6.1	Antioxidant Peptides	412
7.6.2	Antitumor/Cytotoxic Peptides	414
7.6.3	Antihypertensive Peptides	414
7.6.4	Cardiovascular Protective Peptides	415
7.6.5	Neuropeptides and Neuroprotective Peptides	415
7.6.6	Other Bioactive Roles of Marine Peptides	416
7.7	Marine Bioceramics	416
7.7.1	Hydroxyapatite	417
7.7.2	Biosilica	420
	Appendix	422
	References	425

Over the past several decades, scientists have given increasing attention to marine organisms and the secondary metabolites they produce. Investigations on marine natural products have focused on areas like marine nutraceuticals, biopolymers, biofilms, CNS-membrane active toxins and ion channel effectors, antifouling, anti-cancer and antiviral agents, tumor promoters, anti-inflammatory agents, as well as metabolites that control microfilament-mediated processes. The marine natural products field is encouraging a multidisciplinary approach between biologists, chemists, and pharmacologists. It is also important to note that the number of compounds reported annually is increasing steadily, indicating that marine organisms will continue to be sufficient sources of natural bioactive substances.

7.1 Marine Biopolymers and Derivatives

Fish processing generates solid wastes (skin, scales, and bones) that can be as high as 80% of the original raw material and are excellent sources of high value products. The utilization of fish wastes helps to eliminate harmful environmental aspects of pollution and improve quality in fish processing. An important waste reduction strategy for the industry is the recovery of marketable by-products from fish wastes. The two most important marine biopolymers collagen as well as the polysaccharide polymer, chitin, and their derivatives gelatin and chitosan, respectively, are a promising entity in this regard.

7.1.1 Collagen and Gelatin

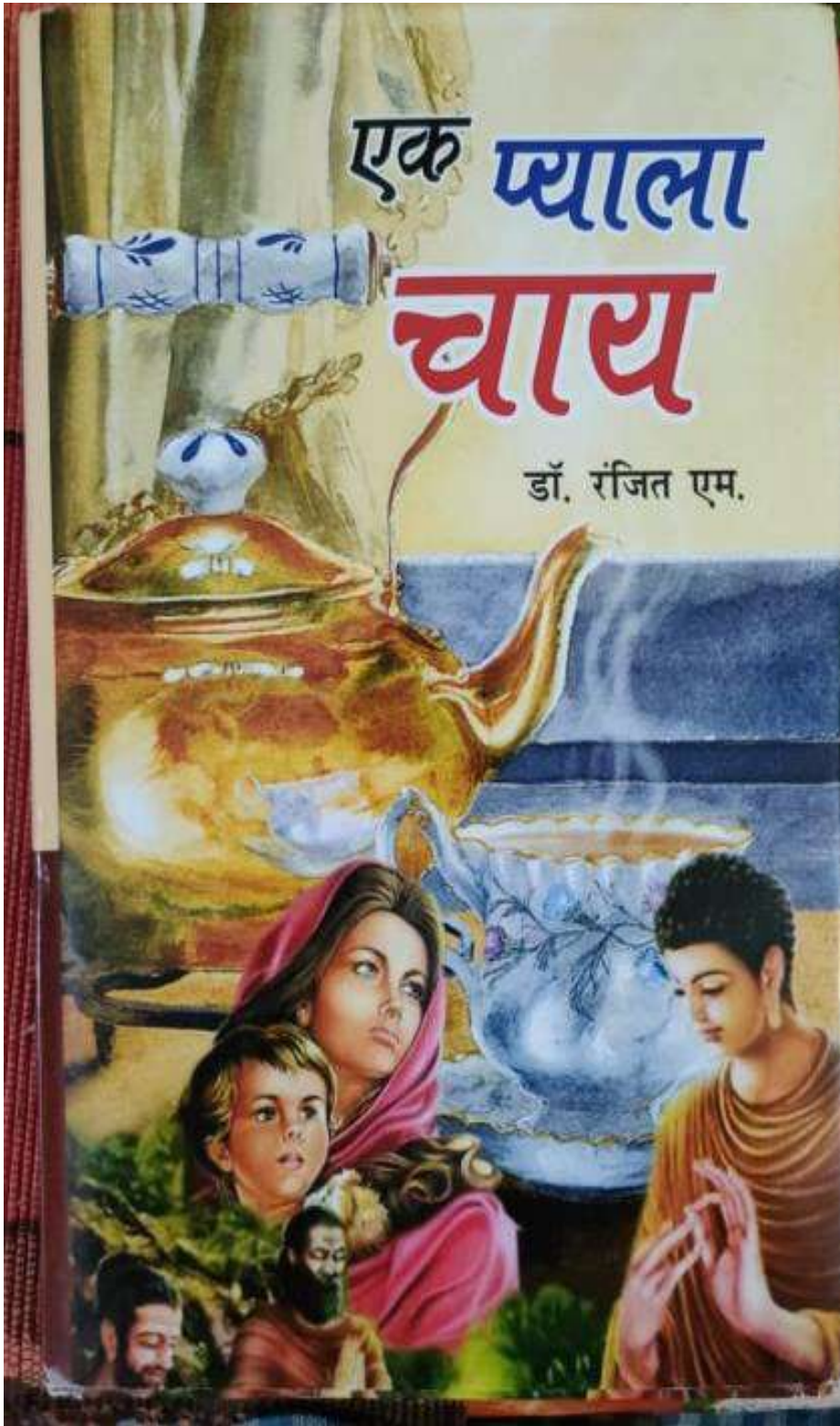
Collagen is the most abundant and ubiquitous protein in the body of almost all metazoan organisms, as a major component of extracellular matrix (Balian and Bowes 1977) and renowned as the most abundant protein in mammals, making up from 25% to 35% of the whole-body protein. Collagen in the form of elongated

379

एक प्याला

चाय

डॉ. रंजित एम.



एक प्याला चाय

अनुवाद व संकलन
डॉ. रंजित एम.

जवाहर पुस्तकालय
हिन्दी पुस्तक प्रकाशक एवं वितरक
मथुरा (उ. प्र.) 281001

ISBN : 978-81-8111-116-7

© : सचाधिकार सुरक्षित

प्रकाशक : गोविन्द पक्षीरी

जवाहर पुस्तकालय

हिन्दी पुस्तक प्रकाशक एण्ड वितरक

सदन बाजार, मथुरा-281001 (उ. प्र.)

दूरभाष : 09897000951

ई-मेल : jawahar.pustakalaya@gmail.com

मूल्य : ₹ 150.00

प्रथम संस्करण : 2019

आवरण : गोविन्द पक्षीरी

शब्द-संयोजन : आतु कम्प्यूटर्स, आधरस, दिल्ली-110032

फोन नं. 011-33088569

मुद्रक : जय भारत प्रेस, संदीप आधरस, दिल्ली-110032



डॉ. रंजित एम.

- जन्म** : तलशशेरी, कण्णूर (जिला), केरल
- पिता** : सी.एम. माधवन
- माता** : के.के. पद्मजा
- पत्नी** : डॉ. सूर्या बोस
- शिक्षा** : एम.ए. (हिन्दी), एम.फिल (हिन्दी)
(कालिकट वि.वि.); बी.एड (कण्णूर
वि.वि.); पी.जी. डिप्लोमा इन ट्रांसलेशन
(कालिकट वि.वि.); डिप्लोमा इन हिन्दी
(केन्द्रीय हिन्दी निदेशालय, नई दिल्ली);
पी-एच.डी. (कालिकट वि.वि.)
- प्रकाशन** : 1. अज्ञेय के तारसप्तक
2. हिन्दी कथा साहित्य में नारी
3. हिन्दी सूफी काव्यों में प्रकृति-चित्रण
4. प्रतिष्ठित पत्र-पत्रिकाओं में कविता,
कहानी, लेख, यात्रावृत्त।
- सम्प्रति** : अध्यक्ष, हिन्दी विभाग, एम.ई.एस.
अस्माबी कॉलेज, कोडुङ्गल्लूर, त्रिशूर
(जिला), केरल
- संपर्क** : ठषस (घर) तृक्करिप्पूर पी.ओ.,
कासरगोड जिला-671310 (केरल)
मोबाईल : 09387441300

الخواطر

د / عبد العزيز م

B.A/B.Sc. Third Semester Common course Text Book

Al-Khawathir



(Arabic)

By. Dr. Abdul Azeez. M



edumart

Marketed by : EDUMART, Tirurangudi Town, Manoor Road, Calicut - 4
Tel : +91 9648925621, +91 9548000020 Email: edumart@edumartindia.com



Price : 68/-

Calicut - Malappuram - Thrissure - Kannur - Manjeri - Perinthalmanna - Thalappera - Tirurangudi - Thondayad

DR. BASHIER P. T.
Assistant Professor, Department of Arabic
MES Amalji College, P. Vempalil
Kodungalur, Thrissur-680671

بداية الخواطر

Al-Khawathir

(Arabic)

BA/BSc Third Semester Common Course Text Book

by: **Dr. Abdul Azeez. M**

EDITORIAL BOARD

Dr. Saidalavi. U

Dr. Muhammed Haneefa

Dr. T. Abdul Majeed

Dr. Jabir Amani

Dr. Safiya

Mrs. Sakkeena. M.K.

Mr. Jaleel. K

و. نورا مكيه ا

first edition: June 2020

printed & published by

ashrafi book centre &

tirurangadi printers

tirurangadi, Tel: 0494 2460395

distributed by:

edumart

calicut, malappuram

trivandrum, thrissur

thalappara, manjeri

tirurangadi book stall

Century complex, calicut, tel: 0495 296002

masjid bazar, calicut, tel: 0495 2721769

korambayil arcade, manjeri, tel: 0483 2762607

BA/BSc Third Semester
Common Course Text Book

© copy rights reserved

المحتويات

- مقدمة..... ٥
- المقابلة..... ٩
- في المصرف..... ١٥
- "فمن رغب عن سنتي فليس مني"..... ٢١
- عشرُ وصايا للنجاح في الحياة العمليَّة..... ٢٥
- مع العلماء..... ٣٩
- حبّ الأم..... ٤٦
- شرح القاضي..... ٥٧
- شمس النهار..... ٦٨
- طلب للوظيفة..... ٨٥
- استعلام عن كتاب..... ٨٧
- طلب للكتب..... ٨٨
- فاتورة..... ٨٩
- MODEL QUESTION PAPER..... ٩١

1. From Quran

Qarun was one of the people of Moses. He believed in Moses, read the Torah and improved it. God gave him a lot of money to test him. But he was a hypocrite and refused to pay zakat. He did not end with this, but rather incited the Children of Israel to disbelief and disobedience and accused Moses of adultery. He called a prostitute and gave her a lot of money to slander Moses. But it was announced that she had come on the orders of Qarun, and Moses had not committed adultery with her. Moses became angry and called upon God, his Lord, to punish him, so God caused the earth to swallow him and his money

2. Hadiths

1. An action is not valid except with intention, and a person receives benefits and harm from his action according to his intention

2. Ihsan is for the servant to obey his Lord sincerely, submissively, and humbly as if he were seeing Him. Because God is aware of his secret and his revelation

3. The sweetness of honey

It is said that a man was walking in the jungles of Africa, where the nature is picturesque and where tall trees grow, due to its location on the equator. He enjoyed the view of the trees blocking the sun's rays due to their density, enjoyed the singing of birds, and inhaled the fragrance of the flowers that produced pleasant scents.....

4. Abu wada's marriage

Abu Wada'ah said: I used to frequent the mosque of the Messenger of God in pursuit of knowledge. I used to go to Saeed bin Al-Musayyab's group, and people would crowd there with horseshoes... Then I was absent from the Sheikh's group for days, so he checked on me and thought that I was sick, or had a symptom... So he asked those around him about me, but he did not find any news from any of them.

5. Macbeth- William Shakespeare

First scene

6. Motherland

But it is time to forget people's hatred. He builds a structure on the basis of brotherhood. But it is time for the disappointment to be cast aside. You gain honor by supporting nations....

7. Why did you complain?

How often do you complain and say: You are destitute? The earth is yours, the sky and the stars are yours, and the fields, their flowers, and their fragrance are yours.

8. The art of speech

Man, as they say, is a talking animal. Speech is not to come out and describe speech, but rather to know how to speak, and perhaps a word enters Paradise, and a word enters Hell, and a word is saved from killing, and a word pushes its owner to killing.....

9. Happiness makers

Chinese legend tells us that an old man wanted to know the difference between happy people and unhappy people, so he went and asked one of the wise men, saying: Will you tell me what is the difference between happy people and unhappy people? She led the sage to a large palace. As soon as he went down to the hall, he saw many people with tables full of delicious food spread out in front of them. Their bodies were thin, and signs of hunger appeared on their features. Each of them was holding a huge spoon, four meters long, but they could not eat. So the sheikh said to the sage. : I knew these people: they are the unfortunate ones

10. The art of diction

Delivering is the art of addressing the audience and influencing them, and we have expressed it with the word art because it can be developed with effort, and actual practice becomes a skill. Addressing the audience is with spoken words and influencing them is with sincere emotions, feelings, and feelings. Art in this is accompanied by expressive looks, clear movements, influential suggestions, and auxiliary means

BIODIVERSITY FOR CLIMATE RESILIENCE

Editors

**Dr. S.C. Joshi IFS
Dr. V. Balakrishnan
Dr. Preetha N.**



KERALA STATE BIODIVERSITY BOARD

Biodiversity for Climate Resilience



[This book is a compilation of the papers presented as part of the 1st Kerala State Biodiversity Congress held during 2018]

Editors

Dr. S.C. Joshi IFS, Dr. V. Balakrishnan, Dr. Preetha N.

Editorial Board

Dr. K. Satheeshkumar
Sri. K.V. Govindan
Dr. K.T. Chandramohanam
Dr. T.S. Swapna
Sri. A.K. Dharni IFS

© Kerala State Biodiversity Board 2019

All rights reserved. No part of this book may be reproduced, stored in a retrieval system, transmitted in any form or by any means graphics, electronic, mechanical or otherwise, without the prior written permission of the publisher.

Published By

Member Secretary
Kerala State Biodiversity Board

ISBN: 978-81-934231-2-7

Citation:

Joshi, S.C., Balakrishnan, V. and Preetha, N. (Eds.), Biodiversity for Climate Resilience. Kerala State Biodiversity Board, Thiruvananthapuram.

CONTENTS

Best Practices of Biodiversity conservation

1. People's action for Rejuvenating lost waterbodies - The Aadi Pamba Varattar Story - 5
2. Jalasamrudhi – A Modal Initiative on Water Conservation -12
3. Best Practices in Biodiversity Conservation: A Case of M. S. Swaminathan Botanic Garden in Wayanad, Kerala -17
4. Yaongyimchen Community Bio-Diversity Conservation Area , Nagaland - 29
5. Hornbill Monitoring to Ecological Monitoring – One and Half decade of Indigenous community Based Conservation and Monitoring of Endangered Rainforest Species and Habitat in Western Ghats -35
6. Best Practices in Agrobiodiversity Conservation for Climate Resilience - 41
7. Best Practices on Biodiversity Conservation in Rice Ecosystems of Kerala - 46

Biodiversity Conservation Priorities

8. Agrobiodiversity Conservation: Participatory Management Systems in Small Millets - 53
9. Agro-biodiversity: Status, Trends and Conservation priority - 55
10. Vilwardi Cattle Breed: An Epitome of Biodiversity Conservation - 60
11. Protection and Conservation of Agro-Biodiversity- Strategies and Practices - 63
12. Circumventing the shortfalls in aquatic biodiversity documentation of Kerala and prioritizing research: The Way forward - 68
13. Ecorestoration and Biodiversity Conservation of Riparian Forests Along the Chalakkudy River, Southern Western Ghats -72
14. Impact of Flood on Threatened Plants in Kerala State; *Humboldtia Bourdillonii*- A case Study - 77
15. An action plan to mitigate the impacts of climate change on the native biota of Kerala (India): A proposal with special reference to butterflies 81
16. Prakriti Bus: A Mobile Exhibition for Raising Awareness on Biodiversity of Uttar Pradesh - 97
17. Connecting Biodiversity and Climate Resilience- Way foreword - 105

ECORESTORATION AND BIODIVERSITY CONSERVATION OF RIPARIAN FORESTS ALONG THE CHALAKKUDY RIVER, SOUTHERN WESTERN GHATS

Amitha Bachan K.H¹ and Pooja Suresh²

¹ Assi. Prof & Research Guide, Research Department of Botany MES Asmabi College & Founder member Western Ghats Hornbill Foundation

² PhD Fellow, Research Department of Botany MES Asmabi College

ABSTRACT

This article elucidates the studies and conservation intervention on the Riparian Forests and vegetation along the Chalakkudy River in the Anamalai part of Southern Western Ghats as a pioneering work in India. A methodology developed through the process has been used for understanding heterogenic community composition along bioclimatic gradient useful for classification and ecorestoration. The methodology has application in other forest and wetland ecosystems and is being applied in collaboration with various state agencies including Kerala State Landuse Board, Kerala Forest Department and Kerala State Biodiversity Board. The ecorestoration protocol prepared in detail for Chalakkudy River has been added to the working plan of the Forest Department in the Vazhachal Forest Division.

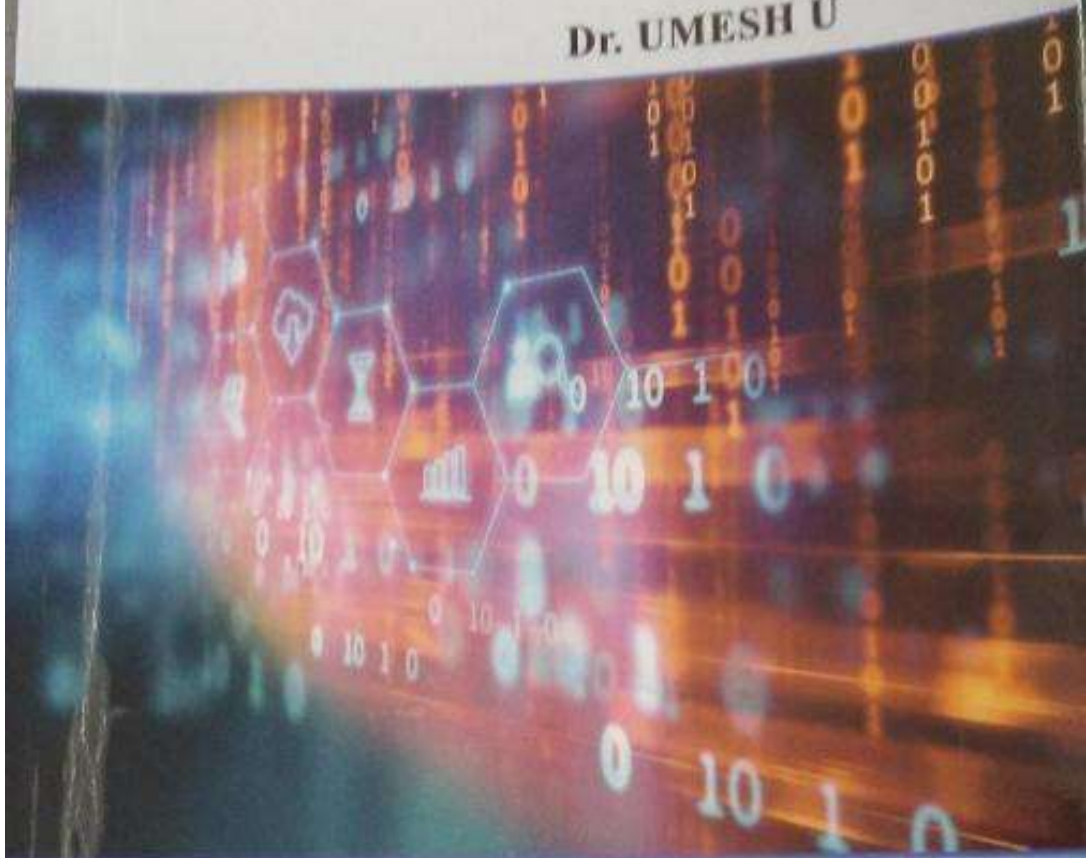
INTRODUCTION

Chalakkudy River is the fifth longest and most fish diverse river in Kerala (NBFGR, 2000). The river is originating from the Anamalai landscape unit of southern Western Ghats covering Nelliampathy, Parambikulam valley, Valparai- Malkkaparaiplatue, Sholayar valley and Vazhachal- Athirappilly forests. The rich fish diversity in the river is a reflection of availability of different bioclimatic regimes (Dry Deciduous, Moist Deciduous, Wet Evergreen, Evergreen, Dry Evergreen, Semi evergreen, Low elevation evergreen) and availability of river stretches in 6-7 altitudinal planes with good amount of Riparian vegetation and riverine micro habitat (Bachan et al., 2014).

The catchment forests of Chalakkudy River within the Anamalis considered as one of the hottest hotspot (Nayar, 1996; Bawaet al., 2007) in terms of biodiversity with in the Western Ghats Sri Lanka biodiversity hotspot. The riparian forest along the river is very unique in its structure and floristic composition with good number of endemic and threatened flora and fauna (Bachan and Pradeep, 2015) the low elevation evergreen riparian forests in the Vazhachal - Athirappilly region (50-350m Elevation) has been recognised as unique ecosystem because of unavailability of similar vegetation across the Western Ghats (Bachan, 2010; Bachan and Pradeep, 2015). The presence of true evergreen flora, nesting of three Hornbills especially Great hornbills, Malabar Pied Hornbills and many endemic and endangered flora and fauna indicates its biological significance.

EMERGING TRENDS IN COMMERCE & MANAGEMENT

Dr. UMESH U



Mayas Publication®

EMERGING TRENDS IN COMMERCE & MANAGEMENT

Dr. UMESH U



Published by

Mayas Publication*

Tamil Nadu | Kerala | Karnataka | New Delhi

Maya1984kannan@gmail.com

www.mayaspublication.com

www.gujnor.com

Published In First



Published by

Mayas Publication®

Tamil Nadu | Kerala | Karnataka | New Delhi

Maya1984Kannan@gmail.com

www.mayaspublication.com

www.eijfmr.com

Disclaimer:

The findings/views/opinions expressed in this book are solely those of the authors and do not necessarily reflect the views of the publisher.

© Copyright: Mayas Publication

ALL RIGHTS RESERVED

No part of this publication can be reproduced in any form by any means without the prior written permission from the publisher. All the contents, data, information, views opinions, charts tables, figures, graphs etc. that are published in this book are the sole responsibility of the authors. Neither the publishers nor the editor in anyway are responsible for the same.

Book Name: EMERGING TRENDS IN COMMERCE & MANAGEMENT

Editor: Dr. UMESH U

ISBN: "978- 93- 89507- 39-3"

Edition: First

15.	Make in India - An Innovative Project to Boost Digital Infrastructure Jaseena KB & Jaseela KB	131-136
16.	Service Quality and Customer Satisfaction of Indian Mobile Network Providers - Special Reference to Kodungallur Municipality – In Kerala Girish M.C & Dr.Reji M.A	137-151
17.	Stressed Assets In Indian Banking Industry- Evaluation Of Crisis In Co-Operative Banking Sector Remesh K K & Dr. Umesh I	152-159
18.	Evaluation of Institutional Support in Entrepreneurial Development among the Tribal People of Attappadi Block Swapna K & Dr.Jagadees Chandran G	160-169
19.	Cashless Economy in Rural Kerala With Special Reference to Kadukutty (Rural) Grama Panchayat, Chalakudy Dr Princy Francis	170-181
20.	A Critical Study on Impulse Buying Behaviour of Women in Mananthavady Taluk of Wayanad District, Kerala Rajitha Navior & Dr.Umesh.I	182-188
21.	A Study on the Significance of Green Accounting in the Cultural Capital of Kerala – Thrissur Remya S & Dr. G.S. Sandhya Nair	189-197
22.	Behavioural Finance - An Overview Robin Abraham & Genoy George	198-205
23.	A Study on the Effect of Monetary and Non-Monetary Sales Promotion Tools on the Consumption of Cosmetic Products With Special Reference to Vadakara Taluk in Calicut District in Kerala Muhammed Salim K.C & Dr. G. Deepa	206-218
24.	Graduate's Employability Skills - A Study on Kerala Context Shameer Babu, I & Dr.Zobetha	219-226
25.	Employee's Competency Skill at Private Sector Banking Sudhesh Kumar K. & Dr.A.M.Viswambharan	227-233

**CASHLESS ECONOMY IN RURAL KERALA:
WITH SPECIAL REFERENCE TO KADUKUTTY (RURAL)
GRAMA PANCHAYAT, CHALAKUDY**

Dr Princy Francis

HOD & Assistant Professor

P.G. Department of Commerce

M.E.S. Asmabi College

(Aided by Govt. of Kerala & affiliated to Uty of Calicut

Padinjare Vemballur P.O

Kodungallur - 680 671, Thrissur Dist, Kerala, India.

Email id: eprincyfrancis@gmail.com

ABSTRACT

India would like to be a cashless economy to reduce black money and fake currency. It is also useful to control tax avoidance. This paper is motivated by knowing the status of cashless economy rural area of India. The objective of the study is to know the public perception about the concept of cashless economy and try to understand the financial status, literacy in education, finance and technology of rural Kerala. Descriptive study has been done in rural Kerala by using percentage analysis and descriptive statistics like mean score. It also focuses on to know gender difference among Kerala rural people about the willingness of becoming cashless economy. Here 186 people are selected to make this study in a most effective way and suggests that what are the points to take into consideration to assure the wide spread of cashless economy in the rural areas of Kerala. It is also found out that there are no gender differences about the cashless economy by doing t-test.

Keywords: *Cashless economy, Rural Kerala, India, financial literacy, financial inclusion, online banking, technology in banking.*

1 INTRODUCTION

Cash is like blood in our human body, a basic necessity without which survival is a problem. As a whole, about 85% payments are made in cash because of the flexibility of the notes and coins. The digital era always introduces new methods of payment system at the time. A report by Boston Consulting Group (BCG) and Google India revealed that last year around 75 per cent of transactions in India were cash-based, while in developed nations such as the US, Japan, France, Germany etc. it was around 20-25 per cent. Government of India pointed out the importance of cashless economy to overcome terrorism and other illegal activities. Cashless leads India to move

CRIME AGAINST WOMEN

Editor

Dr. Asha Elizabeth Thomas



ST. PAUL'S COLLEGE KALAMASSERY

(NAAC RE-ACCREDITED WITH 'A' GRADE AND ISO CERTIFIED INSTITUTION)

MARCH 2020

WITH THE SUPPORT OF
NATIONAL COMMISSION FOR WOMEN

With the support of
NATIONAL COMMISSION FOR WOMEN

Contemplations on 'Crime against Women'- Collection of Peer Reviewed Articles presented in the 'Two Day National Seminar on Crime against Women: Technology and Crime against Women' organized by St. Paul's College, Kalamassery with the support of National Commission for Women on January 13-14, 2020.

Editor

Dr. Asha Elizabeth Thomas

Assistant Professor & Research Supervisor
Post Graduate and Research Department of Commerce
St. Paul's College, Kalamassery
Kochi-683503
E-mail: asha@stpauls.ac.in

Copy Rights Reserved by the Editor
First Published in March 2020

Publisher

Dr. Asha Elizabeth Thomas

Assistant Professor & Research Supervisor
Post Graduate and Research Department of Commerce
St. Paul's College, Kalamassery
Kochi-683503
E-mail: asha@stpauls.ac.in

Printed in India at

Indu Offset Printers,
University Road, Alfiya Nagar, South Kalamassery,
Kalamassery, Ernakulam, Kerala 680104

No part of this publication can be reproduced, or transmitted in any form or by any means, without prior written permission of the editors. All data, views, opinions, etc. that are published in this book are the sole responsibility of the individual author. Neither the institution nor the editor is in any way responsible for them. The author (s) is solely responsible for taking permission from earlier publications for inclusion in their paper.

Price: Rs. 500/-
ISBN: 978-93-5407-091-4

Contents

1. Cybercrimes against Women and Legal Perspectives 01
Adv. Emil Stanley
2. United Nations and the Status of Women 09
Dr. Anila K.
3. Recent Changes in the Sphere of Domestic Violence
against Women in India 17
Ms. Raji T.
4. Violence and Harassment against Women in the
Workplace 29
Dr. Manjula R Iyer
5. Gendered Violence in Everyday Life of Kashmiri
Women: A Study of Militarization in Freny
Manecksha's Behold, I Shine: Narratives of Kashmir's
Women and Children 43
Ms. Deepa George
6. Endosulfan, Women's Health and Livelihoods – A
study of socio-economic impacts of pesticide use in
Kasargod District of Kerala 57
Ms. Yamini Virginia John
7. Sugaring the Sugar Babies: Reconnoitring Violence
in 'Seeking Arrangement' 69
Ms. Aneeta Joseph & Ms. Liya Justine
8. Cyberstalking 75
Ms. Jesmi Jacob
9. Domestic Violence against Women 81
Ms. Shiney C N & Ms. Hafila Ahammad Habeeb
10. Castigation of Victims: Sororophobia in Ovid and
Rape Culture in Haryana 91
Ms. Aneesia Jogi

DOMESTIC VIOLENCE AGAINST WOMEN

Ms. Shiney C N

Ms. Hafla Ahammad Habeeb

Introduction

Violence against women, materialization of a historic unequal power relation between sexes is a form of discrimination and mistreatment of women which results in physical, psychological and socio-economic costs to women and society as well. Violence implies destruction, anger and pain while family suggested the qualities of caring, love and joy. Domestic violence occurs at all familial level-between couples, siblings, in parent-child relationship, and often times, dating relationships. Women and girls face violence at home, in school, on the street, at work, on public transportation and online. They experience violence in times of peace and times of conflict or war.

Objective of the Study

- a) To assess the level of domestic violence suffered by the women in Kodungallur taluk.
- b) To analyze the major factors that causes domestic violence.
- c) To know the reason for compromise in domestic violence.

Statement of the Problem

Of all the crimes against women, domestic violence is the most important. All the time women suffered from discrimination, oppression, exploitation, degradation, aggression and humiliations not only from their family members but also from the society. Only when the family and society are democratized, the status of women is strengthened. Women should be considered as equal to men not only at public places but also at their own home. They should have adequate control over their own resources.

CRIME AGAINST WOMEN

Editor

Dr. Asha Elizabeth Thomas



ST. PAUL'S COLLEGE KALAMASSERY

(NAAC RE-ACCREDITED WITH 'A' GRADE AND ISO CERTIFIED INSTITUTION)

MARCH 2020

WITH THE SUPPORT OF
NATIONAL COMMISSION FOR WOMEN

With the support of
NATIONAL COMMISSION FOR WOMEN

Contemplations on 'Crime against Women'- Collection of Peer Reviewed Articles presented in the 'Two Day National Seminar on Crime against Women: Technology and Crime against Women' organized by St. Paul's College, Kalamassery with the support of National Commission for Women on January 13-14, 2020.

Editor

Dr. Asha Elizabeth Thomas

Assistant Professor & Research Supervisor
Post Graduate and Research Department of Commerce
St. Paul's College, Kalamassery
Kochi-683503
E-mail: asha@stpauls.ac.in

Copy Rights Reserved by the Editor
First Published in March 2020

Publisher

Dr. Asha Elizabeth Thomas

Assistant Professor & Research Supervisor
Post Graduate and Research Department of Commerce
St. Paul's College, Kalamassery
Kochi-683503
E-mail: asha@stpauls.ac.in

Printed in India at
Indu Offset Printers,
University Road, Alfiya Nagar, South Kalamassery,
Kalamassery, Ernakulam, Kerala 680104

No part of this publication can be reproduced, or transmitted in any form or by any means, without prior written permission of the editors. All data, views, opinions, etc. that are published in this book are the sole responsibility of the individual author. Neither the institution nor the editor is in any way responsible for them. The author (s) is solely responsible for taking permission from earlier publications for inclusion in their paper.

Price: Rs. 500/-
ISBN: 978-93-5407-091-4

- | | | |
|---|----|--|
| 11. Cyber Crime against Women and Children in India | 10 | |
| <i>Ms. Dhanusree Ullas K.</i> | | |
| 12. Sexual Objectification through Virginity Blood
Capsules: Reshaping Old Myths of Virginity Blood | 11 | |
| <i>Ms. Dona Mariya Thomas</i> | | |
| 13. Silver Screen and the Social Media: Tracing the #
MeToo Movement | 12 | |
| <i>Ms. P.R. Mrudula</i> | | |
| 14. Security Awareness Level of Women Smartphone
Users | 12 | |
| <i>Mr. Bharathan Syam & Mr. Sreenu K.S.</i> | | |
| 15. Awareness and Perception on Digital Safety and
Security among Internet Users with Reference to
Girl students | 13 | |
| <i>Ms. Deepa KA & Ms. Athira A. A.</i> | | |
| 16. A Study on Driver Distraction Detection | 13 | |
| <i>Ms. Deepthi M Pisharody & Dr. Binu P Chacko</i> | | |
| 17. Women Empowerment through Online Jobs in the
Digital Economy | 15 | |
| <i>Ms. Aparna Nelson</i> | | |
| 18. Rising Textile Industry in Kerala and Women
Entrepreneurship | 16 | |
| <i>Dr. Sumitha Franklin & Ms. Asna T.A</i> | | |
| 19. The Scope of Women Entrepreneurship in 2020 | 17 | |
| <i>Ms. Lincy P. T. & Mr. Jackson D'Silva</i> | | |
| 20. Women and Technologically Advanced Indian society | 18 | |
| <i>Ms. Ruby Stanly E.</i> | | |
| 21. Women and Social Media: Is Introducing New
Security Options the Real Solution to the Problems
faced by Women on Digital Platform? | 19 | |
| <i>Ms. Gouri R.</i> | | |

22. A S
Pri
Ms
23. We
Do
Ms
Papers
24. (D
GC
25. (S
GC

AWARENESS AND PERCEPTION ON DIGITAL SAFETY AND SECURITY AMONG INTERNET USERS WITH REFERENCE TO GIRL STUDENTS

Ms. Deepa K A

Ms. Athira A A

Introduction

In recent years the usage of internet technologies has expanded and for most people the internet is a very present factor in everyday life. Internet has become a part of our children's daily activities at home and at school. The benefits of the Internet for children are huge and include education and entertainment. However, the same technologies also pose some risks that parents need to identify and guard against. A lack of awareness can cause children to encounter serious danger and become victims of Internet criminals.

As the internet usage by the children and teenagers increases, so do the concerns about their online safety. Providing a safe environment requires an in-depth understanding of the types and prevalence of online risks young internet users face, as well as of the solutions most effective in mitigating these risks. Despite the very significant amount of research that has been conducted regarding these risks, improving child/youth internet safety remains a challenge. The perception of online risks for young people is often attributed to adult predators, whereas studies show that cyberbullies are likely to be in the same age group as their victims (Whitaker and Bushman, 2009).

There are many concerns for the safety of young people accessing the internet for social networking purposes. While the internet offers many benefits and opportunities for adolescents, it is also the source of many potential threats, including exposure to

साहित्य की आँखों से पर्यावरण की झलक



संपादक

डॉ. रंजित एम् • डॉ. सूर्या बोस

साहित्य की आँखों से पर्यावरण की झलक

संपादक

डॉ. रंजित एम् • डॉ. सूर्या बोस

जवाहर पुस्तकालय

हिन्दी पुस्तक प्रकाशक एवं वितरक

मथुरा-281001(उ.प्र.)

ISBN : 978-81-946862-3-1

© : सर्वाधिकार सुरक्षित

प्रकाशक : गोविन्द पचौरी

जवाहर पुस्तकालय

हिन्दी पुस्तक प्रकाशक एवं वितरक

सदर बाजार, मथुरा-281001 (उ.प्र.)

दूरभाष : 09897000951

ई-मेल : jawahar.pustakalaya@gmail.com

मूल्य : 250.00 (दो सौ पचास रुपये मात्र)

प्रथम संस्करण : 2020

आवरण : विनीत शर्मा

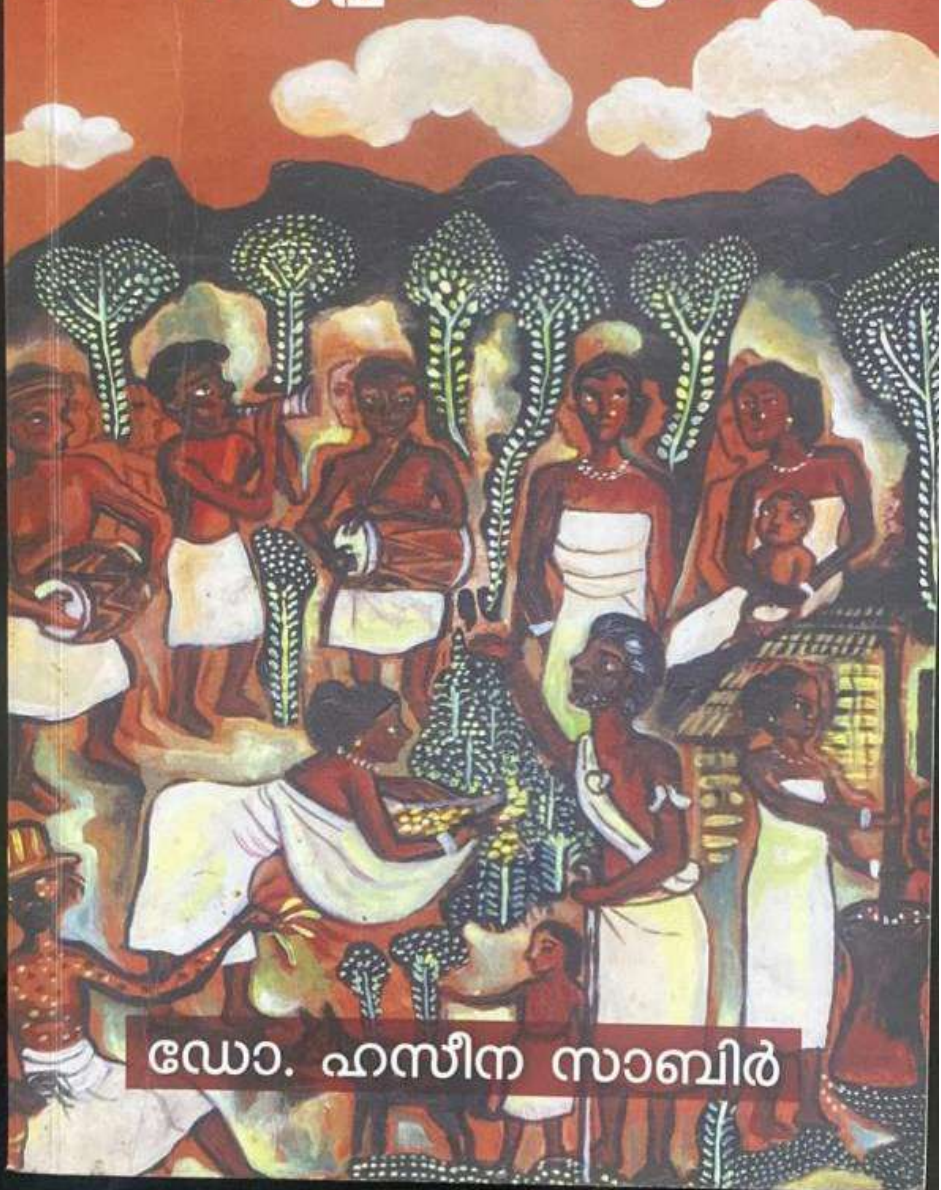
शब्द-संयोजन : गीता डिजाइनिंग ग्रुप, दिल्ली-110094

मो. : 09350345268

मुद्रक : जय भारत प्रेस, नवीन शाहदरा, दिल्ली-110032



ആദിവാസി ജീവിതം അടുപ്പാടിയിലൂടെ



ഡോ. ഹസീന സാബിർ



Malayalam
(Indian)

Aadhivasi Jeevitham Attappadiyiloode/Dr. Haseena Sabir
(Study)

First Edition: January 2020
ISBN: 978-81-942528-6-3

© All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the Publisher.

Cover Painting: Sheeja Pallam
Cover Design: Nishan
Printing: Printoutvilla, Makkam, Calicut

Publishers: **Basho Books**
1st Floor, Metro Building, Chinthavalappu, Ram Mohan Road
Calicut-673004. Ph: +91 9400451265, +91 9847666923
email:bashoeditorial390@gmail.com

₹ 200 (Two Hundred Rupees)

Functional Grammar and Communication in English

**A prescribed text for first semester (Course ENG
1 A02) Common Course in English for all UG
Programmes)**

Dr. Muralikrishnan T.R.

Sabitha M.M.

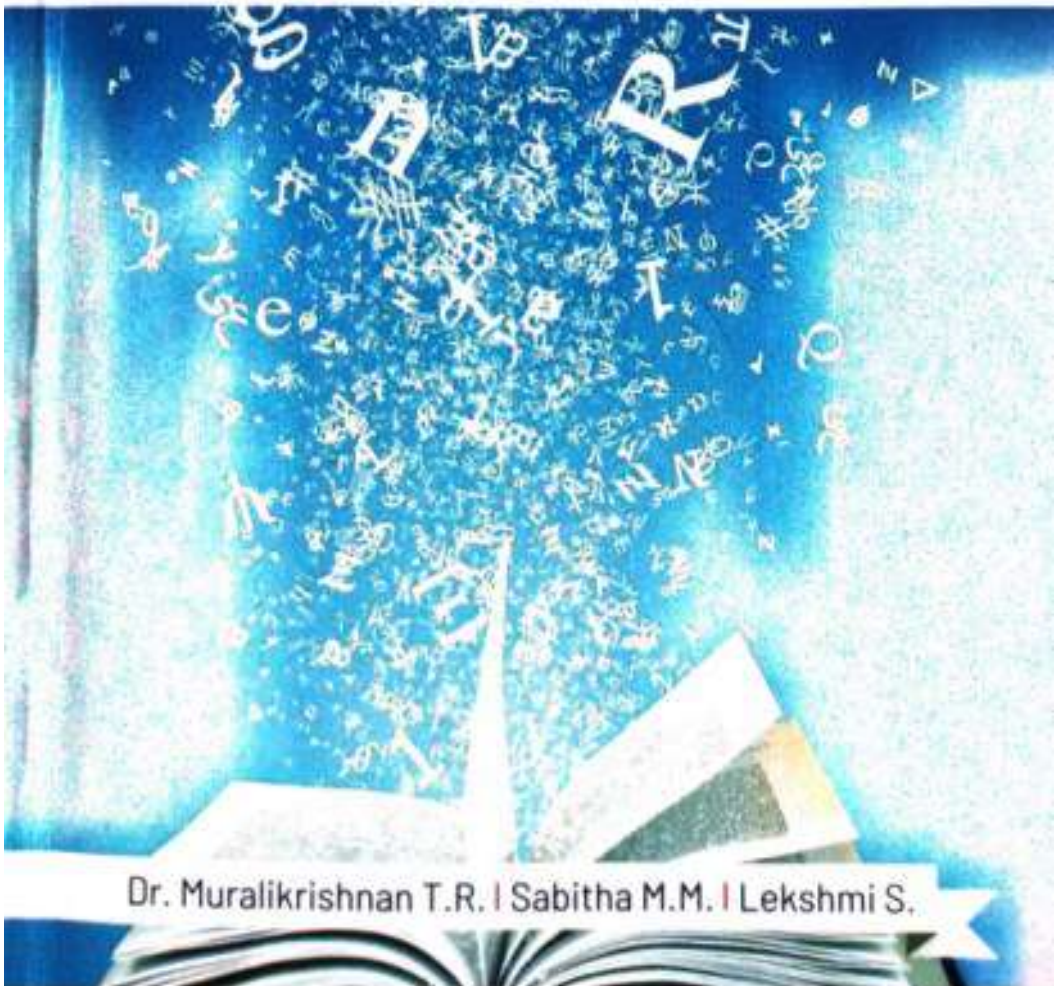
Lekshmi S.



PUBLICATION DIVISION, UNIVERSITY OF CALICUT



Functional Grammar and Communication in English



Dr. Muralikrishnan T.R. | Sabitha M.M. | Lekshmi S.

Members of the Board of Studies in English (UG)

1. Dr. Pradeepkumar K. (Chairperson)
2. Smt. Siniya Tom Kenady
3. Dr. Raheena K. K.
4. Dr. Basheer V. P.
5. Dr. Sreepriya
6. Sri. Ramachandran K.
7. Dr. Sajitha M. A.
8. Dr. Muralikrishnan T. R.
9. Sri. Roy P. P.
10. Smt. Sreeja G.
11. Dr. K. M. Sherrif (Chairperson, BoS in English-PG)

**Functional Grammar and
Communication in English**

Dr. Muralikrishnan T.R.
Sabitha M.M.
Lekshmi S.

Calicut University Edition
Published in July 2022

Cover: Asuthosh V.
Typesetting : Laly Francis K.

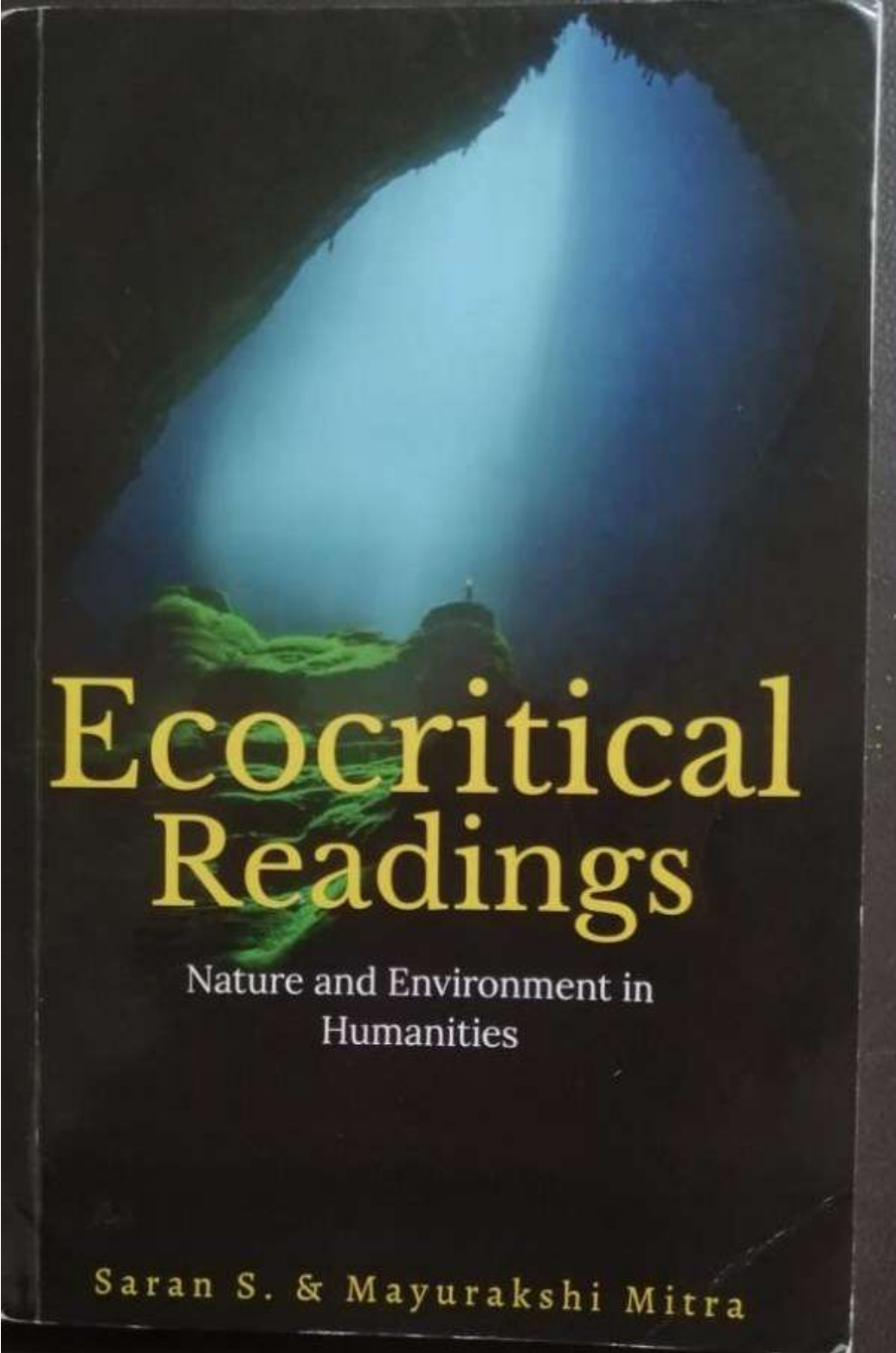
© UNIVERSITY OF CALICUT
Printed at Calicut University Press

Price: Rs. 150/-

ISBN 978-81-953846-3-1

Published by Omprakash V., Publication Officer, University of Calicut.

CUP/3045/22/75000/PUB



Ecocritical Readings

Nature and Environment in
Humanities

Saran S. & Mayurakshi Mitra

Contents

<i>Foreword</i>	v
<i>Editor</i>	vii
<i>Editor</i>	ix
<i>Contributors</i>	xi
<i>Introduction</i>	xv
1. Ecofeminism: Moving Towards A Sustainable Environment	1
2. Economic Importance Of Forests And Forest Reserves In Jammu And Kashmir	10
3. Nature And Indian Culture As Reflected In The Felling Of The Banyan Tree By Dilip Chitre	22
4. Environment And Culture Of Bengal In Jibanananda Das's Rupasi Bangla	30
5. The Importance Of Nature Based Solutions In The Post Covid 19 Scenario	40
6. Ecotourism	53
7. Living Ecosystems: Culture And Identity Of Select Characters In 'gift In Green' And 'the Hungry Tide'	67
8. Screening The Green : Ecocritical Rereading Of The Malayalam Film Lord Livingstone 7000 Kandi	78
9. Framing Realism And Magical Realism As Means To The Emergence Of Women As Empowered Beings: A Study In Relation To Thappad And Bulbbul	104
10. Transgressing The Thresholds: An Eco-feminist Reading Of Mahasweta Devi's The Hunt	111
11. Ecocriticism In Madhurai Gayatri	120

CHAPTER IX

Framing Realism and Magical Realism as Means to the Emergence of Women as Empowered Beings: A Study in Relation to Thappad and Bulbbul

Sinay Siddiq

Assistant professor, Department of English
M. E. S. Asmahi College, Trichur

Abstract

Anubhav Sinha, director of the movie 'Thappad' is also a producer and writer well known for a handful of good movies. The movie underlies the fact that each woman has an identity of her own which cannot be intruded and banished. They have all freedom to fight for their rights in a country like India. Bollywood has brought about several strong characters out of women which include historical figures like 'Padmavat' to ordinary women like in 'Pink'. The director of 'Bulbbul' a lady herself is an Indian dialogue writer, lyricist, screenplay writer and story writer. Clearly portraying a woman's journey from innocence to strength and courage, she could get a good and effective output from the movie. These two movies embedded with the theories of realism and magical realism in this particular feature. To show how reality is different from magical world in which many women are still stuck and cannot find their way outside.

Keywords: realism, magical realism, women empowerment, sexual harassment.

• • •

Women, considered as one of the weak strata of the society has always been drawn towards the 'dim light'

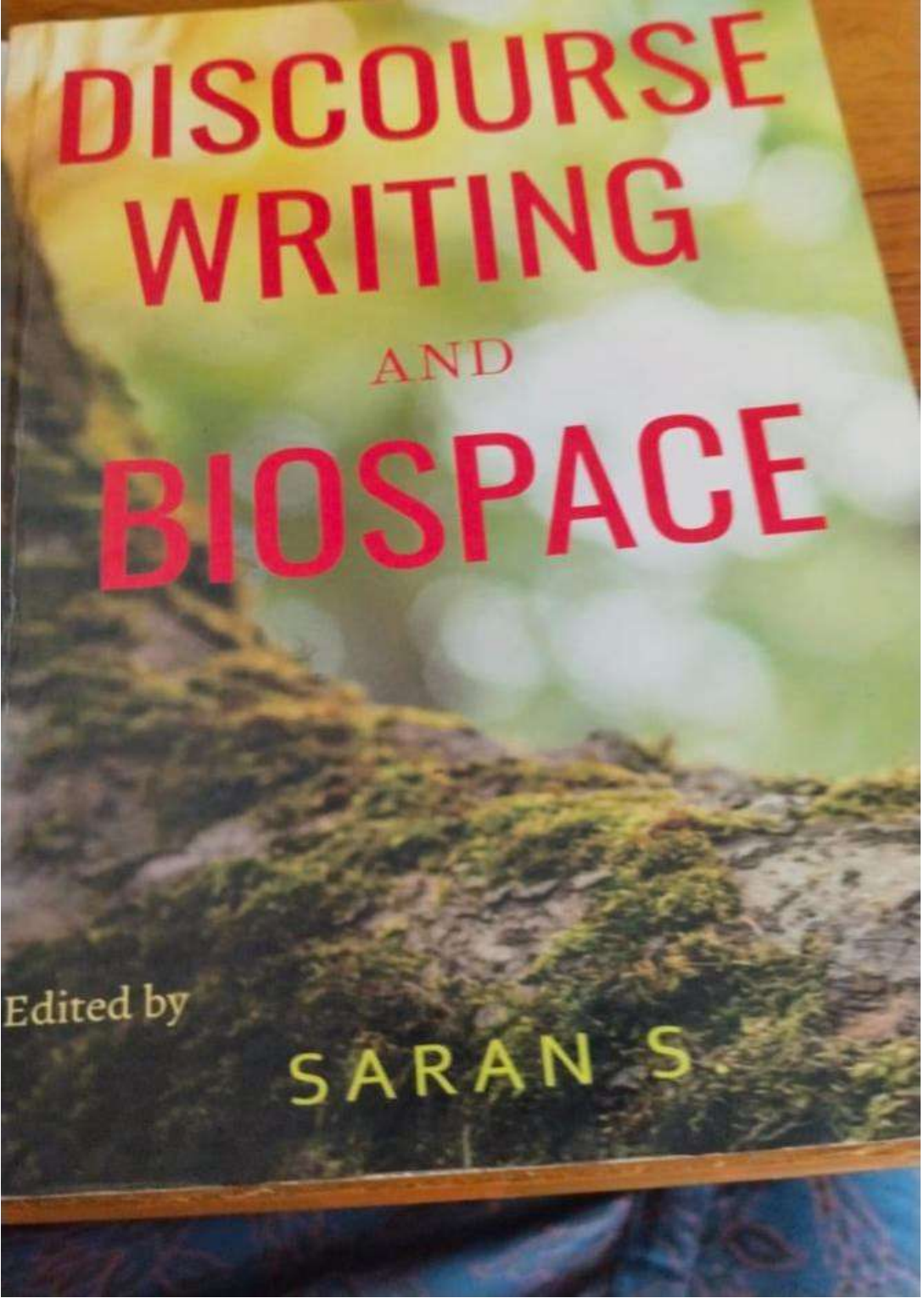
Ecocriticism is an inclusionary term that is most commonly used to refer to environmentally oriented study of literature, art and other media. Life with the harmony of nature and environment is an integral part of human life. Many ancient cultures have advocated life in harmony with environment. Many of the rituals i.e. the worship of trees, animals, forests, rivers, and the sun, and considering the earth itself as Mother Goddess may seem meaningless in this modern era. But these rituals and culture have connected humans with environment from ancient ages. It tries to bring a balance between shallow ecology or anthropocentric approach that advocates conservation of nature and natural resources as against deep ecology that advocates preservation of nature. In the last few decades, this theory has grabbed the attention of scholars and has proved itself to be an interesting field of investigation in literature. It becomes essential to the human being, as the readers of literature, to know the theory and the various fields involved in it. Human life can neither be away from the environment nor from the literature. The theory 'ecocriticism' reflects on the relationship between environment and human life.

**Saran S.
Mayurakshi Mitra**

Edit Academic
May 2021

Price Rs 650.00
ISBN 978-1-63904-406-1





**DISCOURSE
WRITING**
AND
BIOSPACE

Edited by

SARAN S.

Contents

<i>Foreword</i>	
<i>Editor</i>	
<i>Introduction</i>	ix
<i>Contributors</i>	xii
1. Greening The Self: Native American Green Politics In Leslie Marmon Silko's Gardens In The Dunes	1
2. Self-annihilation To Self-affirmation: The Coalescence Of Biome In Anthropocene	11
3. Reading Coleridge's The Rime Of The Ancient Mariner And D. H. Lawrence's Snake From A Zoocritical Perspective	20
4. Post- Covid Digital Era	28
5. Writing On The Biospace: The Entanglement Of Bodyspace And Geospaces In Gregory David Robert's Shantaram	39
6. Persecution Of Women In The Novel The Glory Of Sri Sri Ganesh: Mahasweta Devi	50
7. Collapsing And Rebuilding: A Feminist Reading Of Noor Unnahaar's Yesterday I Was The Moon	56
8. Djinn As Elements Of Horror And Fantasy In Films: Existential Crisis And Portrayal	63
9. Feminist Reading Of L N Tolstoy's The Kreutzer Sonata And D H Lawrence's Sons And Lovers	71
10. Shifting The Paradigms Of Representation: A Study On The Films Of Anjali Menon	80
11. Basheerianism: A Transformation Of The Life Narratives	92

Contents

12. Literary Response To Pandemic: An Anthropocentric
Analysis Of The Stand 132
13. Shaikh-ul Aalam As An Eco-critical Poet 140
14. Bama's Voice In Thwarting The Triple Monsters:
Mapping Her Struggle Through Sangati 146
15. Annihilation Of Caste: Ambedkar's Dream Unfulfilled 154
16. Deconstructing Masculinity And Reinforcing Femininity:
The Double Standards Underlying South Korean Popular
Culture 160
17. Nature And Women: Discourses On Ecofeminism In The
Mistress Of Spices By Chitra Banerjee Divakaruni 172

Djinn as Elements of Horror and Fantasy in Films: Existential Crisis and Portrayal

Sinsy Siddiq
Assistant Professor, Department of English
M. E. S. Asmabi College, Trichur

Abstract

In the Beginning, Three were Created...

Man made of Clay.

Angels made of Light.

And a Third ... made of Fire.

In modern age, the all powerful and mastering creation called MAN has altogether forgotten an existence on earth called the 'jinn'. They are constantly indulging with the concept of angels though. Made of smokeless fire, as believed in myths, the jinn continued to influence the species of man in a way; good or mean. Wild imaginations and fantasies regarding man and angels have immersed so much into our thoughts that the existence of the third creation has been nearly wiped off into oblivion. The fact should not be forgotten that they cross our paths quite in unusually usual ways, not making evident their presence. But do not be carried off by a slight shiver or goose bumps travelling through your body; the race exists but not without any intension on earth.

Keywords: Djinn, fantasy, magical realism, hallucination, horror.

• • •

Jinn (meaning spirit or demon, depending on source) are meant to be supernatural creatures in Islamic Mythology. Like humans, they are believed to be created by natural conception; neither born as believers nor as unbelievers, but their dispositions depends solely on either God's guidance or human influencers or black

The book "Discourse, Writing and Bio-Space" gives a meta-analysis of writing and writing pedagogy theory and research, distinguishing discourses in Media Literacy and Identity, Geospatial humanities, Digital Humanities, Media Ethics, Communication for Development, Governance and Policy Making, Post-Covid Digital Era, Feminism and New-Feminism, Film Theory, Eco-critical Studies, ICT and ELT and Cultural Studies. It introduces and describes a framework for analyzing educational data regarding writing pedagogy in which linkages are formed between perspectives on language, perspectives on writing, perspectives on learning to write, perspectives on teaching writing, and perspectives on writing evaluation. A core notion that writing consists of applying knowledge of a set of linguistic patterns and rules for sound-symbol interactions and sentence formation underpins much of literacy education policy and practise. At its most extreme, this is the view that writing is a single, context-free activity in which all writing follows the same patterns and principles regardless of text type.

Edited by
Saran S.

Edit Academic₄
July 2021

Price Rs 700.00
ISBN 978-1-63940-739-2





Chronicles of Heart

Compiled By

Shivangi Jaiswal

Registered Under MSM&E Act, Government of India
UAM - 88075003665



Flairs & Glairs

Certificate of Publication

This is presented to

Dr Amitha P Mani

for being the Co-author of the book titled
"Chronicles of Heart"
compiled by Shivangi Jaiswal
published with "ISBN - 9789391302252"
by Flairs and Glairs.

Shivangi Jaiswal

SHIVANGI JAISWAL
Co - founder

SHIVANGI JAISWAL
Co-founder



Realizing the Basal: The Pandemic Impact

Though she was a firm believer, her concept of God was not acceptable to the family. It was a traditional Hindu family that performed routine temple visits, holy rites, usual chanting and fasting. For her evening is the time she got to work hard for her studies and do her daily chores. She was used to abstain from the evening temple visits as it spoiled her whole day. Can the loud reciting bring sanctity to soul or peace to the mind? For her, the perfect homework for the next day enabled her to work for a better tomorrow. One needs to be loyal to the customary practices in the family, otherwise the family muse would not stand with her at the time of crisis. For the rhetorical question, can anyone stand with one's inner self at any crucial juncture, the answer is an emphatic 'no.'

Self-help and appreciation are the best things one can do for inner peace; on the other hand, this will lead to genuine humane feelings discarding the mundane performances. At that time the lockdown was declared as an impact of Covid 19. With the other shutting downs, places of worship were also closed. That which was lost by the family members by not going for these regular visits was the darkness that covered the mind, though occasional visits turn out to be good to eliminate the negativity as believed by her. Thus, she got perfect opportunity to go back to her real self, read and understand a lot along with the family. The period taught that worship of God need not be displayed, but can be done in mind, for such people work itself is worship. She counted these among the very few benefits of the pandemic period.

Co Author

Shubham Shah (Founder Flairs and Glairs)
Ishani Agarwal (Co-Founder Flairs and Glairs)
Shivangi Jaiswal (Compiler)

1. Dilip M. Bhise
2. Risha Gogoi
3. Ashim Das
4. Arkadeb Dutta
5. Shreyangshi Chakraborty
6. Salma Faujia Islam
7. Ayanav Purkayastha
8. Prem Chandrakant Lalwani
9. Ashtha Barnwal
10. Sneha Chakrabarty
11. Sheetal Yadav
12. Insha Afreen
13. Aman Raj
14. Divyadharshini R
15. Kalparaj Chakraborty
16. Fiza Mansoor
17. Meghna Verma
18. T. Priyadharshini
19. Dr Amitha P Mani
20. Deepti Srivastava
21. Arnab Das Gupta
22. Shelma Jayan
23. Sufaya Yousf
24. Srinjoy Mitra

Haseena Sabir

Livelihood Status of the Tribal Women

Published by



City Publication

1/9944, UG/Floor, Gali No. 3A,
West Gorakh Park, Shahdara, Delhi - 110032
Mob:- 9871454987
E-Mail: citypublication2001@gmail.com

Livelihood Status of the Tribal Women

© Dr. Haseena Sabir

[All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, mechanical or photocopying, recording and otherwise, without prior written permission of the editors and the publisher.]

First edition: 2021

ISBN No. 978-93-8911-747-9

PRINTED IN INDIA

Printed at: New Delhi



PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON

Plant Physiology & Biochemistry

January 19-20, 2022

Organised by

The Department of Botany

Fatima Mata National College

Kollam, Kerala, India-691001

Edited & Compiled by

Sinilal B., Dintu K.P. and Sofia S.

Priming mediated biotic stress tolerance in *Curcuma longa* L.T.R. Athira¹ and K.C. Jisha²

PG and Research Department of Botany, M.E.S Asmabi College, P. Vemballur, Kodungalur, Kerala, India

Seed priming is an effective method to enhance germination and growth under stressful conditions. The effects of different rhizome priming techniques namely Hydropriming, Halopriming and Chemical priming on the emergence, growth, and resistance in *Curcuma longa* L. were investigated in this study. In this study, the most effective reagents were used, together with pre-optimized concentrations based on early studies. Three different turmeric varieties, namely Prabha, Prathibha, and Pragati were primed and allowed to grow in grow bags along with the control rhizomes. Rhizomes were treated with 250Mm NaCl for 12 hours during halopriming. Rhizomes were hydro-primed for 12 hours using distilled water. Chemical priming involves treating the rhizome with different concentrations of potassium nitrate [50Mm, 100Mm, 150Mm, 200Mm, 250Mm, 300Mm]. Rhizome primed with 200Mm KNO₃ showed the highest growth rate. They also showed the highest chlorophyll content. Moreover, the overall growth of plants is enhanced due to the seed-priming treatments. Proline concentration was significantly higher in KNO₃ primed plants and MDA content was higher in the halo primed variety. Proline levels increase in the turmeric leaves in response to increased stress conditions and help in stress tolerance. Most halo and hydro-primed plants are disease-prone however, no disease has been found in the KNO₃ primed plants. As a result, chemical priming provides greater disease resistance than other primed plants. The present study suggested that chemical priming with potassium nitrate is an alternative and more effective method to increase tolerance in turmeric varieties when exposed to different biotic stress conditions.

Keywords: Turmeric; Hydropriming, Halopriming, Chemical priming, growth parameters, Disease resistance



Proceedings of the International Conference on Plant Physiology & Biochemistry

Edited and Compiled by
Sinilal B., Dintu K.P. and Sofia S.

Cover design by Sinilal B.



Published by
The Department of Botany Fatima
Mata National College Kollam,
Kerala, India - 691001

ISBN:978-81-950724-9-1

First Published in India 2022

This book reproduces the Proceedings of the International Seminar on Plant Physiology & Biochemistry conducted on January 19th and 20th of the year 2022. Abstracts of the presentations are given as per the schedule of the conference.

Copyright © botany.fmnc 2022

All rights reserved. No part of this may be reproduced, transmitted or stored in a retrieval system in any form or by any means without permission granted from the Department of Botany, Fatima Mata National College, Kollam. Enquiries in this regard may be addressed to botany@fmnc.ac.in


Algae Source of Biofuel and Phytoremediation

Taylor & Francis Group
Taylor & Francis Group in Informatics

T&F eBooks Search for keywords, authors, titles, ISBN

About Us Subjects Browse Products Request a trial Librarian Resources What's New

Home > Environment & Agriculture > Agriculture & Environmental Sciences > Agriculture > Crop Science > Biorenergy Crops > Algae: Source of Biofuel and Phytoremediation



Chapter

Algae: Source of Biofuel and Phytoremediation

By N.K. Aliya, C.M. Jijesh, K.C. Jisha

Book [Biorenergy Crops](#)

Edition 1st Edition
First Published 2022
Imprint CRC Press
Pages 24
eBook ISBN 9781009043222

You do not have access to this content currently. Please click 'Get Access' button to see if you or your institution have access to this content.

GET ACCESS

To purchase a print version of this book for personal use or request an inspection copy go to:

GO TO ROUTLEDGE.COM

Activate Windows
Go to Settings to activate Windows.

Type here to search

1:00 PM 09/02/2023

Ecological Importance of Wetland Systems

Wiley Online Library

Search Login / Register

Chapter 3

Ecological Importance of Wetland Systems

K.C. Jisha, Jos T. Puthur

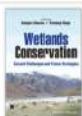
Book Editor(s): Sanjeev Sharma, Pardeep Singh

First published: 24 September 2021 | <https://doi.org/10.1002/9781119692621.ch3>

PDF TOOLS SHARE

Summary

Wetlands are land areas that are completely filled with water, either throughout the year or in some seasons. Wetlands include swamps, marshes, bogs, and fens. Wetlands usually have a rich and distinct ecosystem because of the presence of water and a diverse group of land and aquatic flora. Wetlands serve as a home for many endangered plants and animals and hence these wetlands are very important to the world. Wetlands serve many essential functions like water purification, groundwater recharge, flood control, breeding ground, and shelter for many plants and animals, etc. Moreover, wetlands constitute a highly valuable ecosystem in the biosphere due to the richness of diverse flora and fauna. But, sadly, many of the world's wetlands are degrading due to anthropogenic activities. In this review, various ecological implications of wetlands are



Wetlands Conservation: Current Challenges and Future Strategies

Related Information

Recommended

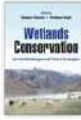
[Wetland hydrology](#)
Tim Beach, Jonathan M. Flood

[International Encyclopedia of Geography: People, the Earth, Environment and Technology, \[1\]](#)

[Direct and indirect climate change effects on carbon dioxide fluxes in a thawing boreal forest-wetland landscape](#)
Manuel Helbig, Laura E. Chasmer, Ankur R. Desai, Natascha Kjun

Type here to search

1:03 PM 09/02/2023



Wetlands Conservation: Current Challenges and Future Strategies

Editor(s): Sanjeev Sharma, Pardeep Singh
First published: 5 October 2021
Print ISBN: 9781119692683 | Online ISBN: 9781119692621
| DOI: 10.1002/9781119692621
© 2022 John Wiley & Sons Ltd.

About this book

Wetlands Conservation

An up-to-date overview of approaches for addressing wetlands degradation and its effects on ecosystem services, human health, and other ecosystems

Wetlands are essential sources of biodiversity, water purification, and clean water. [Show all ...](#)

-  [Buy this Book](#)
-  [Contact your account manager](#)
-  [For authors](#)

[Activate Windows](#)

FRONTIERS IN BIOLOGICAL SCIENCES



Dr. S. G. Yadav



BIO-PRIMING: A REVOLUTIONARY THOUGHT AGAINST CHEMICALS-BASED CROP IMPROVEMENT

Sumitha Thomas and Jisha K.C.*

Research & Post Graduate Department of Botany, MES
Asmabi College, P. Vemballur, Thrissur, Kerala-680671,
India.

Abstract- The ideal methodology that can be used for rendering resistance to plants against various stressful situations is priming. In priming, physiological state of seeds can be changed by treating with various priming agents like water, chemical and biological organisms. Various microorganisms including plant growth promoting bacteria and fungi are successfully used for bio-priming in plants. Because of the eco-friendly nature of bio-priming, it becomes an apt method that can be practiced for the future for stress alleviation in crops. It imparts both abiotic and biotic stress tolerance in plants. Agriculture sector has been dramatically depending on the chemical pesticides and fungicides for eradicate pathogenic attacks. Bio-priming is a promising strategy for imparting various biotic/abiotic stresses thus paving way for the removal of chemicals from crop protection.

Introduction - The incipient object of an agricultural sector is the better establishment of crop in a cost-effective method. For many years researches have been investigating to improve the crop production for achieving sufficient food for the future generations (Singh et al. 2016.). Abiotic stress remains the greatest constrain to crop production worldwide. It has been projected that more than 50% of yield reduction is the direct result of abiotic stresses. Biotic stress is another

FRONTIERS IN BIOLOGICAL SCIENCES



Dr. Yadav S.G. (M.Sc., Ph.D., F.I.A.S.I., F.S.L.Sc.) Working as an Assistant Professor and Head Department of Botany, Shivaji Mahavidyalaya Renapur Dist. Latur (M.S.) since 2011. He was awarded by Ph.D. degree in Taxonomy of Algae in 2010 by Dr. Babasaheb Ambedkar Marathwada University Aurangabad. He is recognized research supervisor of Swami Ramanand Teerth Marathwada University, Nanded and two research students are pursuing Ph.D. work under his guidance. He has published 90 research papers in reputed International and National Journals. He has presented 48 research papers in International/National Conferences. He has published two books of his own and edited one book. He is a member and fellow of various scientific societies. His area of research interest are Taxonomy, Phycology, Aerobiology, Environmental Biology and Plant Pathology.

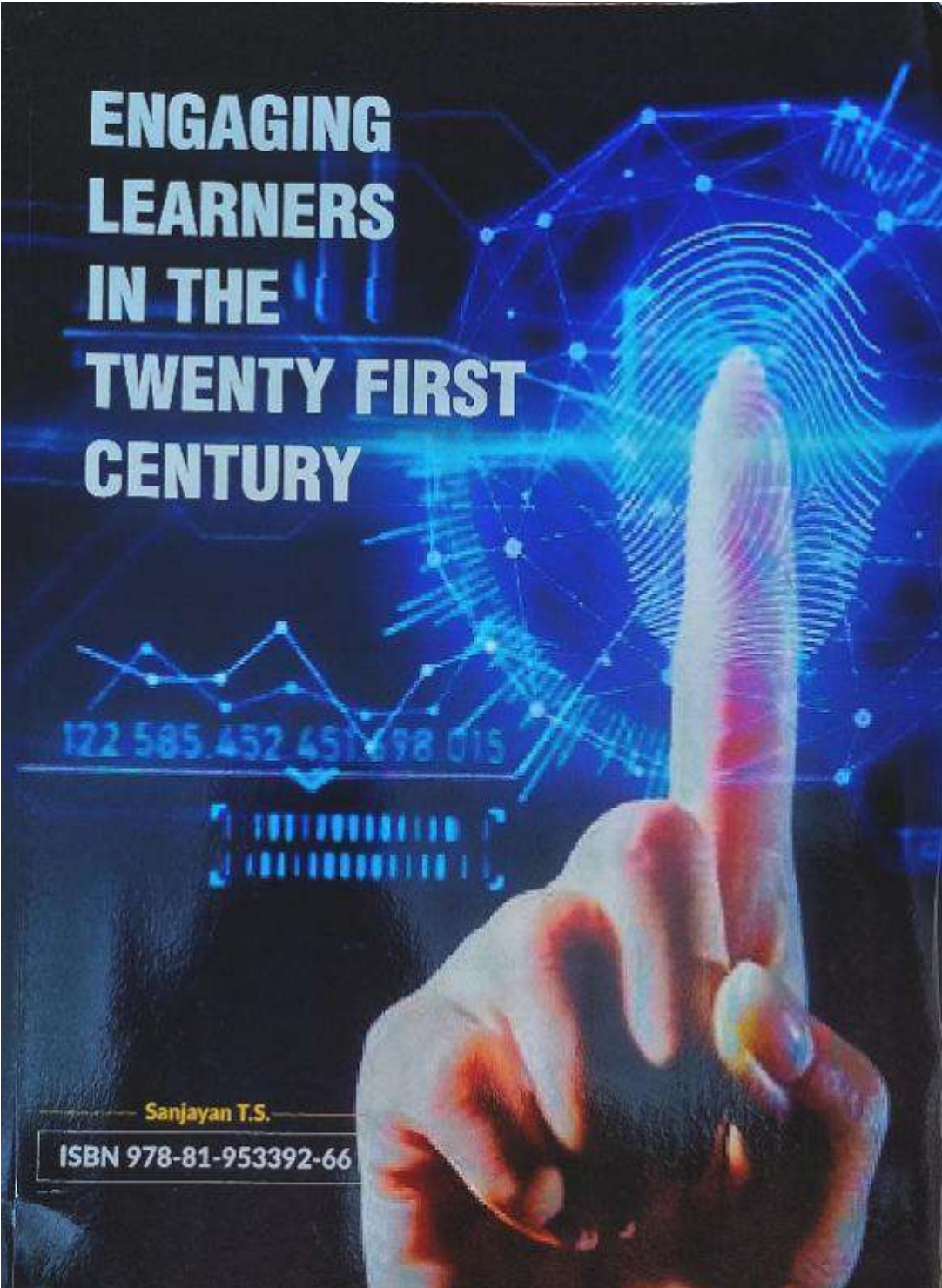


Xpress publishing
AN IMPRINT OF NOTION PRESS

Price Rs 575.00
ISBN 979-888629608-2



9 798886 296082



**ENGAGING
LEARNERS
IN THE
TWENTY FIRST
CENTURY**

Sanjayan T.S.

ISBN 978-81-953392-66

14.	Digital Learning: The need of 21st century Learners <i>Dr. Rashmi Singh</i>	69
15.	Geography Education through HI-Tech tools in the 21st century <i>Dr. ChithraLekha K.G</i>	72
16.	Upsurge of Digital Education: Creating an impact in Academic Sector <i>Dr. Reshmi</i>	76
17.	Inclusive Education in 21st century <i>Dr. Nishma Singh & Ms. Saniya Khan</i>	79
18.	Non-Formal Education in Indian context <i>Ms. Susmita Mondal & Mr. Jugantar Mishra</i>	84
19.	Phygital Learning: Engaging Learners with sophisticated Teaching Methods <i>Mr. Shaikh Javed</i>	89
20.	Do L2 Learners motivate to learn via online? A study of SriLankan L2 Learners <i>Dr. Prasangani K.S.N</i>	93
21.	Pursuing the 21st century through strengthening literacy skill <i>Dr. Ahmad Al Yakin</i>	99
22.	Education after Pandemic <i>Dr. Cap.Somya Sharma</i>	103
23.	Rural finances and self help groups in Rural India <i>Dr. Yogita Mandole</i>	106
24.	The Role of promoting innovative teaching and learning techniques for person with Disabilities in inclusive Education classroom settings <i>Fr. Baiju Thomas</i>	110
25.	The 21st century Education between Disruption and Eclecticism <i>Dr. Abdual Wafi</i>	116
26.	Digital Curation: fostering Educators and Learners in 21st century. <i>Mrs. Neelufar Farash</i>	121
27.	21st century skills through life long learning: Cooperative Learning Skills <i>Mr. Khushali U. Prabhu</i>	126

Upsurge Of Digital Education: Creating An Impact In Academic Sector

Dr. Reshmi S

Assistant Professor of English, MES Asnabi College, P. Vemballur
Kodungallur, Kerala

Introduction:

Digital age is engrossed with the rapid pace of technology development. Education has adopted and adapted technology over the years. The impact of technological intervention in education is a paradigm shift which brings forth a virtual classroom space with the support of Learning Management Systems. Online learning integrates different facets of media like text, graphics, audio, video, animation and simulations. Education must contextualize the need of the age and the gradual shift from classroom- oriented teaching to digitally- oriented platforms enabled technology- based learning.

The landscape of digital learning is evolving with a rapid increase in digital education programs around the world. Technology based education prepares students for work force and high-quality education. Despite the potential benefits of digital learning, many students lack access to technologies creating a digital divide. Effective digital learning is channelised through high-speed internet, technological devices, online classes and software for personalized learning. The report from the Asian Development Bank (2009) provides three rationales that support digital learning: the knowledge economy rationale, which emphasizes education's role in preparing students for the workforce; the pedagogical rationale which prioritizes the optimization of student achievement and educator effectiveness; and the equitable access rationale, which focuses on providing all children with a high-quality education.

Integrating Technology in Teaching:

The credibility of new technology and communication platforms integrate online component into educational scenario. This digital panorama is supported by Information Communication Technologies (ICT), cheap telecommunications, the existence of open resources, digital libraries and the spread of access points. Digital education accommodates increasing number of enrolments, new audiences, diversification of student population and promotion of lifelong learning. The globalized access of digital technology increase "either the access to higher education of populations that would be otherwise excluded, or increasing the range of people who might be served by elite institutions" (Larreameydy-Joerns&Leinhardt, 2006, p. 568). Online paradigm also leads to the transformation of educational environment which is more inclusive and triggers professional development. In the digital era, faculties need to be competent to handle online teaching and employment of adequate technologies.

The miraculous leap of technology is visualized in almost all walks of life whether it be economy, health, science and education. The educational institutions have become instrumental in making huge investments in the field of technology to enhance learning. Powerpoint presentations, multiple projectors and screens, clickers for recording student responses, 'back-chat' channels on Twitter, enable students to comment on lectures. The transmission of information has been accelerated with the implementation of digital education and it also channelises knowledge management of the students through finding, analysing, evaluating, sharing and applying knowledge under the direction of a skilled subject expert. Digital tools increased the scope of project-based learning, collaborative learning and experiential learning.

Blended learning or hybrid learning ensures technology enhanced learning which allows students to learn online and to improve independent learning skills. This mode of learning demands catalyst for change and is in stark contrast to formal classroom model with students facing the instructor and writing board. The present-day learning environment is guided by three key elements like pedagogy, technology and space. The evolving and diversified teaching methods and learning preferences should be imbibed by the instructors who teach a generation of 'digital-natives'. Vertical surfaces to display content, multiple projection surfaces and whiteboards in various configurations are all important classroom considerations. The constructivist pedagogies in digital education replaces the role of instructor from that of a sage to a guide. Technologies and new modes of delivery open up innovative ways and methods in teaching. In the digital age, the instructors communicate with students through synchronous communication media- real time collaborative online teaching(voice phone calls, text and

ISBN No.: 978-93-83790-41-4

e-Book

Plant Biodiversity and Environment Conservation

(May 20-21, 2021)



Editors

Dr. Anjana Bhatia

Dr. Nitika Kapoor

Co-Editor

Dr. Shuchi Sharma

**UNIMAX PUBLICATIONS
INDIA**

33.	EMS Induced Variations On Quantitative Traits In <i>Linum usitatissimum</i> L. Var. Shekhar.	Nidhi Sharma, Sana Choudhary, Neha Naaz , Nazarul Hasan	476-491
34.	Phytochemical Analysis Of Medical Plant <i>Alternanthera sessilis</i> (L)	R. Nivetha ,S N Ambili, P L Drishya, A Iren Amuth, R Medo Merina	492-500
35.	Phytoplankton Diversity of Katangi Dam, Gondia Dist., Maharashtra.	Prashant C. Shahare, Dhote Bandhu	501-507
36.	HPTLC fingerprinting and screening of antimicrobial activity of <i>Pongamia pinnata pierre.</i>	Rajani Shirsat, Dr.Ajit Kengar, Dr.Aruna Rai	505-523
37.	Use of Vermicompost as an Effective Biocontrol agent	Rakesh Joshi, Bhawana Sohal, Rakesh Kumar, Yadvinder Singh, Rahil Dutta, Deachen Angmo	524-532
38.	Agriculture General Applications: a Study of Digital Imaging Processing	G.Ramachandran , S. kannan	533-542
39.	Economic Fruitfulness of Polyhouse and Open Field Crops in Nashik District	Ramakant.K. Patil	543-547
40.	Diversity Assessment of Grasses in Southern Area of Jabalpur District, Madhya Pradesh	Ramdeen Bhalavi, Shikha Bansal, R.K. Verma, R.P. Mishra	548-557
41.	Perils of Climate Change on Freshwater Ecosystem: Need for Immediate Action	Ria Ghosh, Sandeepa Chowdhury, Puja Ray	558-566
42.	Studies on the Plants Used in the Treatment of Cuts and Wounds from Sindhudurg District of Maharashtra State	S. A. Apate, A. A. Kengar	567-571
43.	Protective Efficacy of Dietary Naringenin Against Cadmium Induced Toxicity	Sakshi Verma , Smriti Batoye	572-583
44.	Floristic Survey on Freshwater Algae from Keladi Pond, Shivamogga District, Karnataka	Savithra Nand, S G Malammanavar	584-596
45.	Study of Antibacterial activity of <i>Camellia sinensis</i> against disease causing bacterial strains and its Phytochemical analysis	S Shalini, M Parvathy	597- 606
46.	Plant Growth Promoting Rhizobacteria (PGPR) and their Mechanisms of Action for Enhancing Crop Productivity	Shanu Khandelval, S.R. Maloo, Ekta Joshi, G.L.Sharma	607-636
47.	Medicinal Orchids Of Shimla Hills, their Uses and Conservation Status	Shaveta Chauhan	637-647
48.	Conservation of Threatened Orchid Species <i>Vanda wightii</i> Rchb.f. In Karnataka	Shreyas Betageri , Prashant Karadakatti	648-655
49.	Metabolism of Indole Acetic Acid within the Root Nodules and Changes of Edaphic Factors in the Rhizospheric Area of <i>Vigna radiata</i>	Sisir Ghosh	656-664
50.	Leaf Based Phenetic Analysis on the Selected Taxa from the Genus <i>Ficus</i> L (Moraceae) from Southern Western Ghats	S Nair Sreehari, K H Amitha Bachan , P J Ebin	665-672
51.	Diversity and Seasonal Fluctuation of Phytoplankton in a Fresh Water Lentic Water	Sudhrita Pore, Subhabrata Ghosh, Jai Prakash Keshri	673-679

Leaf Based Phenetic Analysis On The Selected Taxa From The Genus *Ficus* L (Moraceae) From Southern Western Ghats

¹Sreehari S Nair, ²Amitha Bachan K H and ³Ebin P J

¹Research Scholar, ²Assistant Professor and Research Guide, Research and P G Department of Botany, MES Asmabi College, P. Vemballur, Thrissur, Kerala, 680671.

³Assistant Professor, Department of Botany, Sacred Heart College, Thevara, Cochin, Kerala, 682013.

* Email of corresponding author: harificus@gmail.com

ABSTRACT

The present work is a leaf based phenetic study on the selected members of the genus *Ficus* from Southern Western Ghats. Sixteen morphological characters of the leaf considering 102-character states were studied. The species were collected and careful morphological observations were made. The morphological characters were standardised into numerical format with the presence or absence of each character state represented with 1 and 0 respectively. The data was analysed using PAST Ver 2 Software and a dendrogram was obtained. The species were aligned based on the similarities on leaf morphology. The dendrogram obtained showed that the leaf morphology-based clustering is not exactly similar to the current accepted sub generic classification of *Ficus*. But the clustering was almost similar to a habit-based classification of *Ficus* into plants with cauliflorous inflorescence, stranglers, epiphytic & hemi epiphytic trees and independent trees. Thus, it implies that the leaf morphology-based clustering in *Ficus* is similar to its habit pattern.

Key words: *Ficus*, Leaf morphology, Phenetic study.

INTRODUCTION

The genus *Ficus* L. (Moraceae) is one among the most abundant, complex and diverse angiosperms. The hypanthodium inflorescence, minute flowers and morphological complexity make the genera problematic. They are commonly called as 'Fig' plants. About 750 species of *Ficus* is distributed in the world, chiefly in the tropics and sub tropics (Corner, 1965; Berg & Corner, 2005). India has a diversity of 115 taxa of *Ficus*, majority of them distributed in the North Eastern regions (Chaudhary *et al.*, 2012). Around 40 species of *Ficus* have been reported from the Western Ghats region. According to the current classification, the genus is divided into six subgenera based on overall morphological and sexual features (Berg, 2003).

साहित्यिक संवाद

प्रो. के. वनजा अभिनन्दन ग्रन्थ

एन. मोहनन
प्रधान संपादक

सजी आर. कुरुप
संपादक

श्यामकुमार एस.
सह-संपादक





वैधानिक चेतावनी

पुस्तक के किसी भी अंश के प्रकाशन, फोटोकॉपी, इलेक्ट्रॉनिक माध्यमों में उपयोग के लिए लेखक व प्रकाशक श्री लिखित अनुमति आवश्यक है। पुस्तक में प्रकाशित आलेख/आलेखों के सर्वाधिकार मूल रचनाकार/रचनाकारों के पास सुरक्षित हैं। पुस्तक में व्यक्त विचार पूर्णतया लेखक/लेखकों अथवा सम्पादक/सम्पादकों के हैं। यह जरूरी नहीं है कि प्रकाशक इन विचारों से पूर्ण या आंशिक रूप से सहमत रहे। किसी भी विवाद के लिए न्यायालय दिल्ली ही माल्य होगा।

© प्रधान संपादक

प्रथम संस्करण : 2021

ISBN 978-93-89341-70-6

प्रकाशक

अनुज्ञा बुक्स

1/10206, लेन नं. 1E, वेस्ट गोरख पार्क, शाहदरा, दिल्ली-110 032

e-mail : anuugyabooks@gmail.com • salesanuugyabooks@gmail.com

फोन : 011-22825424, 09350809192

www : anuugyabooks.com

मूल्य : 1900 रुपये

आवरण

मोना-किशन सिंह

मुद्रक

सौरभ प्रिन्टर्स प्रा. लि.

SAHITYIK SAMVAD

A Festschrift in Honour of Prof. K. Vanaja edited by Prof. N. Mohanan,
Prof. Saji R. Kurup & Prof. Shyamkumar S.

पोस्ट बॉक्स नं. 203 नाला सोपारा में ट्रांसजेण्डर विमर्श

संजीव कुमार के.

“डर, हिंकारत, अछूता
हीन, उपेक्षित....
देखकर हमें कुछ यूँ,
है जहाँ सारा, नजरें फेर लेता....
क्या खूब सूझी, तुझे भी ऐ खुदा,
इक कहर है तेरा यह भी, 'अधूरी देह' देना....
-गीतिका वेदिका की कृति 'अधूरी देह' से

इक्कीसवीं सदी विमर्शों की सदी है। चाहे वह नारी विमर्श हो, दलित विमर्श हो, या आदिवासी विमर्श हो। इन विमर्शों के समान्तर एक नया विमर्श अपनी उपस्थिति दर्जा कर रहा है— वह है जेण्डर विमर्श। विश्व में दो लिंग के अलावा एक अन्य प्रजाति के लोग रहते हैं, जो न ही पुरुष के श्रेणी में आते हैं और न ही स्त्री श्रेणी के अन्तर्गत। जिन्हें हम हिजड़ा, जेण्डर, नपुंसक, खोजा आदि उपनामों से सम्बोधित करते हैं।

चित्रा मुद्गल द्वारा लिखित 'पोस्ट बॉक्स नं.203 नाला सोपारा' (2016) उपन्यास में एक तृतीय लिंगी बालक की वेदना और संवेदना को बताया गया है। यह उपन्यास पत्रकारिता शैली में लिखा गया है। पूरा उपन्यास माँ-बेटे के बीच के संवाद पत्र के माध्यम से है। विनोद उर्फ विन्नी उर्फ विमली जन्म से नपुंसकलिंग है, उनके घरवाले समाज के भय के कारण उसे हिजड़ों के हाथ में सौंप देता है। माँ घरवालों से छुपकर पोस्ट बॉक्स द्वारा आये पत्र के माध्यम से अपने बच्चे के साथ बात करती है। विन्नी कई शिकायत अपनी माँ से करती है।— “तूने, मेरी बा, तूने और पप्पा ने मिलकर मुझे कसाइयों के हाथ मासूम बकरी सा सौंप दिया। मेरी सुरक्षा के लिए कोई कानूनी कार्रवाई क्यों नहीं की? मनसुख भाई जैसे पुलिस अधीक्षक पप्पा के गहरे दोस्त के रहते हुए? वो अपने आप मुझे बचाने के लिए तो आ नहीं सकते थे। मेरे आंगिक दोष की बात पप्पा ने उनसे बाँटी जो नहीं होगी। वरना वह मुझे बचाना जरूर आ जाते”। विनोद के मन में दुनिया को लेकर ही नहीं बल्कि खुद के बारे में भी बहुत अधिक सवाल हैं। वह अपने माँ से पूछता है—“मंजुल के गोद में सम्भालते हुए मैंने तुझसे प्रश्न किया था, 'मेरे नुनू क्यों नहीं है, बा?' तो तूने मुझे बहलाया था। 'बच्चे के जन्मते ही आटे का नुनू बनाकर लगाना पड़ता है। नर्स भूल गयी तूझे लगाना। लगवा देंगे तुझे भी”²। विनोद की ओर से लिखी चिट्ठियों के माध्यम से हिजड़े जीवन की अनगिनत त्रासदियों को प्रस्तुत कर गम्भीर संवेदनशीलता का परिचय देती है चित्रा जी।

विन्नी के माँ-बाप ने उसे कई डॉक्टरों को दिखाया था। लेकिन किसीसे कोई लाभ नहीं

उदयप्रकाश की कहानियाँ— उत्तराधुनिक सन्दर्भ में	—सुमन्यपन जी. के.	529
भगवानदास कोरवाण द्वारा 'शकुंतिका' का समीक्षात्मक अध्ययन	—राधिका पी.	534
समकालीन हिन्दी उपन्यास में अभिव्यक्त आदिवासी आन्दोलन	—इब्राहिमकुटी पी.एच	537
आदिवासी जीवन की सूक्ष्म आलाप	—हेरमन पी.जे	543
कबी का राजनैतिक धारण	—हेना	548
समकालीन स्त्री कविता हिन्दी उपन्यासों में परिलुईया	—वीणा मैली	556
'दो आंखों' उपन्यास में विद्वान समाज के वास्तविक जीवन का चित्रण	—पी. के. प्रतिभा	559
दलित कविता—असहजकृपा से; प्रति भाववीरता का विद्रोह	—राजेश्वर चट्टिन्जारे	
	करमल	563
	—जे. नारायणी	566
	—ए. के. बिन्दु	572
समकालीन हिन्दी कविता में भूमकलीकरण		
सर्वमान का यथार्थ, चांदी के सन्ध्या		
दशवीरयो सदा की कविताओं में प्रति-जन्तित जन्तित नामी चिन्तन :	—अलिता पी.एल.	578
रुशीला डाकभोरे की कविताओं के विशेष सन्दर्भ में	—विन्दु एम.जी	582
"समर"— चांदी के संस्मरण जीवन का दूसरा नाम	—सनी आर कुरूप	587
निर्वासन बनाम आत्मनिरास	—मनीज एन.	593
श्रीम औसनीबाला सर-उपन्यास में चित्रित राजनैतिक यथार्थ	—विजयकुमार ए. आर.	596
जब कविता साफक चन्त्र बनता है	—दीपक के. आर.	600
बी. टी. की कहानियों में चित्रित स्त्री-जीवन		
केरल का दलित जनजागरण : सत्यवाचक उपन्यास	—राजन टी. के.	606
'सातकप्रथम' के विशेष सन्दर्भ में	—सीमा चन्दन	613
लेखक की मृत्यु और उत्तर-आधुनिक आलोचना की अवधारणा	—मेरली. के. पुनूप	617
संघर्ष श्री दासगुण का दरतावेज: 'ए जिन्दगी तुझे सलाम'	—प्रदीप श्री. पी	623
"आज आप" कविता और कविता का खुलासा	—लेजा पी जे	625
समकालीन आदिवासी कविता और अस्तित्व बोध	—जीविस डोम	630
हिन्दी कहानियों में आम आदमी	—श्यामकुमार एस	650
आदिवासी कविता में पारिस्थितिक बोध	—संजीव कुमार के	656
पोस्ट-सोवियत नं. 203 वाला बीपारा में ट्रांसजेण्डर विमर्श	—वीणा जी.	659
दलित चेतना और दलित चांदी	—सीता कुरियन	663
समकालीन हिन्दी कविता में ट्रांसजेण्डर	—रुबी एल्सा जैकब	669
हिन्दी एवं अंग्रेजी के विभाजन साहित्य में स्त्री	—तेरेसा टिनसी डी. जी.	682
एक कहानी यह भी में अभिव्यक्त चांदी जीवन		

उदयप्रकाश की कहानियाँ— उत्तराधुनिक सन्दर्भ में	—सुब्रह्मण्यन वी. के.	529
भगवानदास मोरवाल कृत 'शकुंतिका' का समीक्षात्मक अध्ययन	—राधिका पी.	534
समकालीन हिन्दी उपन्यास में अभिव्यक्त आदिवासी आन्दोलन	—इब्राहिमकुट्टी पी.एच	537
आदिवासी जीवन की गूँजती आवाज़	—हेरमन पी.जे	543
स्त्री का राजनैतिक पहलू	—हेना	548
समकालीन स्त्री केन्द्रित हिन्दी उपन्यासों में घरेलू हिंसा	—बीना पैली	556
'मैं पायल' उपन्यास में किन्नर समाज के वास्तविक जीवन का चित्रण	—पी. के. प्रतिभा	559
दलित कविता—अमानवीयता के प्रति मानवीयता का विद्रोह	—राजेन्द्रन पटिञ्जारे करम्मल	563
समकालीन हिन्दी कविता में भूमंडलीकरण	—जे. वासन्ती	566
वर्तमान का यथार्थ: यादों के सहयात्री	—ए. के. विन्दु	572
इक्कीसवीं सदी की कविताओं में प्रतिध्वनित दलित नारी चिन्तन :		
मुशीला डाकभौरे की कविताओं के विशेष सन्दर्भ में	—अनिता पी.एल.	578
"समर"— नारी के संघर्षमय जीवन का दूसरा नाम	—विन्दु एम.जी	582
निर्वासन बनाम आत्मनिरास	—सजी आर कुरुप	587
पाँच आँगनोवाला घर-उपन्यास में चित्रित राजनैतिक यथार्थ	—मनोज एन.	593
जब कविता मापक यन्त्र बनता है	—विजयकुमार ए. आर.	596
वी. टी. की कहानियों में चित्रित स्त्री-जीवन	—दीपक के. आर.	600
केरल का दलित नवजागरण : मलयालम उपन्यास		
'घातकवधम' के विशेष सन्दर्भ में	—राजन टी. के.	606
लेखक की मृत्यु और उत्तर-आधुनिक आलोचना की अवधारणा	—सौमा चन्द्रन	612
संघर्ष भरी दास्तान का दस्तावेज: 'ए जिन्दगी तुझे सलाम'	—मेरली. के. पुन्नूस	617
"जब आप" कविता और कवित्त का खुलासा	—प्रदीप सी. पी	623
समकालीन आदिवासी कविता और अस्तित्व बोध	—लैजा पी जे	625
हिन्दी कहानियों में आम आदमी	—जोयिस टोम	630
आदिवासी कविता में पारिस्थितिक बोध	—श्यामकुमार एस	650
पोस्ट बॉक्स नं. 203 नाला सोपारा में ट्रांसजेण्डर विमर्श	—संजीव कुमार. के	656
दलित चेतना और दलित नारी	—वीणा.जे.	659
समकालीन हिन्दी कविता में ट्रांसजेण्डर	—सीना कुरियन	663
हिन्दी एवं अँग्रेज़ी के विभाजन साहित्य में स्त्री	—रूबी एल्सा जेकब	669
एक कहानी यह भी में अभिव्यक्त नारी जीवन	—तेरेसा टिनसी टी. जी.	682



ALAGAPPA GOVERNMENT ARTS COLLEGE

KARAIKUDI, TAMIL NADU, INDIA.

TRENDS IN ENGLISH LITERATURE

TEL-2022

In commemoration of Platinum Jubilee Celebrations 1947- 2022

8th April 2022

Edited By

Dr. T.K. Vedharaja



About the Conference

Alagappa Government Arts College celebrates 75th anniversary. In this platinum Jubilee year, in memory of the founder of the college, Alagappa Chettiyar, who is a voracious reader himself, it is decided to conduct a National level conference on a title that could bring in various areas of knowledge. Hence, the title Trends in English Literature became the title of the conference in commemoration of the Platinum Jubilee Celebration (1947- 2022) of the college. The purpose of this conference is to decipher modern developments in English literature to trace the antecedents and the present state of literature to refresh about the recent literary themes, theories and approaches.

Editorial Board

Editorial Committee

Editor-in-Chief

Dr. T.K. Vedharaja, Assistant Professor of English,

Editorial Members

Dr. V. Nagarajan, Head & Associate Professor of English,

Dr. V. R. Jeyasala, Assistant Professor of English

Mrs. A. Deepa Rani, Assistant Professor of English

Dr. R. Rajan Ganapathy, Assistant Professor of English

Dr. A. Sundari, Assistant Professor of English

Dr. M. Shamuna Jerrin Araselvi, Assistant Professor of English

Dr. N. Kavidha, Assistant Professor of English

Mrs. S. Sharmila, Assistant Professor of English

Dr. G. Somasundaram, Assistant Professor of English

Mr. B. Senthil Kumar, Guest Lecturer in English

Dr. K. Panchatcharam, Guest Lecturer in English

Mrs. R. Kalavani, Guest Lecturer in English

Ms. S. Dhivini, Guest Lecturer in English

Ms. Silambu Nithya, Guest Lecturer in English



TITLE VERSO

Title	:	TRENDS IN ENGLISH LITERATURE
Editor-in-Chief	:	Dr. T.K. Vedharaja
Event	:	National Conference
Month	:	8 th April
Year	:	2022
Pages	:	250
Price	:	350
Book Type	:	A5, Paperback
ISBN Provider	:	Pandian Educational Trust
ISBN	:	978-93-91115-79-1

Printer : **Jayalakshmi Publications,**
140, VPM Towers,
TPK Main Road, Palanganatham,
Madurai – 3

©2022 All rights reserved by the Editor.

This book or part thereof should not be reproduced in any form without the written permission of the Editor.

Indexing Details: Google Scholar, Internet Archive

25	Study of Ecological Milieu in the Select Novels of Jonathan Franzen	109
	S. Murugesan	
26	A Study on Aravind Adiga's "The White Tiger"	111
	M.Niranjana & M.Robina	
27	Hegemony in "Vanara"	113
	Mrs. V. Packialakshmi & Dr. G. Somasundaram	
28	Study of Myth and History in the Ashwin Sanghi's Novel <i>Chanakya's Chant</i>	117
	Parkavi & Dr. P. Madhan	
29	Six Word Novels: Their Evolution and Exploitation in Language Teaching	120
	Dr. S. Parvathavarthini	
30	A Postcolonial Analysis of J.M. Coetzee's <i>Life and Times of Michael K</i>	125
	A. Pavithra	
31	Cultural Impact in Kiran Desai's 'The Inheritance of Loss'	129
	Ms. S. Pramma Lakshmi	
32	Reader Response Theory: A Critical Study	131
	Dr. R. Rajan Ganapathy	
33	Portrayal of Injustices in Aravind Adiga's <i>The White Tiger</i>	134
	G. Rajkumar	
34	Feminist Perspective in the Novel <i>Fasting, Feasting</i> by Anita Desai	138
	K. Ramnath	
35	Ecofeminist Images in Jayakanthan's <i>Sila Nerangall Sila Manithargal</i> and Anita Nair's <i>Ladies Coupe</i>	143
	Dr. R. Ravindran & Dr. T. K.Vedharaja	
36	Flash Fictions: Creative and Innovative Trends in New Literature	148
	Sabitha	
37	Postcolonial Aspects in Indian Women Novelist	152
	M. Saranya	

Flash Fictions: Creative and Innovative Trends in New Literature

Sabitha M.M, Assistant Professor, PG Dept of English,
Mes Asnabi College, P. Vembalhar, Kodungallur, Thrissur- 680671

Abstract

In this modern world as people are busy with their day to day work-life endeavours, it will be quite difficult for them to find time to sit and read a lengthy novel or novella within a stipulated time limit. They may discard their reading habit in their hazardous work schedule. Modern citizens would like everything to be handy and portable and use every bit of time in their own comfortable way. This might be the reason that these tech savvy beings, especially those who don't want to give up their reading habit, prefer short fictions or micro fictions rather than lengthy novels or books. They can read these short fictions within a short period of time and can enjoy every nuances of storytelling. Flash fictions were in vogue in the early 19th century, but they came to be prominent recently in the 21st century due to the advancement and development of social media culture. This paper intends to elucidate the innovation and expansion of the genres of flash fictions and micro fictions and to analyse the narrative techniques by exploring some of the popular flash fictions.

Keywords: FlashFiction, Microfiction, Sixword fiction, Characteristics, Narrative techniques.

Introduction

Flash fiction is a type of prose narrative, which takes itself the form of a brief, self-contained story. Its word count ranges from 5 to 1000 words on average and can go up to the maximum of 1500 words. It's also known as short shorts, nano-tale or micro story, and the form of the story is unique as it focuses on movement rather than focusing on plot or character development. Each sentence or each word peels back a layer and progresses the story. Look at these six words: *For sale: baby shoes, never worn.* This is a premier example of the fiction's shortest form. In flash fiction, where twist endings and enigmatic last lines are standard practice, just six words can allude to the tragic death of a child. This six words fiction can be attributed to Earnest Hemingway. He was a prolific practitioner of the form. Lets look at an example of his work to see what makes short shorts so engaging.

They shot the six cabinet ministers at half past six in the morning against the wall of a hospital. There were pools of water in the courtyard. There were wet dead leaves on the paving of the courtyard. It rained hard. All the shutters of the hospital were nailed shut. One of the ministers was sick with typhoid. Two soldiers carried him downstairs and out into the rain. They tried to hold him up against the wall but he sat down in a puddle of water. The other five stood very quietly against the wall. Finally the officer told the soldiers it was no good trying to make him stand up. When they fired the first volley he was sitting down in the water with his head on his knees.

"Chapter V", a vignette from Hemingway's collection *In Our Time*, follows the form of great flash fiction. With a straightforward beginning and violent clasp that summarizes the

साहित्य के

पर्यावरण विमर्श



डॉ. रंजित एम. • डॉ. सूर्या बोस



डॉ. रंजित एम.

जन्म : तलशशेरी, कण्णूर (जिला), केरल
पिता : सी.एम. माधवन
माता : के.के. पद्मजा
पत्नी : डॉ. सूर्या बोस
शिक्षा : एम.ए. (हिन्दी), एम.फिल (हिन्दी)
(कालिकट वि.वि.); बी.एड (कण्णूर
वि.वि.); पी.जी. डिप्लोमा इन ट्रांसलेशन
(कालिकट वि.वि.); डिप्लोमा इन हिन्दी
(केन्द्रीय हिन्दी निदेशालय, नई दिल्ली);
पी-एच.डी. (कालिकट वि.वि.)

प्रकाशन : 1. अज्ञेय के तारसप्तक
2. हिन्दी कथा साहित्य में नारी
3. हिन्दी सूफी काव्यों में प्रकृति-चित्रण
4. प्रतिष्ठित पत्र-पत्रिकाओं में कविता,
कहानी, लेख, यात्रावृत्त।

सम्प्रति : अध्यक्ष, हिन्दी विभाग, एम.ई.एस. अस्माबी
कॉलेज, कोडुङ्गल्लूर, त्रिशूर (जिला),
केरल

संपर्क : उषस (घर) तुक्करिप्पूर पी.ओ., कासरगोड
जिला-671310 (केरल)
मोबाईल : 09387441300

प्रकाशक

जवाहर पुस्तकालय

सदर बाजार, मधुरा-281001 (उ.प्र.)

ई-मेल : jawahar.pustakalaya@gmail.com

ISBN : 978-81-950289-7-9



9 788195 1028979

ISBN : 978-81-946862-3-1

© : सर्वाधिकार सुरक्षित

प्रकाशक : गोविन्द पच्चीरी

जवाहर पुस्तकालय

हिन्दी पुस्तक प्रकाशक एवं वितरक

सदर बाजार, मथुरा-281001 (उ.प्र.)

दूरभाष : 09897000951

ई-मेल : jawahar.pustakalaya@gmail.com

मूल्य : 250.00 (दो सौ पचास रुपये मात्र)

प्रथम संस्करण : 2020

आवरण : विनीत शर्मा

शब्द-संयोजन : गीता डिजाइनिंग ग्रुप, दिल्ली-110094

मो. : 09350345268

मुद्रक : जय भारत प्रेस, नवीन शाहदरा, दिल्ली-110032

Reimagining Space and Literature

Edited by

SARAN S.

Contributors

1. "Post Humanist Epistemology: Some Postulates"-*Dr. Fed Mathew, Associate Professor of English, Mar Augusthinose College, Ramapuram.
2. "Transgressive Interstices and Syncretism Elements: Selective Study of Anita Nair, Jhumpa Lahiri and Manju Kapur" - *Rahmathulla Ottakath, HSA English SOHSS Areekode, Malappuram, Kerala.
3. "Electronic Literature: A Review of the Heterotopic Space in Posthuman Reading"- *Darsana A., Asst. Prof. Don Bosco College, Kottiyam. ** Wilson K. D., Research Scholar, Christ University, Bangalore.
4. "What is Wrong with Our Upbringing? Objectifying Women in Indian Cinema and its Impact on Married Life: A Self Study" - *Najma Nazeer, Assistant Professor, Department of Mass Communication, MES Asmabi College, Thrissur.
5. "A Quest for Climate Justice: An Ecocritical Reading of Disney's *Frozen II*" - *Riya James Assistant Professor, Department of English, Mar Augusthinose College, Ramapuram.
6. "The Alienation Effect in Satish Alekar's *The Dread Departure*" - *Phadatre B. D., Research Student, Shivaji University Kolhapur.
7. "A Psychological Perspective and Familial Ligature: A Study of R. J. Palacio's *Wonder*"- *Tresa Ouseph, Assistant Professor, K. N. Raj Study Center, M. G. University, Kottayam, Kerala.
8. "Discontinuity in Sentence Construction While Writing English Among High School Students"- *Swarna Anna

CHAPTER IV

WHAT IS WRONG WITH OUR UPBRINGING? OBJECTIFYING WOMEN IN INDIAN CINEMA AND ITS IMPACT ON MARRIED LIFE: A SELF STUDY

Najma Nazeer

Assistant Professor

Department of Mass Communication

MES Asmabi College, Thrissur, Kerala.

Abstract

Traditionally, social norms have prescribed certain genders for men and women. Men are generally considered to be dominant, masculine, and independent, while women are portrayed as weak, sensitive, and dependent. In contemporary society, women are free to adopt more active sex, from what is considered "masculine," to what is considered more "androgynous," to the more stereotypical female roles. Some women, however, continue to adopt traditional gender roles where self-objectivity exists. This paper will analyze major things wrong with our upbringing and the influences of Indian cinema on objectifying women in married life.

Keywords: Objectification, feminism, marriage, and self-love.

• • •

The book 'Reimagining Space and Literature' seeks to provide an overview of the key theoretical approaches to spatial studies, as well as their most important inquiries and methodological implications. Our fundamental goal is to present a comprehensive analysis that includes classical geo-critical perspectives as well as contemporary transnational, quantitative, or digital studies that have impacted our understanding of space and its literary functions. This colloquium aims to bring together the fields of classical (Greco-Roman) and modern literature by focusing on space in literary works. We hope that this meeting will cross-fertilize (the study of space in) both domains by sparking discussion on similarities, continuities, and differences in the function of literary space. To this end, we focus in particular on four themes like Surveillance studies, Environmental Post-Humanism cartoons, and graphic studies. When speaking of space in narratology and other fields, a distinction should be made between literal and metaphorical uses of the concept. As an a-priori form of intuition, space is particularly difficult to capture in its literal sense.

Edited by
Saran S.

Edit Academic
July 2021

Price: Rs 700.00
ISBN: 978-1-63974-569-2



9 781639 745692

ECO-TOURISM IN KERALA

A GENERAL FOCUS ON COVID-19 AND IT'S
IMPACT ON THENMALA TOURISM



Dr. Haseena.V.A

MANIECH
Publications

MANTECH BOOKS

Published by:

Mantech Publications Pvt. Ltd.

Registered Office: 203, Plot No-45, Gyan khand-2, Indrapuram, Ghaziabad,
U.P.-201014, Delhi/NCR

Contact No: 7838047803, 8506003804

Corporate Office: 402, Plot No.-127, Gyan khand-1, Indrapuram, Ghaziabad,
U.P.-201014, Delhi/NCR

Contact No: 7838047803, 8506003804

Email: info@mantechpublications.com, mantechpublications@gmail.com

Website: www.mantechpublications.com

First Edition: 2021

ISBN: 978-81-948050-6-9

Copyright © MANTECH Publications Pvt. Ltd. 2021

All Rights Reserved

Price: Rs. 390/-

In this book, Mantech Publications is disseminating information gathered from sources that are supposed to be trustworthy. However, neither the authors nor Mantech Publications vouch for working precision or practical applicability of the published information. Therefore, neither the publisher nor the authors take responsibility for any errors, oversight, or losses resulting from application of the published information. This book is published for spreading information but neither the authors nor Mantech Publications are offering any kind of engineering services or operating in any other professional capacity. Those seeking such services are advised to hire bona fide professionals.

Printed at:

LaxmanPrinto Graphics,
Sector-10, Noida, U.P.

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be resold, hired out, or otherwise circulated without the publisher's prior consent in any form or cover other than that in which it is published and without a similar condition including the condition being imposed on the subsequent purchaser.

Eco-Tourism in Kerala

A General Focus on Covid-19 and its Impact on Thenmala Tourism

Dr. Haseena. V. A.

Assistant Professor

Department of Economics

MES Kalladi College, Mannarkkad, Palakkad,

Kerala, Pin- 678582

MANTECH
Publications

ManTech Publications Pvt. Ltd.

Ghaziabad, Delhi/NCR

SIGNPOST

**Evolving Poetic Utterance:
New Frontiers and Visual Signatures**



**P.G. DEPARTMENT OF ENGLISH
NAIPUNNYA INSTITUTE OF MANAGEMENT AND
INFORMATION TECHNOLOGY
PONGAM, KORATTY**

Language: English

Evolving Poetic Utterance: New Frontiers and Visual Signatures

Collection of essays edited by: Grace K. Benny, Greena Joseph and Dr. Tushar Kumar

© Authors

Publication year: 2022

Cover design: SM Press

Layout: SM Press

Printing: SM Press

Publishing

Association for Cultural and Scientific Research

Thrissur- 680689

Circulation

P.G. Department of English

Naipunnya Institute of Management and Information Technology,

Pongan, Koratty

Thrissur, Kerala, India, Pin 680308

ISBN: 978-81-952711-2-2

**Presenting Man and Nature in the Light of Ecocriticism in the
Malayalam movie, *Melepparambil Ann Veedu***

Shiji Ibrahim U,
Assistant Professor on Contract,
Department of English,
M. E. S. Asmabi College,
P. Vembhallur, Kodungallur.

Abstract

Man's life is intensely entwined with Nature. An existence without it is just a matter of nonexistence. His dependence on Nature can be traced from the very beginning of humanity itself as presented in Vedas, Puranas, Upanishads, Epics and classical literatures. Nature is indispensable part of human life.

Man's life is essentially one with his ecosystem. Parting his soul from it is really hard. This interdependence and connection is successfully presented on screen in the Malayalam movie "Melepparambil Ann Veedu" (1993), directed by Rajaseenan. The locale is a lush green rural area in the District of Palaghat in Kerala. All the male members of the family are farmers except the educated younger one. The rich paddy fields, untarred roads, thatched or tiled roof homes, the village ponds all these idyllic scenes are relived on the silver screen through the film. My paper attempts to examine the interconnection between Man and Nature and to create an awareness about the importance of preservice of Nature in an era of Global warming and the consequent natural calamities.

Key Words: Ecocriticism, Pastoral, Taoism, Locus amoenus.

Introduction

"Simply defined ecocriticism is the study of relationship between literature and physical environment". Cheryl Glotfelty (Barry 248)

Ecocriticism is the study of literature and environment from an interdisciplinary point of view, where literature scholars analyse texts that illustrate environmental concerns and examine various ways literature treats the subject of Nature.

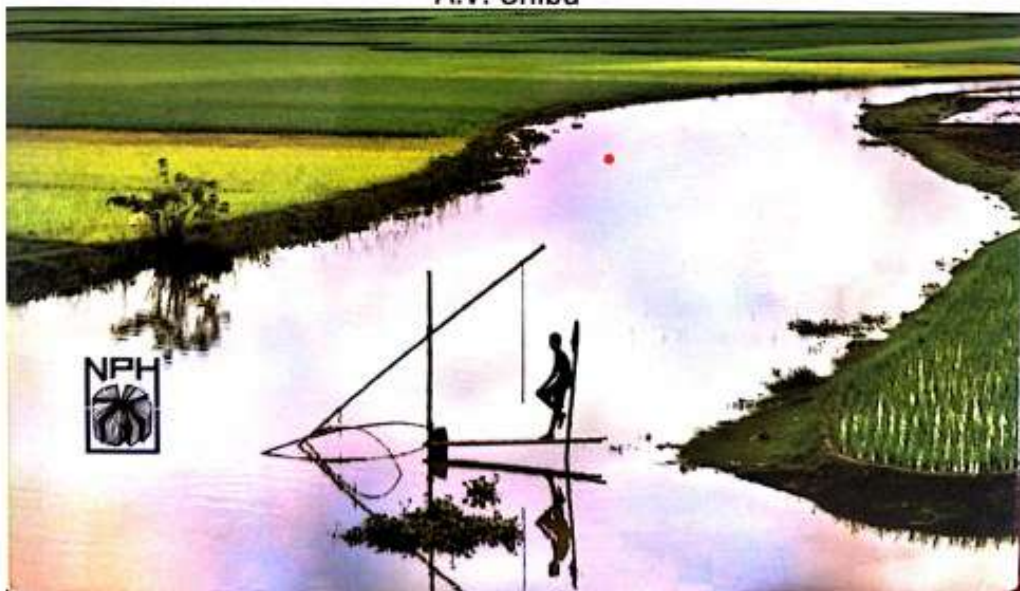
Signpost | 1

Contents	Pages
Presenting Man and Nature in the Light of Ecocriticism in the Malayalam movie. <i>Meleppurambil Am Veesu</i> Shaji Ibrahim U.	1
A Disquisition on the Relevance of English Poems in Overcoming Stress: A Quantitative Study Conducted Among Youngsters Aby John and Johns Shaju	6
Rhetorical and Visual Representation of Girish Karnad's <i>Hayavadana</i> Dr. Purnima S Kumar	11
Quest of Identity and Alienation in Omprakash Valmiki's <i>Joothan: A Dalit's Life</i> Anil Anta	19
Stepping into the Well: A Shinto Revival through the Anime, <i>Inu Yasha</i> Greeshma Joseph and Greena Joseph	23
<i>The Great Indian Kitchen: An Analysis of the Politics of the Kitchen Space</i> Emil George	30
Mapping Politics and Power: Sexual Morality and the Anti-Hero Elza Maria Baby	39
Sense of Loss, Homelessness, Isolation in Diasporic Writers Agla Shahid Ali and Mahnoud Darwish Jomol P. John and Dona Kunjumon	48



IMPACT OF CLIMATE CHANGE ON HYDROLOGICAL CYCLE, ECOSYSTEM, FISHERIES AND FOOD SECURITY

B. Madhusoodana Kurup
M.R. Boopendranath
M. Harikrishnan
A.V. Shibu



Impact of Climate Change on Hydrological Cycle, Ecosystem, Fisheries and Food Security,

Edited by: *B. Madhusoodana Kurup, M.R. Boopendranath, M. Harikrishnan and A.V. Shibu*

Papers presented at ClimFishCon2020: International Conference on Impact of Climate Change on Hydrological Cycle, Ecosystem, Fisheries and Food Security, 11-14 February 2020, Cochin, India.

Copyright © 2021, Narendra Publishing House, Delhi (India)

Citation: Swadhin Behera, 2021. The Climate Variability in the Indo-Pacific Sector. In: Impact of Climate Change on Hydrological Cycle, Ecosystem, Fisheries and Food Security (Madhusoodana Kurup, B., Boopendranath, M.R., Harikrishnan, M. and Shibu, A.V., Eds.), pp. 3-12, Narendra Publishing House, Delhi, India.

All rights reserved. Neither this book nor any part may be reproduced or used in any form or by any means, electronic or mechanical, including photocopying, microfilming, recording, or information storage and retrieval system, without the written permission of the publisher and author.

The information contained in this book has been obtained from authentic and reliable resources, but the authors/publisher cannot assume responsibility for the validity of all materials or the consequences of their use. The editors/publisher have attempted to trace and acknowledge the materials reproduced in this publication and apologize if permission and acknowledgements to publish in this form have not been given. If any material has not been acknowledged please write and let us know so that we may rectify it.

First Published in 2021

ISBN: 978-93-90309-11-5

Published by :

NARENDRA PUBLISHING HOUSE

Publisher and Distributor

C-21, Varan Apartment, Sector -9, Rohini

NEW DELHI - 110085

Phones: 91-011-45025794, +919717874875

E-mail: info@nphindia.com, nphindia@gmail.com

Website: www.nphindia.com

Printed in India

Laser Typeset by Amrit Graphics, Shahdara, Delhi-110032

30.	Widespread Invasion of an Alien Mussel in Ashtamudi Lake, a Ramsar Site in Kerala, India <i>P.R. Dhye, T.T. Ajith Kumar, Kuldeep Kumar Lal</i>	359
31.	Assessing the Drivers of Forest Degradation in Peechi-Vazhani Wildlife Sanctuary, Western Ghats <i>Shalu George, Manjusha, K., Mukesh Lal Das, Nadirsha PS Nawab, S. Anbazhagi and Muthukumar Muthuchamy</i>	365
32.	Structural Analysis of Major Mangrove Forests of India <i>S. Sreelekshmi, S. Bijoy Nandan and M. Harikrishnan</i>	379
VI:	FOOD AND NUTRITIONAL INSECURITY	391-508
33.	Food and Nutritional Insecurity in the Perspective of Climate Change <i>K. Gopakumar</i>	393
34.	Export Oriented Aquaculture for Seafood Exports from India <i>K.S. Srinivas</i>	399
35.	A Meta-Analysis Study on Types of Seafood Mislabelling in Canada <i>Lovena Mathew</i>	407
36.	State of Biocultural Diversity, Climate Change and Ethnic Meat and Fish Products of Northeast India: A Review <i>Ranendra Kumar Majumdar</i>	425
37.	Utilization of Secondary Raw Materials from Fish for Developing High Value Novel Foods and Dietary Supplements <i>Suseela Mathew and C.N. Ravishankar</i>	439
38.	Characterization of Collagen from the Skins of Three Different Commercially Important Fishery Resources <i>Moe Theingi Hlaing, K. Elavarasan, U. Parvathy, C.G. Joshy and George Ninan</i>	459
39.	Consumer Preference for Value added Fish Products in Kochi (Kerala) <i>Mary Saniya Stephen and Dhanya Pulikkottil Rajan</i>	469
40.	Chemical and Biophysical Properties of Gelatin Composites from Cephalopods for the Improvement of Textural Quality in Sausages <i>Roopa Rajan, L. Aranganathan and S.R. Radhika Rajasree</i>	477

CHAPTER - 39

Consumer Preference for Value added Fish Products in Kochi (Kerala)

Mary Saniya Stephen^{1*} and Dhanya Pulikkottil Rajan²

¹*School of Industrial Fisheries, Cochin University of Science and Technology Lake-side campus,
Fine arts Avenue, Cochin-682016, Kerala, India*

²*Department of Aquaculture, M.E.S. Asmabi College Padinjare Vemballur, Thrissur-680671
Kerala, India*

*E-mail: saniyastephen94@gmail.com

Fisheries sector has witnessed an impressive growth from a subsistence traditional activity to a well-developed commercial and diversified enterprise. It has been playing a pivotal role in the economic development by virtue of its potential contribution to employment generation, income augmentation, addressing food and nutritional security concerns and foreign exchange earnings. World fish production has increased immensely and the capture fishery has arrived at a state of over exploitation. An alarming increase in human population is resulting in widening the supply-demand gap, with the consequences of reduced availability, rising price and search for alternative resources to meet the gap (Clark, 1990).

Low priced fishes are either converted to fish meal or sold for curing. In general, deep-sea fishes may not be immediately acceptable to the consumers due to unfamiliarity in shape, size and colour of the new varieties. These low priced fishes are nutritionally and chemically in no way inferior to that of fishes of commercial importance. Therefore, collecting and processing meat of these fishes into diversified value-added products suiting to human consumption would result in effective utilization of the resource. Moreover, purchasing capacity of people is going to enhance in years to come and market prices are going to be high for fish (Salim, 2008).

Marketing of value-added fish products is completely different from traditional seafood trade. Market surveys, packaging and advertising are a few of the very important areas, which ultimately determine successful movement of new products. Most market channels currently used may not be suitable to trade value added fish products. A new appropriate

Proceedings of the National Seminar Species The Passion 7



St. Thomas College (Autonomous), Thrissur

<i>Title</i>	“SPECIES THE PASSION 7” (Proceedings of the National Seminar “Species The Passion 7”, 9 March 2022)
<i>Editor-in-Chief</i>	Dr. Anto P.V. Asst. Professor, Convenor – “Species The Passion 7”
<i>Editors</i>	Ms. Afsana Khan, Ms. Keerthana Nandakumar, Ms. Nimmi C Dominigose, Ms. Reshma Ashok
<i>Language</i>	English
<i>Published by</i>	Publication Division, St. Thomas College (Autonomous), Thrissur
<i>Disclaimer</i>	The Publishers assume no responsibility for the views, statements and opinions expressed by the authors
©	2022 St. Thomas College (Autonomous), Thrissur
<i>ISBN</i>	978-93-91691-01-1
<i>Price</i>	Rs. 150/-
<i>Printed at</i>	Educare, Thrissur

CONTENTS

<i>Syzygium travancoricum</i> Gamble, an endangered endemic species of Southern Western Ghats.....	7
<i>Smitha PS and Anto PV</i>	
Diversity of the genus <i>Nostoc</i> (Cyanobacterium) from the forests of Palakkad District, Kerala.....	19
<i>Manu Philip, Navya Patrick and VV Radhakrishnan</i>	
The Genus <i>Oryza</i> and its cultivated species.....	26
<i>Surekha Y Pawar</i>	
Addressing the Limitations of Niche Modelling for Species Distribution Prediction with Reference to the Western Ghats.....	41
<i>Devika M Anilkumar and KH Amitha Bachan</i>	
Taxonomy and Diversity of the Lesser-Known Varieties of <i>Ficus virens</i> (Moraceae) from the Western Ghats.....	56
<i>Sreehari S Nair and KH Amitha Bachan</i>	
Taxonomy and distribution of genus <i>Hydanocarpus</i> gaertn. (Flacourtiaceae) in Kerala.....	66
<i>Jithin KV, Anto PV and Ignatius Antony</i>	
Phytoplankton assessment of Heart Lake, Western Ghats, Kerala.....	72
<i>Dhanya Jose, Anto PV and Ignatius Antony</i>	
Taxonomy and Distribution of Euglenoids in Kalpathy river, Palakkad.....	78
<i>Seena KK, Anto PV and Ignatius Antony</i>	
Floral biology and phenology of <i>Impatiens violacea</i> (Balsaminaceae), an endemic balsam of Western Ghats.....	88
<i>Reshma Ashok, Anto PV and Ignatius Antony</i>	

**Taxonomy and Diversity of the Lesser-Known Varieties of *Ficus virens*
(Moraceae) from The Western Ghats**

Sreehari S. Nair¹ and K.H. Amitha Bachan²

1. Research Scholar, Research and P G Department of Botany, MES Asmabi College, P. Vemballur, Thrissur. *Corresponding author: harificus@gmail.com*
2. Assistant Professor, Research and P G Department of Botany, MES Asmabi College, P. Vemballur, Thrissur

Abstract

The genus *Ficus* (Moraceae) which comprises around 115 taxa distributed in India is a dominant genus among the angiosperms. A comprehensive revision of the genus *Ficus* L., from the Western Ghats, recorded 36 taxa of *Ficus*. Encountered two interesting specimens were identified as varieties of *Ficus virens*. *Ficus virens* Aiton is one of the most common and widely distributed species of *Ficus* in the world. Which shows great complexity in the morphological characters and hence more complex in the taxa. Whereas the *Ficus virens* var *matthewii*, is a new record for Kerala and *Ficus virens* var *dispersa*, a new report to India. These two varieties of *Ficus virens* showed significant differences from the common variety *Ficus virens* var *virens*. A detailed taxonomic description of all the three varieties along with an identification key and images are provided here.

Keywords: Distributional record, *Ficus virens*, *Urostigma*, Western Ghats.

Introduction

The genus *Ficus* L., (Moraceae) is a highly diversified genera with respect to the habit pattern and life forms. The genus is mainly distributed in the tropical and sub-tropical regions of the world (Chaudhary *et al.*, 2012; Mohapatra *et al.*, 2020). The presence of the specialised inflorescence - hypanthodium, minute flowers and morphological complexities make the genera problematic. The global revision of the genus by E. J. H. Corner since 1930, reduced the number of species to ca. 750. The first detailed work on the genus from India was carried out by G. King (1887) and recorded 113 species and 47 infraspecific taxa of *Ficus*. The genus remained unnoticed except few regional works. BSI initiated a revisionary work on the genera and reported 115

Proceedings of the National Seminar Species The Passion 7



St. Thomas College (Autonomous), Thrissur

<i>Title</i>	“SPECIES THE PASSION 7” (Proceedings of the National Seminar “Species The Passion 7”, 9 March 2022)
<i>Editor-in-Chief</i>	Dr. Anto P.V. Asst. Professor, Convenor – “Species The Passion 7”
<i>Editors</i>	Ms. Afsana Khan, Ms. Keerthana Nandakumar, Ms. Nimmi C Dominigose, Ms. Reshma Ashok
<i>Language</i>	English
<i>Published by</i>	Publication Division, St. Thomas College (Autonomous), Thrissur
<i>Disclaimer</i>	The Publishers assume no responsibility for the views, statements and opinions expressed by the authors
©	2022 St. Thomas College (Autonomous), Thrissur
<i>ISBN</i>	978-93-91691-01-1
<i>Price</i>	Rs. 150/-
<i>Printed at</i>	Educare, Thrissur

CONTENTS

<i>Syzygium travancoricum</i> Gamble, an endangered endemic species of Southern Western Ghats.....	7
<i>Smitha PS and Anto PV</i>	
Diversity of the genus <i>Nostoc</i> (Cyanobacterium) from the forests of Palakkad District, Kerala.....	19
<i>Manu Philip, Navya Patrick and VV Radhakrishnan</i>	
The Genus <i>Oryza</i> and its cultivated species.....	26
<i>Surekha Y Pawar</i>	
Addressing the Limitations of Niche Modelling for Species Distribution Prediction with Reference to the Western Ghats.....	41
<i>Devika M Anilkumar and KH Amitha Bachan</i>	
Taxonomy and Diversity of the Lesser-Known Varieties of <i>Ficus virens</i> (Moraceae) from the Western Ghats.....	56
<i>Sreehari S Nair and KH Amitha Bachan</i>	
Taxonomy and distribution of genus <i>Hydanocarpus</i> gaertn. (Flacourtiaceae) in Kerala.....	66
<i>Jithin KV, Anto PV and Ignatius Antony</i>	
Phytoplankton assessment of Heart Lake, Western Ghats, Kerala.....	72
<i>Dhanya Jose, Anto PV and Ignatius Antony</i>	
Taxonomy and Distribution of Euglenoids in Kalpathy river, Palakkad.....	78
<i>Seena KK, Anto PV and Ignatius Antony</i>	
Floral biology and phenology of <i>Impatiens violacea</i> (Balsaminaceae), an endemic balsam of Western Ghats.....	88
<i>Reshma Ashok, Anto PV and Ignatius Antony</i>	

**Addressing the Limitations of Niche Modelling for Species Distribution
Prediction with Reference to the Western Ghats**

Devika M. Anilkumar¹ and K.H. Amitha Bachan²

Email: devikamadathil99@gmail.com

1. Research Fellow, Research Department of Botany, MES Asmabi College, P. Vemballur, Thrissur, Kerala -680671, India.
2. IUCN Global Assessor for tree species, Assi. Prof. & Research Guide, Research Department of Botany, MES Asmabi College, P. Vemballur, Thrissur, Kerala - 680671, India.

Abstract

Ecological Niche modelling has a prime importance in prediction of niche suitability of a species. The study addresses the limitations of Species Distribution Modelling (SDM) using a modified methodology (MSDM) and experimented here with four threatened species of the Western Ghats. The authentic distribution records and bioclimatic variable gives an accurate Maxent-based prediction to the potential habitat of the species. SDM is facing a greater challenge hence it not considering the factors of the Eltonian niche. The incorporation of species associates, altitude and terrain features helps to consider the factors of the Eltonian niche which probably lack in the Species Distribution Modelling (SDM). The study with the support of detailed works affirms here the MSDM is more efficient and suitable for prediction of potential locations for species in the Western Ghats compared to the normal SDM. The coalescence of habitat degradation factors based on vegetation and land use spatial information imparts more precision into the suitability of projected areas. Here, we tested this with the habitat prediction of four threatened species *Cryptocarya anomalayana* Gamble, *Diospyros crumenata* Thwaites, *Prioria pinnata* (Roxb. ex DC.) Breteler, *Orophea erythrocarpa* Bedd. which occupies a unique and narrow niche in the forest of the Western Ghats. This approach can be used for the prediction of potential habitat of threatened species for conservation and ecorestoration.

Cultural Congruence: Contemporaneity and Confluence

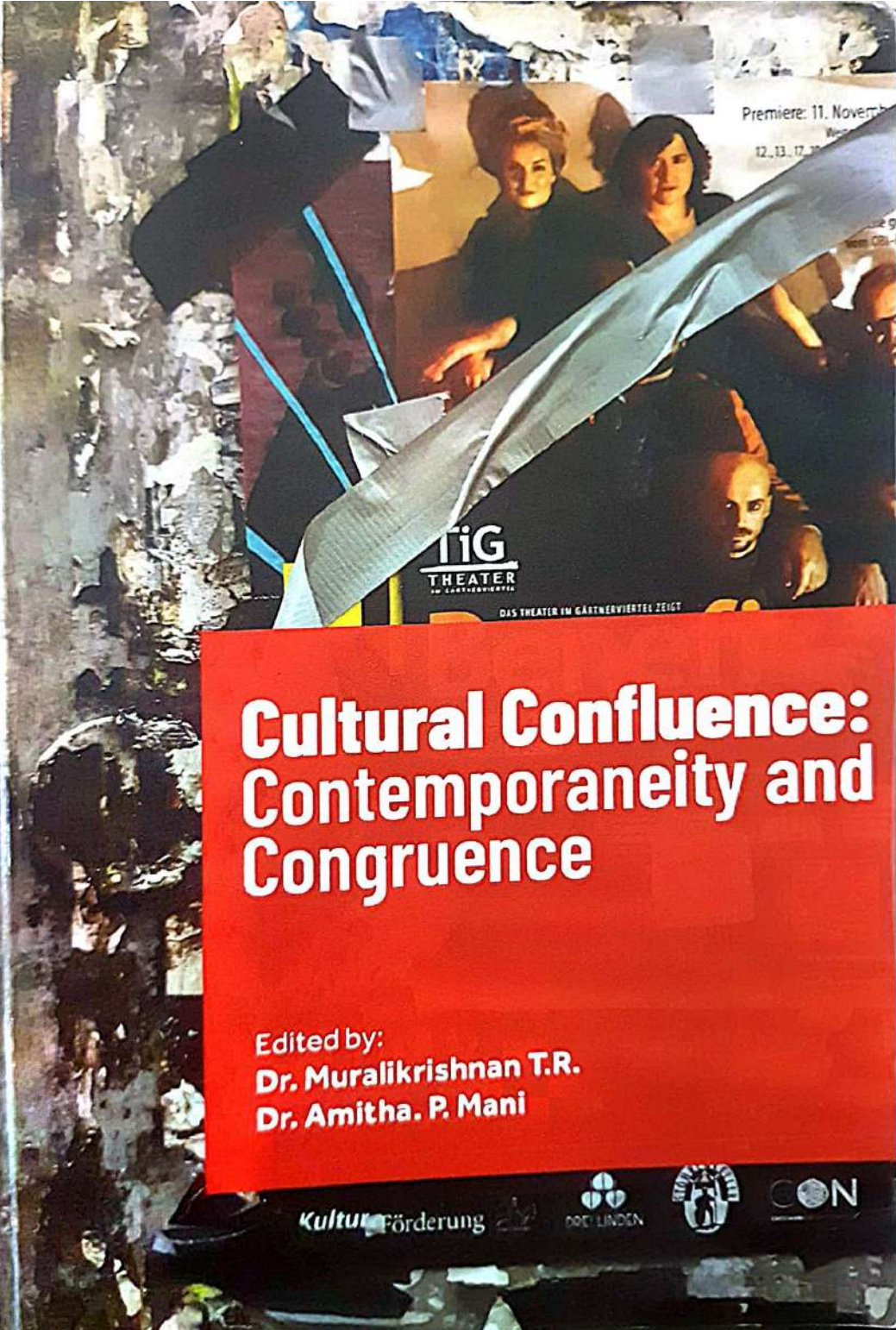
Edited by

Dr. Muralikrishnan T.R.

Dr. Amitha P Mani



Co-text Publishers, Kottayam



Cultural Confluence: Contemporaneity and Congruence

Edited by:
Dr. Muralikrishnan T.R.
Dr. Amitha. P. Mani

Kultur Förderung



CON

English Language

Cultural Congruence: Contemporaneity and Confluence

Collection of essays edited by: Dr. Muralikrishnan T.R. and

Dr. Amitha P Mani

© Authors

Publication year: 2022

Cover Design: Silju C Lalu

Layout: Vishnu N

Printing: Co-Text, Kottayam.

Publishing

Co-text Publishers

NSS Building, State Bank Junction

Kallara South (PO)

Kottayam, Kerala, India pin: 686611

Ph: 8547918535

Distribution

Co-text Publishers

NSS Building State Bank Junction

Kallara South (PO)

Kottayam, Kerala, India pin: 686611

Ph: 8547918535

ISBN: 978-81-952253-7-8

Price: Rs. 499/-

Cultural Congruence: Contemporaneity and Confluence

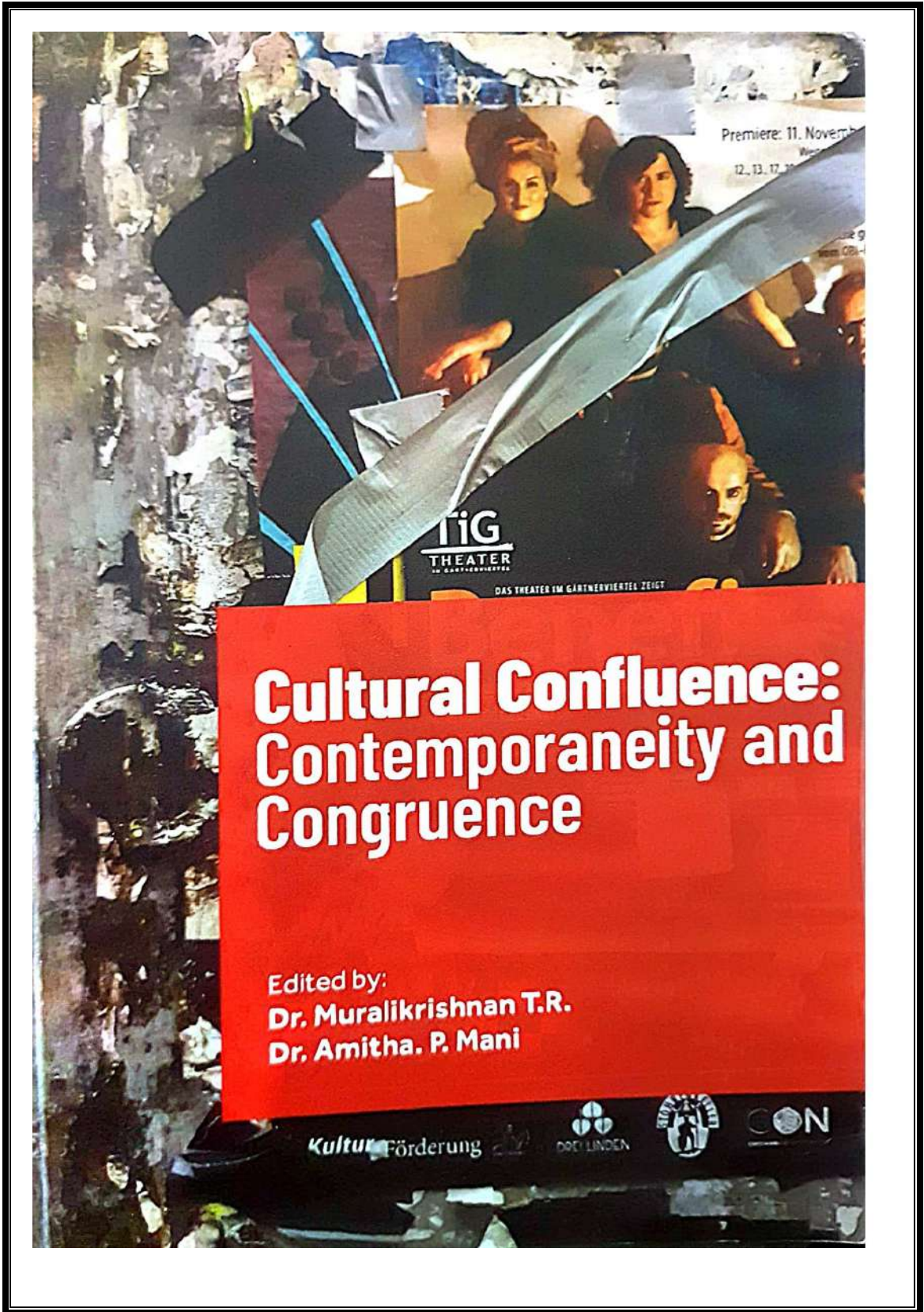
Edited by

Dr. Muralikrishnan T.R.

Dr. Amitha P Mani



Co-text Publishers, Kottayam



English Language

Cultural Congruence: Contemporaneity and Confluence

Collection of essays edited by: Dr. Muralikrishnan T.R. and

Dr. Amitha P Mani

© Authors

Publication year: 2022

Cover Design: Silju C Lalu

Layout: Vishnu N

Printing: Co-Text, Kottayam.

Publishing

Co-text Publishers

NSS Building, State Bank Junction

Kallara South (PO)

Kottayam, Kerala, India pin: 686611

Ph: 8547918535

Distribution

Co-text Publishers

NSS Building State Bank Junction

Kallara South (PO)

Kottayam, Kerala, India pin: 686611

Ph: 8547918535

ISBN: 978-81-952253-7-8

Price: Rs. 499/-



MULTIDISCIPLINARY
**RESEARCH
IN EDUCATION**
VOL-II

EDITOR
HIMA HARRY
CO-EDITOR
MS.ASHNA VARGHESE

MULTIDISCIPLINARY RESEARCH IN EDUCATION



Ms. Ashnia Varghese is currently working as Assistant Professor in Carmel College(autonomous), Mala, affiliated to the University of Calicut, Kerala. She did her masters in English language and literature and has qualified the NET as well. She has won various awards in different literary events, in district and State levels and is currently working on her PhD synopsis. As an aspiring scholar, she is interested in improving her writing and editing skills and has grabbed the opportunity for the same.



Himma Harry, an author, Co-author, Editor and a poet who is interested in writing and teaching. Currently, she is working as an Assistant Professor at Carmel College, Mala. Her single authorship book titled "The Revival of Virtues in the Realm of Literature" has published in 2021. She has published various research articles and poems in different journals. She has presented many research papers in National and International Conferences. She has achieved World Book of Record, Asian Book of Record and Indian Book of Record.

She has received Pillars of India award 2021. She has achieved Best Teacher Award in 2021 (Education Excellence Award). She has edited three anthologies entitled "The Lap of Nature", "Euphoria" and "Elixia". She has published more than hundred poems. Her short stories titled "My Sobbing days", "My Identity" and "Red Masks" have also published. She has contributed an article in Green Street Magazine. She has participated in UNESCO International Mentoring Programme titled "Empowering Teachers for Developing Culturally Responsive Classroom".



ESN PUBLICATIONS
RESEARCH & DEVELOPMENT

☎ +918838173189

✉ esnpublications@gmail.com



	PAPER TITLE	PAGE No.
11	VISIBILITY OF DISABILITY: A STUDY ON DISABLED IN THE MAINSTREAM INDIAN COMMERCIAL ADVERTISEMENTS Rejna P.H	107-114
12	NONSENSE LITERATURE: AN ANALYSIS OF THE WALRUS AND THE CARPENTER WRITTEN BY LEWIS CARROLL Reshma T.M	115-117
13	GENDER ESSENTIALISM IN ONE PART WOMAN BY PERUMAL MURUKAN Rinsana Rahmath A	119-127
14	THE COMPARATIVE ECO-CRITICAL STUDY OF AMITAV GHOSH'S THE HUNGRY TIDE AND KAMALA MARKANDA YA'S NECTAR IN A SIEVE Nereparambil Sandra Varkey	129-140
15	ECO-FEMINISM IN MARGARET ATWOOD'S SURFACING SHIFANA.P. A	141-150
16	THE PLIGHT OF THE THIRD GENDER: QUEST FOR IDENTITY IN THE NARRATIVES ME HIJRA, ME LAXMI BY LAXMI NARA YAN TRIPATHI Shinshi K	151-162
17	"REELS": A STANDARDIZATION STRATEGY IN THE CYBERSPACE Sifna Xavier	163-167
18	HOW MEGHNA GULZAR'S FILM RAAZI BREAKS THE STEREOTYPES ON WOMAN IN INDIA Ms. Siya Abi	169-176
19	DISMANTLING FIXITIES: IDENTITY AND HOME IN DIASPORIC FICTION Sreeparvathy A V	177-186
20	PORTRA YAL OF WOMEN CHARACTERS: A READING OF SUDHA MURTY'S NOVELS, 'GENTLY FALLS THE BAKULA' AND 'HOUSE OF CARDS'. Tesma Joby	187-195

© 2022, ESN Publications,
First Edition: 2022, VOLUME II

This book or part thereof cannot be translated or reproduced in any form without the written permission of the author and the publisher.

ISBN : 978-93-95196-45-1

Published By:

ESN PUBLICATIONS,
3/151-A, Muthuramalingapuram,
Kalloorani Post,
Aruppukottai Taluk,
Virudhunagar District,
Tamilnadu,
India, Pincode-626105

Nonsense Literature: An analysis of *The Walrus and the Carpenter* written by Lewis Carroll

Reshma T.M

Assistant Professor on Contract
Department of English
MES Asmabi College, P.Vemballur

Abstract

'Meaninglessness' is the least considering word in the life's dictionary of every individual. It is considered as something negative. But sometimes man may felt this meaninglessness in his walks of life. This meaninglessness is the essence of nonsense literature. Literary nonsense is much more than mere nonsense. They use such words to create humorous situations in the work of literature. 'The walrus and the carpenter' by Lewis Carroll is a fine example of nonsense literature. This article analyse the poem as a nonsense poetry.

Key words: Nonsense literature, Lewis Carroll, death and betrayal,

"I love to talk about nothing. It is the only thing I know anything about"

-Oscar Wilde

Man do everything for a purpose. He speaks reasonably. In fact man is considered as the most reasonable creature on earth. It is his rationality that differentiate him from other being on earth and giving him a superior position.

But he may not be reasonable all the time. There are times he speaks irrationally or insensibly. This may not be on purpose all the time. Though we may felt it absurd sometimes it

Functional Grammar and Communication in English

A prescribed text for first semester (Course ENG
1 A02) Common Course in English for all UG
Programmes)

Dr. Muralikrishnan T.R.

Sabitha M.M.

Lekshmi S.

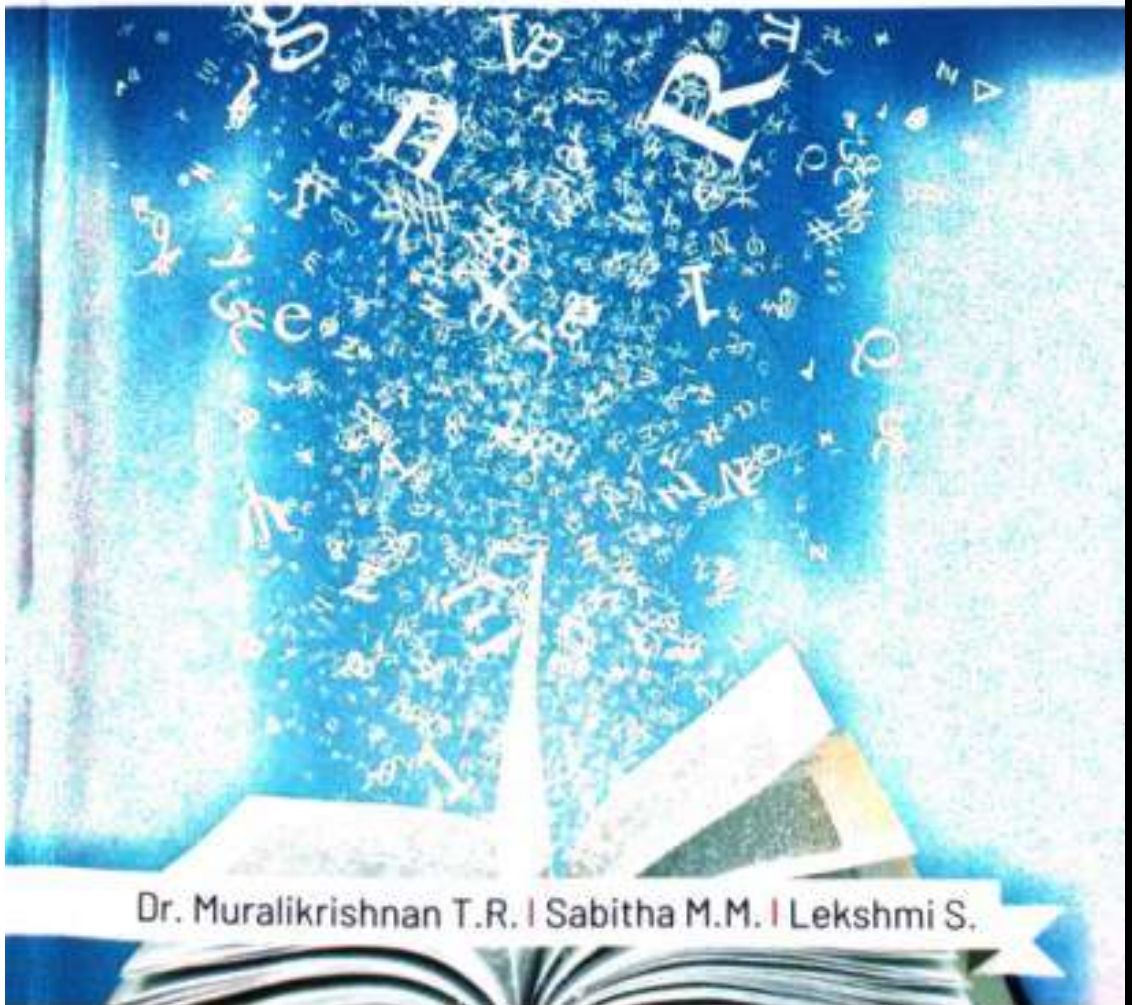


PUBLICATION DIVISION, UNIVERSITY OF CALICUT



Publication Division
University of Calicut

Functional Grammar and Communication in English



Dr. Muralikrishnan T.R. | Sabitha M.M. | Lekshmi S.

Members of the Board of Studies in English (UG)

1. Dr. Pradeepkumar K. (Chairperson)
2. Smt. Siniya Tom Kenady
3. Dr. Raheena K. K.
4. Dr. Basheer V. P.
5. Dr. Sreepriya
6. Sri. Ramachandran K.
7. Dr. Sajitha M. A.
8. Dr. Muralikrishnan T. R.
9. Sri. Roy P. P.
10. Smt. Sreeja G.
11. Dr. K. M. Sherrif (Chairperson, BoS in English-PG)

**Functional Grammar and
Communication in English**

Dr. Muralikrishnan T.R.
Sabitha M.M.
Lekshmi S.

Calicut University Edition
Published in July 2022

Cover: Asuthosh V.
Typesetting : Laly Francis K.

© UNIVERSITY OF CALICUT
Printed at Calicut University Press

Price: Rs. 150/-

ISBN 978-81-953846-3-1

Published by Omprakash V., Publication Officer, University of Calicut.

CUP/3045/22/75000/PUB



Nanotechnology in the Automotive Industry

Micro and Nano Technologies

2022, Pages 317-343

Chapter 16 - Magnetic nanoparticles-based coatings

P. Poornima Vijayan^a, Archana Somadas Radhamany^a, Ansar Freath Beeran^b, Maryam Jouyandeh^c,
Mohammad Reza Saeb^d

Show more ▾

[Outline](#) | [Share](#) [Cite](#)<https://doi.org/10.1016/B978-0-323-90524-4.00016-5>[Get rights and content](#)

Abstract

This chapter provides a detailed description of the promising role of magnetic hybrid nanoparticles in coating technology adopted in marine industry, automobiles, aviation, medical implants, defence, electronics, and eventually industrial structure in oil and gas, fertilizer, metallurgical, and other industries. It was also attempted to give an image of the microstructure-properties relationship of coatings in terms of cure behavior and kinetics of hybrid coatings containing MNP. By the use of MNPs, it is possible to tailor various properties of coatings like anticorrosion, superhydrophobicity, self-healing, antifouling, and microwave absorption over a wide range of substrates including metals and fabrics. Latest trends practised in such coatings were concisely discussed. The mechanism of action of MNPs in facilitating special features to these coating was clearly depicted. We also aim to give a concise summary of the potential of MNPs in developing future protective coatings.

[<](#) PreviousNext [>](#)

Keywords

Magnetic hybrid nanoparticles; Hybrid coatings; Corrosion inhibitor; Antifouling; Electromagnetic wave interference

[Recommended articles](#)

Cited by (0)

View full text

<https://www.sciencedirect.com/science/article/abs/pii/B9780323905244000165>

1/2

Details

ISBN

978-0-323-90524-4

Language

English

Published

2022

Copyright

Copyright © 2022 Elsevier Inc. All rights reserved.

Imprint

Elsevier

DOI

<https://doi.org/10.1016/C2020-0-03545-0>

SIGNPOST
Evolving Poetic Utterance:
New Frontiers and Visual Signatures



P.G. DEPARTMENT OF ENGLISH
NAIPUNNYA INSTITUTE OF MANAGEMENT AND
INFORMATION TECHNOLOGY
PONGAM, KORATTY

Language: English

Evolving Poetic Utterance: New Frontiers and Visual Signatures

Collection of essays edited by: Grace K. Benny, Greena Joseph and Dr. P. Kumar

© Authors

Publication year: 2022

Cover design: SM Press

Layout: SM Press

Printing: SM Press

Publishing

Association for Cultural and Scientific Research

Thrissur- 680689

Circulation

P.G. Department of English

Naipunnya Institute of Management and Information Technology,

Pongan, Koratty

Thrissur, Kerala, India, Pin 680308

ISBN: 978-81-952711-2-2

Transhumanism: A Taste for Transgression in the prospect of *Human II*,
The Stone Gods

Cyril H

Binding of Women and History on Khaled Hosseini's *A Thousand Splendid*
Agnes Beneeta Dsilva

Peregrination into the Human Psyche through Underlying Spiritual Phantas
movie *Manassinakkare*

Jameelathu, K.A

Postmodernism, Identity and Late Capitalism

Simon Peter

Blending of Science and Horror Fiction in the novel *The Invisible Man* by
H.G. Wells

Vandana Martin

The Puppets: Students' Thoughts are Under the Control of Political Partis

Abhinandh Jenceesh

Peregrination into the Human Psyche through Underlying Spiritual Philosophy in the movie *Manassinakkare*

Jameelathu.K.A
Assistant Professor
Research Department of English
Mes Asmabi College,P.Vemballur

Abstract

Movies act as a reformative medium from the time it has been initiated as an art form. A spiritualistic change that occurs when purified by "arousing pity and fear" as Aristotle said can really modify men by making them think reflectively on life and meaning of life. Religion, wealth and power are the tools with which we measure our happiness normally. But watching an apt movie makes us think philosophically about life, shifting our mental texture from material leaning to the spiritual leaning and thus we start thinking about an egalitarian society. Some movies pierce into our mind, making a trepidation within and topsyturvyving our concept of life altogether. Malayalam movie "Manassinakkare", thus affects our conscience suggesting a lot many possibilities of burden free life showing the mysterious paths of Sisyphian life. The recurrence of life's frivolous, sometimes cruel mockery makes the movie more like a purgatory. It moves in like a well written poem to our heart and tickles our ego to shed itself as a snake's moult. The rustic greenery throughout the movie signifies the eco-related peacefulness and solemnity. The songs echo the strong relation of man and nature. The ideal and the real are placed side by side in the movie. A middle generation moving towards thorough materialism and the old and the new turning towards the ideal rustic notion brings a poetic charm to the whole movie. An Eco-Culture evolving out of the Taoist philosophy is latent here and sometimes reflects through some of the characters.

Keywords: Purgatory, Taoism, Sisyphian, Eco-culture

Introduction

The rhythm of the universe lies in the balanced life of humans and animals. Man should understand the value of and start practicing, aligning oneself to the natural way of cosmos, simple life. In that process, he gains the wisdom to

Signpost | 65

Redefining Theories of Communication

21st Century Perspectives in Language and Literature



Chief Editors

Dr G Immanuel
Dr T Sri Devi

**Department of English and
Other Foreign Languages**

College of Science and Humanities
SRM IST, Ramapuram

Redefining Theories of Communication
21st Century Perspectives in Language and Literature

Conference Proceedings

First Published: March 2023

Department of English and Other Foreign Languages
College of Science and Humanities, SRM IST, Ramapuram

Copyright 2023 SRM IST Ramapuram

E- ISBN: 9798215540473

E-Book Distribution
Smashwords, USA

Electronic Edition, License Notes

Thank you for downloading a copy of this book. This book remains copyrighted, and hence must not be redistributed to others for commercial purposes without prior permission. Non-commercial and academic redistribution is permitted.

Publishing Assistance & Supervision

Prof. Manu Mangattu
(Mob: 9496322323)

Cover Design & Layout

Dreams Design Hyderabad
(Mob: 9745390453)

Man as the Oppressor and the Oppressed: A Postcolonial and Psychological Perspective on the Malayalam movie *Guru*

Jameelathu KA

Assistant Professor, Research Department of English, MES Asnabi College P. Vemballur

Abstract

*Movie as a mode of literary expressions and as a reformative medium functions with full effects ever since it has been normalized as a genre of literature. As a visual medium it has a special privilege to mingle with the soft emotions of human beings. It makes man think or reflect on his actions and the acts of society. Writers and directors with humanitarian sentiments have tried incessantly to bring about these reflections that may keep humanity away from the many social and environmental evils. Socially and environmentally important topics have been used by these writers to open the otherwise blind eyes of human beings. The director Rajiv Anchal and the writer C G Rajendra Babu had tried to bring about these reflections in human mind through their thought provoking 1997 Indian Malayalam Language fantasy drama film *Guru*. It ranges from all levels, i.e. psychological, spiritual, environmental and more clearly on postcolonial elements. Man as a victim of circumstances becomes the oppressor and the oppressed. In most of the cases he himself is the cause of his troubles and turmoil. When this primordial cause is identified, he will be isolated from the ignorant multitudes, the hero of the movie experiences this isolation and alienation due to his newly earned wisdom. This paper tries to analyse the underlying truth and its negligence as the root cause of human misery.*

Keywords: *reformative medium, fantasy drama, primordial cause, ignorant multitudes*

Introduction

Man has been shown as the most complicated of all the species as he is the one who creates changes in the created world and he is the only one who uses an acquired language rather than the innate one which all the other species use. He makes everything complicated, his life and the lives of all the other creatures. He calls it development and boasts of his talents and achievements, mastering all the other beings enslaving them. The theories on which most of the researches are done analyses these complexities on which human world is built. Whether it is post colonialism, existentialism, psychoanalysis, gender theory, archetypal or any of this sort, it delves deep in to the maze-like human world in which man himself is the oppressor and the oppressed as it happened from the time immemorial since his origin. Man's conscientious wisdom regarding his own frivolities might have caused him create stories regarding his own origin based on his own insolence and irrationality. The scriptures of all the religions in the world reflects on this frivolities and complications in his behavior.

Post Colonialism states that a study of human society in the modern world should have a base on European imperialism and its effect upon the human society. This theory emerged in the 80s and many other theories came side heading it. The concept of the colonizer and the colonized, the oppressor and the oppressed is basic to it and these terms are relative to various circumstances. The Palestinian American critic Edward Said in his work *Orientalism* discusses this as a theory first and it is taken over by Homi.K Baba, Gayatri Spivak etc. Post Colonialism is a theory which is used to analyse the selected movie, i.e Malayalam language drama fantasy movie *Guru* in this paper. Another theory which is also used to analyse this movie in connection with Post Colonial theory is Psycho Analytical theory first laid out by Sigmund Freud in the late 19th Century. The first realm of human psyche 'Id' that is the repository of all animosity in human psyche and superego which is the purveyor of all moralities are more focused in this paper than ego or the normal state. Movies sometimes act as the voice of human conscience and to fulfill its directions man is inefficient at times. Various characters in the movie proves that individual human being is responsible for individual suffering and the speciality of the unconscious mind make man the oppressor and the oppressed



RECENT TRENDS IN MULTIDISCIPLINARY SUBJECTS

VOLUME - 1

CHIEF EDITORS

**PROF. (DR.) NAMITA RAJPUT
AISHWARYA KATYAL**

ASSOCIATE EDITORS

**DR. MOHD. SHAIKHUL ASHRAF
DR. RESHMI S
JISNA JOHNSON
RASHIKA DURGVANSHI
DR. VENKATA NARASIMHA RAO INUKOLLU**

CO-EDITORS

**ANUSHKA KATYAL
DR. DARSHINI MADANAGOPAL**

RECENT TRENDS IN MULTIDISCIPLINARY SUBJECTS VOLUME-1

CHIEF EDITORS

**Prof. (Dr.) Namita Rajput
Aishwarya Katyal**

ASSOCIATE EDITORS

**Dr. Mohd. Shaikhul Ashraf
Dr. Reshmi S
Jisna Johnson
Rashika Durgvanshi
Dr. Venkata Narasimha Rao Inukollu**

CO-EDITORS

**Anushka Katyal
Dr. Darshini Madanagopal**

red'shine
Publication
INDIA

RECENT TRENDS IN MULTIDISCIPLINARY SUBJECTS, VOLUME-1

Edited by: Prof. (Dr.) Namita Rajput, Aishwarya Katyal, Dr. Mohd. Shaikhul Ashraf, Dr. Reshmi S, Jisna Johnson, Rashika Durgvanshi, Dr. Venkata Narasimha Rao Inukollu, Anushka Katyal, Dr. Darshini Madanagopal

■
RED'SHINE PUBLICATION PVT. LTD.

Headquarters (India): 88-90 REDMAC, Navamuvada,

Lunawada, India-389 230

Contact: +91 76988 26988

Registration no. GJ31D0000034

In Association with,

RED'MAC INTERNATIONAL PRESS & MEDIA. INC

India | Sweden | UK

■
Text © *Editors*, 2022

Cover page ©RED'SHINE Studios, Inc, 2022

■
All rights reserved. No part of this publication may be reproduced or used in any form or by any means-
photographic, electronic or mechanical, including photocopying, recording, taping, or information
storage and retrieval systems- without the prior written permission of the author.

■
ISBN: 978-93-94727-43-4

ISBN-10: 93-94727-43-4

DIP: 18.10.9394727434

DOI: 10.25215/9394727434

Price: ₹ 1000

June, 2022 (First Edition)

■
The views expressed by the authors in their articles, reviews etc. in this book are their own. The Editor, Publisher
and owner are not responsible for them. All disputes concerning the publication shall be settled in the court at
Lunawada.

■
Website: www.redshine.co.in | **Email:** info@redshine.in

Printed in India | Title ID: 9394727434



CHIEF EDITOR



Prof (Dr) Namita Rajput has served as the Principal (OSD) at Sri Aurobindo College (Evening), University in Delhi for a term of 3 years (April 2017-May 2020) and has an enriching experience 30 years of experience in the Department of Commerce, Sri Aurobindo College (Morning) since December 1, 1995. Presently she is a professor in department of commerce since 2018. She has 27 copyrights with the Government of India and one Australian patent. She has authored 33 books and about 200 research papers in National and International Journals of repute. She has delivered about 200 lectures in CEC, UGC.

ASSOCIATE EDITORS



Dr. Mohd. Shaikhul Ashraf, Assistant Professor, Department of Botany, HKM Govt. Degree College Bandipora Kashmir, obtained his M.Sc., M.Phil. and Ph.D. from the Aligarh Muslim University, Aligarh. He has also done B. Ed. from the University of Kashmir, Srinagar and M. A. in English from IGNOU, New Delhi. The area of his Research is Plant Pathology and Nematology. He is teaching Botany in various Degree Colleges of Kashmir since 2009. He has published 23 research papers in reputed journals and co-authored five books. He is recipient of several awards and life member of several Scientific and Educational Societies.



Dr. Reshmi S has been working as Assistant Professor, in the Research Department of English, MES Asmabi College, Kodungallur, Thrissur, Kerala since 2012. Her areas of interest include Literary Theory, Gender Studies, Transnational Studies, Indian English Literature and Postcolonialism. She represented various Faculty Development Programs, seminars and webinars as Resource Person and Invited Speaker. She has published research articles on various National and International Journals and books and presented academic papers in seminars, webinars and conferences.



Jisna Johnson, Assistant Professor, B.voc Broadcasting and Journalism, St. Paul's College Kalamassery J Degree in BA English Language and Literature, SH College, Chalakudy Kerala, India (Calicut University)
Post-graduation in Mass Communication and Journalism, St. Josephs College, Irinjalakuda Kerala, India (Calicut University)
Post-graduation in MA English Literature, SH College Chalakudy Kerala, India (Calicut University)
MPhil in Visual Media and Communication, Amrita School of Arts and Science, Kochi Kerala, India (Amrita University)



Dr. Venkata N Inukollu is working as an Assistant Professor in the Department of Computer Science at Purdue University Fortwayne, USA. He graduated with a Ph. D. in Computer Science Engineering from Texas Tech University, Texas, USA. He was awarded Master of Engineering in Software Systems by Birla Institute of Science & Technology (BITS-Pilani), INDIA. He has been teaching and conducting research for more than ten years. He has presented several papers in National and International Journals, Conferences and Symposiums. His key areas of interest include Software Engineering & Applications (Mobile, AI/ML, Security), Software Design & Testing, and internet of Things. He is further exploring his research scholarly interests in the field of Quantum Computing.

CO-EDITOR



Dr. Darshini is an Assistant Professor of Psychology in Sri Ramachandra Institute of Higher Education and Research. She qualified for the UGC- NET in Psychology, for which she was also an awardee of the Junior Research Fellowship (and later Senior Research Fellowship). Additionally, she was the recipient of the Prof. Erika Voigt Young Scientist Award in School Psychology for her PhD thesis. Her area of interest is in Metacognition and she enjoys working with children.

red'shine
PUBLICATION
INDIA

RED'SHINE PUBLICATION PVT. LTD.
88-90 REDMAC, Navamuvada,
Lunawada, Gujarat-389230
Website: www.redshine.co.in
Email: info@redshine.in
Helpline: 0-76988 26988

ISBN 978-93-94727-43-4



9 789394 727434 >

₹ 1000/-

Available on

kindle amazon goodreads Google Books

LAWS AND PRACTICES OF BANKING

**As per Bangalore North University (NEP
syllabus) 2nd semester B. Com 2023-2024**



**Reshma S
Adv Varsha P
Krishnapriya M
Dhini KV**

AUTHORS

Reshma S

M. com, M. Phil
Assistant professor
Gopalan College of Commerce, Bangalore

Adv Varsha P

BAL, LLB, LLM

Krishnapriya M

M. Com, M. Phil,
Assistant Professor
MES Asmabi College, P. Vemballur

Dhini KV

M. Com, B. Ed, NET
Assistant Professor
MES Asmabi College, P. Vemballur

**As per Bangalore North University (NEP
syllabus) 2nd semester B. Com 2023-2024**

Rs 300/-



Blue
Duck
Publications

visit us at: blueduckpublications.com

ISBN: 978-93-93996-28-2



9 789393 996282

BASIC OF ENTREPRENEURSHIP AND MANAGEMENT

(As per V th Semester BA, BSC. AND BBA open course syllabus,
Calicut University 2023-2024)



KRISHNAPRIYA M
SUMA MENON
SINDHU T R
ALPHONSA E K

BASIC OF ENTREPRENEURSHIP AND MANAGEMENT

(As per V th Semester BA, BSC, AND BBA open course syllabus, Calicut University 2023-2024)

AUTHORS

KRISHNAPRIYA M

M. Com, MPhil

Assistant Professor

MES ASMABI COLLEGE, P. VEMBALLUR

SUMA MENON

MBA ,MPHIL, (PhD in Management- Amrita School Of Business, Amritapuri

Assistant Professor, Department Of Management Studies,

Nirmala College Of Arts & Science, Meloor

SINDHU T R

Mcom

Assistant Professor

ST. Teresa's Arts and Science College Mala

ALPHONSA E K

Mcom

Assistant Professor

ST. Teresa's Arts and Science College Mala

AUTHORS BIOGRAPHY

KRISHNAPRIYA M

M. Com, MPhil

Assistant Professor

MES ASMABI COLLEGE, P. VEMBALLUR

SUMA MENON

MBA ,MPHIL, (PhD in Management- Amrita School Of Business, Amritapuri

Assistant Professor, Department Of Management Studies,

Nirmala College Of Arts & Science, Meloor

SINDHU T R

Mcom

Assistant Professor

ST. Teresa's Arts and Science College Mala

ALPHONSA E K

Mcom

Assistant Professor

ST. Teresa's Arts and Science College Mala





NCIATRI²³ ABSTRACTS₂₀

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
1	Prospects of Crustacean Culture and Its Economic Value in Ornamental Aquaculture <i>Aditya Iswaran, Selvaraju Raja & Rajeswari S.</i>	1
2	Price Spread of Fishes in Thrissur District <i>Alisha Ashik*, Shijin C. V., Adhishan, Fathima th suhara P. A., Hyfa P. & Dhanya Pulikkottil Rajan</i>	2
3	Post Monsoon Induced breeding of Ikan koi Kabuto slayer carp, <i>Cyprinus carpio</i> (Cyprinidae) using WOVA FH <i>Alister C. S*, Ahummed Rashid C. R., Riswana V. N., Hafidha, Muhammed Adhil C. S., Vnitha Vijayan & Kesavan K.</i>	3
4	Prevalence of Antibiotic Resistance Among Environmental Bacterial Isolates from Central Coast of Kerala, South India <i>Aneesa K. R*, Mujeeb Rahman K. M., Habeeb rehman H., Fidha Najam, Najma Yousafali & Zubair A. A.</i>	4
5	Comparative Study on Biofloc & Cage Culture System in the Production of Tilapia <i>Anjaly Ratheesh*, Ashwarya K V., Than hath T. S., Devapranav, Dilsemaryam & Shibu A. Nair</i>	5
6	Impact of Malathion on the Biochemical Composition of the Freshwater Fish, <i>Oreochromis Mossambicus</i> <i>Chitra K. C. & Sunniya Abdu</i>	6
7	Quantification and Characterization of Microplastics pollution in the Fishing Zone of Singanallur Lake at Coimbatore, Tamil Nadu, India <i>Ephsy K. Davis & Selvaraju Raja</i>	7
8	Isolation and Identification of <i>Vibrio</i> Species from Selected Harbours of Calicut District <i>Fathima Nesrin P.</i>	8
9	Promotion of Aquaculture in Edavilangu Grama Panchayat, Thrissur District, Kerala <i>Fila Rasheed*, Shahul Hameed P. H., Anjana Vinod, Laya T. P., Njanalakshmi P. S. & Shibu A. Nair</i>	9
10	Biogenic Synthesis of Copper Nanoparticles Using Bacterial Strains Isolated from Soil and Yeast: Characterisation and Potential Application as Antimicrobial Agent <i>Hunais Babu E.* & Shamla A. K.</i>	10
11	Comparative Analysis of the Common Marine Fish Species in Tanzania and India <i>Joyce M. R*, Hassan K. S., Akmal S., Iffath A., Musbiha K. F. & Shibu A. Nair</i>	11

Price Spread of Fishes in Thrissur District

Alisha Ashik*, Shijin C. V., Adhilshan, Fathimath suhara P. A., Hyfa P. & Dhanya Pulikkottil Rajan

Dept. of Aquaculture, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: ashikalisha7@gmail.com

Marketing is an important activity in the marine fisheries sector of our country. Efficiency at marine marketing system could be assessed by analysing the price behaviour of retail markets and landing centres. The paper analysis the price spread of marine fish marketing system in Thrissur district. It was found that there is price difference in different marketing channels. The price spreading occurs mainly through marketing margins, percentage share of fisherman and auctioneer, ice charge, electricity, labour charge, transportation charge, fuel charge, wholesaler charge, retailer charge and vendor charge. The main harvested and marketed fishes are mackerel, sardine, squid, prawn, pink perch and tuna. Tuna has the highest cost among these. The result particularly highlight the need for formulating a uniform market policy for fishes for easy operation and regulation of countries fish production.

KEYWORDS: Fish Consumption, Monthly Expenses, Mackerel, Cheap Source.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:

MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UGC,
Minority Institution Certified by National Minority Education Commission)

Re-accredited by NAAC with B++ grade

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.

Ph : 0480-2850596

e-mail: principal.mesasmabi@gmail.com

website: www.mesasmabicollege.edu.in

MRP : ₹300/-

ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
12	Isolation and Identification of <i>Vibrio</i> Species from Selected Beaches of Calicut District <i>Jumalra E. P.</i>	12
13	Breeding Standardization, Conservation & Biological Disease Control Of <i>Eetroplus suratensis</i> <i>Muhammed Bin Farooq</i>	13
14	Fish Consumption Pattern in Thrissur District <i>Neely T. G., Sandra S Nair, Anusree M. P., Gopika K. S., Ruksana, Krishnana and T. D. & Dhanya Pulikkottil Rajan</i>	14
15	Habitat Variation and Diversity of Zooplankton in Ponnani Waterbodies with Special Reference to Water Quality <i>Raseena Thasni C. M.* & Rishni Bala</i>	15
16	Nutritional Enhancement of Edible Oils Using Crustacean Shell Waste <i>Sayana K. A.* & Sumayya K. S.</i>	16
17	Status of Needle Fish Landing and Length Size Range of <i>Tylosurus acus melanotous</i> From Androth Island Lakshadweep <i>Shahul Hameed P. V. P.* & Ranjeet K.</i>	17
18	Study on Gut Content of Lunar Tailed Big Eye (<i>Priacanthus hamrur</i>) <i>Shameem Ayyappankandathil*, Amrutha Sivadas & Kesavan K.</i>	18
19	Chemical & Physical Food Safety Hazards in Aquaculture Farms: A Study in Kodungallur Area in Thrissur District <i>Sreelakshmi T. P.</i>	19
20	Influence of Chilled Storage on the Biochemical, Sensory and Microbial Quality of Frigate Tuna (<i>Auxis thazard</i>) Meat. <i>Sugaina Sulaiman M. S.</i>	20
21	Assessment of Mosquito Vector Diversity Across Habitats in the Thiruragadi Municipal Area <i>Sumana P.* & Shameema Kodasseri</i>	21
22	Diversity of Coral Reef Fishes of Amini Island of Lakshadweep Archipelago <i>Thayyba P.* & Bijoy C</i>	22
23	Growth Performance Study of <i>Anabas Testudineus</i> by Utilization of Prawn Shell Waste as a Potential Fish Feed Ingredient <i>Ujjwala Navas</i>	23
24	Marketing Margin and Price Spread of Ornamental Fishes in Selected Districts in Kerala <i>Vaishna P. U.</i>	24
25	Freshwater Fish Diversity in Bharathapuzha River, Kerala <i>Veena V, Sasthika G. & Selvaraju Raja</i>	25

Fish Consumption Pattern in Thrissur District

Neely T. G.* , Sandra S Nair, Anusree M. P., Gopika K. S., Ruksana,
Krishnanand T. D. & Dhanya Pulikkottil Rajan

Dept. of Aquaculture, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: neelytg2012@gmail.com

Kerala is one of the important marine fish producing and consuming state in India. Fishes are generally considered as cheap sources of protein and good quality nutrition for human consumption. The paper presents a brief account of abundance of fish consumption among different people. The result particularly highlights the monthly expense spent for fish consumption by people in Thrissur District. It is observed that sardine, mackerel and prawn are mostly consumed fishes. It is noted that mackerel (*Rastrelliger kanagurta*) is the most favoured fish by the population in Thrissur District. Per head consumption pattern of fish was greater for the lower class followed by the middle and upper class.

KEYWORDS: Fish, Consumption, Monthly Expense, Mackerel, Cheap Source.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:

MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)

Re-accredited by NAAC with B++ grade

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.

Ph : 0480-2850596

e-mail: principal.mesasmabi@gmail.com

website: www.mesasmabicollege.edu.in

MRP : ₹300/-

ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
1	Prospects of Crustacean Culture and Its Economic Value in Ornamental Aquaculture <i>Aditya Iswaran, Selvaraju Raja & Rajeswari S.</i>	1
2	Price Spread of Fishes in Thrissur District <i>Alisha Ashik*, Shijin C. V., Adhishan, Fathima th suhara P. A., Hyfa P. & Dhanya Pulikkottil Rajan</i>	2
3	Post Monsoon Induced breeding of Ikan koi Kabuto slayer carp, <i>Cyprinus carpio</i> (Cyprinidae) using WOVA FH <i>Alister C. S*, Ahammed Rashid C. R., Riswana V. N., Hafidha, Muhammed Adhil C. S., Vnitha Vijayan & Kesavan K.</i>	3
4	Prevalence of Antibiotic Resistance Among Environmental Bacterial Isolates from Central Coast of Kerala, South India <i>Aneesa K. R*, Mujeeb Rahman K. M., Habeeb rehman H., Fidha Najam, Najma Yousafali & Zubair A. A.</i>	4
5	Comparative Study on Biofloc & Cage Culture System in the Production of Tilapia <i>Anjaly Ratheesh*, Ashwarya K V., Than hath T. S., Devapranav, Dilsemaryam & Shibu A. Nair</i>	5
6	Impact of Malathion on the Biochemical Composition of the Freshwater Fish, <i>Oreochromis Mossambicus</i> <i>Chitra K. C. & Sunniya Abdu</i>	6
7	Quantification and Characterization of Microplastics pollution in the Fishing Zone of Singanallur Lake at Coimbatore, Tamil Nadu, India <i>Ephsy K. Davis & Selvaraju Raja</i>	7
8	Isolation and Identification of <i>Vibrio</i> Species from Selected Harbours of Calicut District <i>Fathima Nesrin P.</i>	8
9	Promotion of Aquaculture in Edavilangu Grama Panchayat, Thrissur District, Kerala <i>Fala Rasheed*, Shahul Hameed P. H., Anjana Vinod, Laya T. P., Njanalakshmi P. S. & Shibu A. Nair</i>	9
10	Biogenic Synthesis of Copper Nanoparticles Using Bacterial Strains Isolated from Soil and Yeast: Characterisation and Potential Application as Antimicrobial Agent <i>Hunais Babu E.* & Shamla A. K.</i>	10
11	Comparative Analysis of the Common Marine Fish Species in Tanzania and India <i>Joyce M. R*, Hassan K. S., Akmal S., Iffath A., Musbiha K. F. & Shibu A. Nair</i>	11

Post Monsoon Induced breeding of Ikan koi Kabuto slayer carp, *Cyprinus carpio* (Cyprinidae) using WOVA FH

Alistar C. S.* , Ahammed Rashid C. R., Riswana V. N., Hafidha, Muhammed Adhil C. S.,
Vinitha Vijayan & Kesavan K.

Dept. of Aquaculture, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

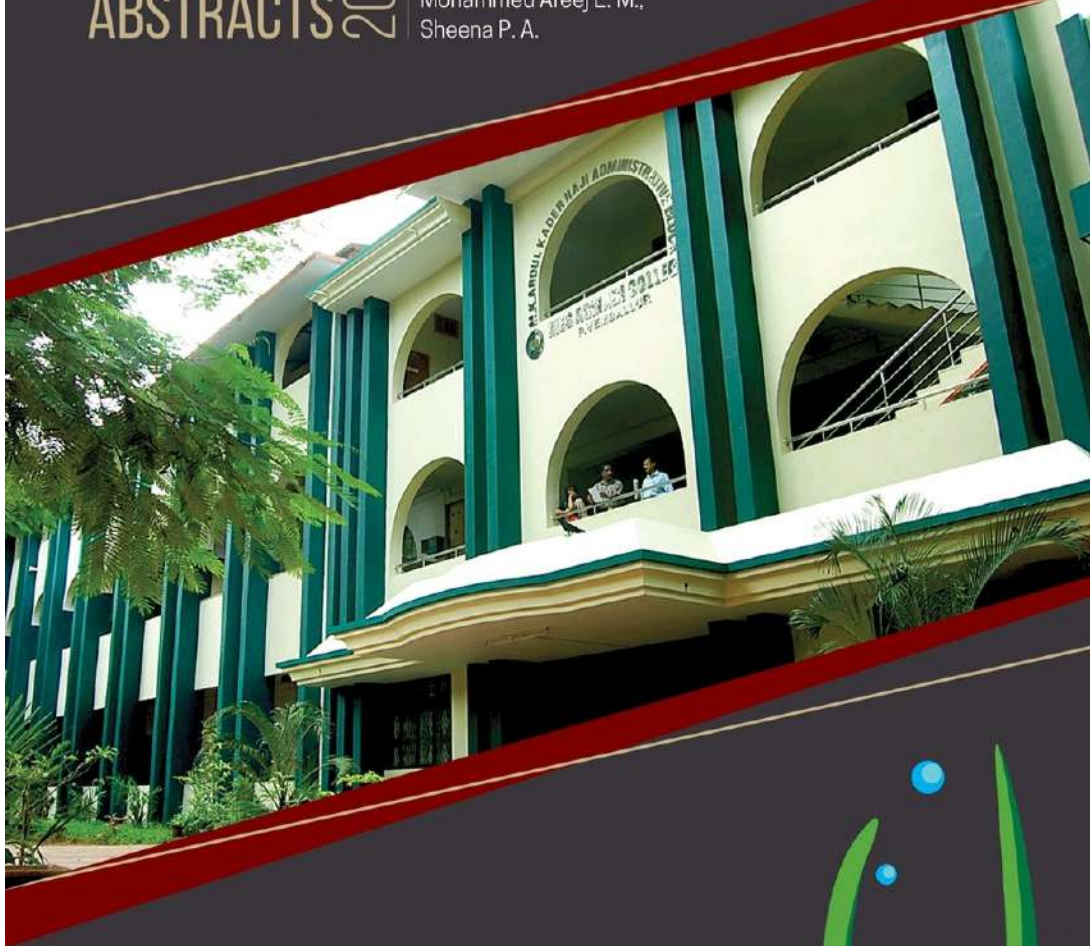
*Corresponding author: alistersiju@gmail.com

The aim of the present study was to perform induced breeding and to observe the larval development of Ikan Koi Kabuto slayer carp (*Cyprinus carpio*) using WOVA FH. The experiment was carried out in aquaculture facilities set in the department of Aquaculture M E S Asmabi College. Fishes were brought to the laboratory in the third week of January 2023, conditioned for one week in freshwater of appropriate quality. After sexing of mature specimens intramuscular injections of WOVA-FH were administered. The dosage of WOVA-FH applied was 0.5 ml/Kg weight. Spawning occurred after 6-8 Hrs of injection. Ordinary tiles in inverted position were set as egg collectors. Egg count, and fertilisation rate were calculated. Eggs were treated with methylene blue to prevent possible infection. Eggs hatched after 48 hrs. post spawning. Larvae are fed with food developed from a packed starter feed 'colostrum'. The larval growth is observed and recorded.

KEYWORDS: *Cyprinus carpio*, Induced Breeding, WOVA- FH, Larval Development.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in

MRP : ₹300/-
ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
12	Isolation and Identification of <i>Vibrio</i> Species from Selected Beaches of Calicut District <i>Jumalra E. P.</i>	12
13	Breeding Standardization, Conservation & Biological Disease Control Of <i>Eetroplus suratensis</i> <i>Muhammed Bin Farooq</i>	13
14	Fish Consumption Pattern in Thrissur District <i>Neely T. G., Sandra S Nair, Anusree M. P., Gopika K. S., Ruksana, Krishnana and T. D. & Dhanya Pulikkottil Rajan</i>	14
15	Habitat Variation and Diversity of Zooplankton in Ponnani Waterbodies with Special Reference to Water Quality <i>Raseena Thasni C. M.* & Rishhi Bala</i>	15
16	Nutritional Enhancement of Edible Oils Using Crustacean Shell Waste <i>Sayana K. A.* & Sumayya K. S.</i>	16
17	Status of Needle Fish Landing and Length Size Range of <i>Tylosurus acus melanotous</i> From Androth Island Lakshadweep <i>Shahul Hameed P. V. P.* & Ranjeet K.</i>	17
18	Study on Gut Content of Lunar Tailed Big Eye (<i>Priacanthus hamrur</i>) <i>Shameem Ayyappankandathil*, Amrutha Sivadas & Kesavan K.</i>	18
19	Chemical & Physical Food Safety Hazards in Aquaculture Farms: A Study in Kodungallur Area in Thrissur District <i>Sreelakshmi T. P.</i>	19
20	Influence of Chilled Storage on the Biochemical, Sensory and Microbial Quality of Frigate Tuna (<i>Auxis thazard</i>) Meat. <i>Sugaina Sulaiman M. S.</i>	20
21	Assessment of Mosquito Vector Diversity Across Habitats in the Thiruragadi Municipal Area <i>Sumana P.* & Shameema Kodasseri</i>	21
22	Diversity of Coral Reef Fishes of Amini Island of Lakshadweep Archipelago <i>Thayyba P.* & Bijoy C</i>	22
23	Growth Performance Study of <i>Anabas Testudineus</i> by Utilization of Prawn Shell Waste as a Potential Fish Feed Ingredient <i>Ujjwala Navas</i>	23
24	Marketing Margin and Price Spread of Ornamental Fishes in Selected Districts in Kerala <i>Vaishna P. U.</i>	24
25	Freshwater Fish Diversity in Bharathapuzha River, Kerala <i>Veena V, Sasthika G. & Selvaraju Raja</i>	25

Study on Gut Content of Lunar Tailed Big Eye (*Priacanthus hamrur*)

Shameem Ayyappankandathil^{1*}, Amrutha Sivas & Kesavan K.²

¹PG & Research Dept. of Aquaculture and Fishery Microbiology, MES Ponnani College, Ponnani, Malappuram, Kerala.

²Dept. of Aquaculture, MES Asmabi College, P Vemballur, Kodungallur, Kerala.

*Corresponding author: akshameem26@gmail.com

Fish gut content analysis provides a general information about the feeding patterns of a fish. Quantitative assessment of feeding habits is important in management of fisheries. Through the analysis of gut content a better idea about the fish diet is also identified. Fish diet is an integration of many components which are ecological important which includes behavior, condition, habitat use, energy intake and different inter-intra specific interactions etc. Valid information about fish diets and feeding habits gives an idea. To analyze the gut content of the selected species using different methods and critically assess the gut content in relation to feeding habits of the fish. The samples were collected from Munambam harbour, Thrissur district. There are a total of 4 samples collected on different dates of one week interval starting from 09/02/2022 and all these were females, three of them were immature ones and the other one was a specimen with mature ovary. The specimens were transported immediately obtaining them from the harbor by packing in polythene covers containing crushed ice. *Priacanthus hamrur* is exclusively carnivorous. Crustaceans are the most preferred food item of the fish. Though other food items are also seen in the gut the fish seems to show selectivity towards crustaceans. The food items like amphipods (component of benthic fauna) in the gut are an indicator of the fish as a demersal fish. But frequent appearance of planktonic organisms like calanoid copepods and sergestids gives the impression that the fish finds its prey in water column as well.

26

KEYWORDS: *Priacanthus hamrur*.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in



MRP : ₹300/-
ISBN: 978-93-5813-509-1



NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
1	Prospects of Crustacean Culture and Its Economic Value in Ornamental Aquaculture <i>Aditya Iswaran, Selvaraju Raja & Rajeswari S.</i>	1
2	Price Spread of Fishes in Thrissur District <i>Alisha Ashik*, Shijin C. V., Adhishan, Fathima th suhara P. A., Hyfa P. & Dhanya Pulikkottil Rajan</i>	2
3	Post Monsoon Induced breeding of Ikan koi Kabuto slayer carp, <i>Cyprinus carpio</i> (Cyprinidae) using WOVA FH <i>Alister C. S*, Ahammed Rashid C. R., Riswana V. N., Hafidha, Muhammed Adhil C. S., Vinitha Vijayan & Kesavan K.</i>	3
4	Prevalence of Antibiotic Resistance Among Environmental Bacterial Isolates from Central Coast of Kerala, South India <i>Aneesa K. R*, Mujeeb Rahman K. M., Habeeb rehman H., Fidha Najam, Najma Yousafali & Zubair A. A.</i>	4
5	Comparative Study on Biofloc & Cage Culture System in the Production of Tilapia <i>Anjaly Ratheesh*, Ashwarya K V., Than hath T. S., Devapranav, Dilsemaryam & Shibu A. Nair</i>	5
6	Impact of Malathion on the Biochemical Composition of the Freshwater Fish, <i>Oreochromis Mossambicus</i> <i>Chitra K. C. & Sunniya Abdu</i>	6
7	Quantification and Characterization of Microplastics pollution in the Fishing Zone of Singanallur Lake at Coimbatore, Tamil Nadu, India <i>Ephsy K. Davis & Selvaraju Raja</i>	7
8	Isolation and Identification of <i>Vibrio</i> Species from Selected Harbours of Calicut District <i>Fathima Nesrin P.</i>	8
9	Promotion of Aquaculture in Edavilangu Grama Panchayat, Thrissur District, Kerala <i>Fala Rasheed*, Shahul Hameed P. H., Anjana Vinod, Laya T. P., Njanalakshmi P. S. & Shibu A. Nair</i>	9
10	Biogenic Synthesis of Copper Nanoparticles Using Bacterial Strains Isolated from Soil and Yeast: Characterisation and Potential Application as Antimicrobial Agent <i>Hunais Babu E.* & Shamla A. K.</i>	10
11	Comparative Analysis of the Common Marine Fish Species in Tanzania and India <i>Joyce M. R*, Hassan K. S., Akmalia S., Iffath A., Musbiha K. F. & Shibu A. Nair</i>	11

Comparative Study on Biofloc & Cage Culture System in the Production of Tilapia

Anjaly Ratheesh*, Aishwarya K. V., Thanhath T. S., Devapranav, Dilsemariyam & Shibu A. Nair

Dept. of Aquaculture, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: anjalyratheeshanju@gmail.com

Tilapia culture presents high potential for income generation and hunger alleviation in developing countries. Suitable culture technology can help to achieve such goals sustainably. This work aimed to comparatively evaluate the influence of cage culture and Biofloc. The result indicated that output can be improved with production system. From the comparative reports cage culture is the most profitable, environment friendly and less man power culture system.

KEYWORDS: Biofloc, Production System, Profitable, Income Generation.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in



MRP : ₹300/-
ISBN: 978-93-5813-509-1



NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
1	Prospects of Crustacean Culture and Its Economic Value in Ornamental Aquaculture <i>Aditya Iswaran, Selvaraju Raja & Rajeswari S.</i>	1
2	Price Spread of Fishes in Thrissur District <i>Alisha Ashik*, Shijin C. V., Adhikshan, Fathima th suhara P. A., Hyfa P. & Dhanya Pulikkottil Rajan</i>	2
3	Post Monsoon Induced breeding of Ikan koi Kabuto slayer carp, <i>Cyprinus carpio</i> (Cyprinidae) using WOVA FH <i>Alister C. S*, Ahammed Rashid C. R., Rishwana V. N., Hafidha, Muhammed Adhil C. S., Vinitha Vijayan & Kesavan K.</i>	3
4	Prevalence of Antibiotic Resistance Among Environmental Bacterial Isolates from Central Coast of Kerala, South India <i>Aneesa K. R*, Mujeeb Rahman K. M., Habeeb rehman H., Fidha Najam, Najma Yousafali & Zubair A. A.</i>	4
5	Comparative Study on Biofloc & Cage Culture System in the Production of Tilapia <i>Anjaly Ratheesh*, Akshwarya K V., Than hath T. S., Devapranav, Dilsemariyam & Shibu A. Nair</i>	5
6	Impact of Malathion on the Biochemical Composition of the Freshwater Fish, <i>Oreochromis Mossambicus</i> <i>Chitra K. C. & Sunniya Abdu</i>	6
7	Quantification and Characterization of Microplastics pollution in the Fishing Zone of Singanallur Lake at Coimbatore, Tamil Nadu, India <i>Ephsy K. Davis & Selvaraju Raja</i>	7
8	Isolation and Identification of <i>Vibrio</i> Species from Selected Harbours of Calicut District <i>Fathima Nesrin P.</i>	8
9	Promotion of Aquaculture in Edavilangu Grama Panchayat, Thrissur District, Kerala <i>Fala Rasheed*, Shahul Hameed P. H., Anjana Vinod, Laya T. P., Njanalakshmi P. S. & Shibu A. Nair</i>	9
10	Biogenic Synthesis of Copper Nanoparticles Using Bacterial Strains Isolated from Soil and Yeast: Characterisation and Potential Application as Antimicrobial Agent <i>Hunais Babu E.* & Shamla A. K.</i>	10
11	Comparative Analysis of the Common Marine Fish Species in Tanzania and India <i>Joyce M. R*, Hassan K. S., Akmalia S., Iffath A., Musbiha K. F. & Shibu A. Nair</i>	11

Promotion of Aquaculture in Edavilangu Grama Panchayat, Thrissur District, Kerala

Fida Rasheed*, Shahul Hameed P. H. , Anjana Vinod, Laya T. P. , Njanalakshmi P. S. & Shibu A. Nair
Dept. of Aquaculture, MES Asmabi College, P. Vembalthur, Kodungallur, Kerala.
Corresponding author: fidufid123@gmail.com

Aquaculture contributes to poverty alleviation as it provides employment to millions of people. The major systems of culture practiced are Aquaponics, Biofloc, Recirculating Aquaculture System and Tarpaulin pond. This study attempts to present the involvement of central and state governments in promotion and development of aquaculture through local bodies. The study is conducted in Edavilangu Grama Panchayat. The study reveals women empowerment and social upliftment. The financial assistance was made by PMMSY of central government and Government of Kerala. PMMSY contributed 60% of fund for women, SC and ST entrepreneurs. 40% of fund was contributed by Government of Kerala. Due to such financial assistance from central and state governments, potential use of water bodies, women empowerment and overall social development was realised.

KEYWORDS: Development, Women Empowerment, PMMSY.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in



MRP : ₹300/-
ISBN: 978-93-5813-509-1



NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
1	Prospects of Crustacean Culture and Its Economic Value in Ornamental Aquaculture <i>Aditya Iswaran, Selvaraju Raja & Rajeswari S.</i>	1
2	Price Spread of Fishes in Thrissur District <i>Alisha Ashik*, Shijin C. V., Adhikshan, Fathima th suhara P. A., Hyfa P. & Dhanya Pulikkottil Rajan</i>	2
3	Post Monsoon Induced breeding of Ikan koi Kabuto slayer carp, <i>Cyprinus carpio</i> (Cyprinidae) using WOVA FH <i>Alister C. S*, Ahammed Rashid C. R., Rishwana V.N., Hafidha, Muhammed Adhil C. S., Vinitha Vijayan & Kesavan K.</i>	3
4	Prevalence of Antibiotic Resistance Among Environmental Bacterial Isolates from Central Coast of Kerala, South India <i>Aneesa K. R*, Mujeeb Rahman K. M., Habeeb rehman H., Fidha Najam, Najma Yousafali & Zubair A. A.</i>	4
5	Comparative Study on Biofloc & Cage Culture System in the Production of Tilapia <i>Anjaly Ratheesh*, Aishwarya K V., Than hath T. S., Devapranav, Dilsemariyam & Shibu A. Nair</i>	5
6	Impact of Malathion on the Biochemical Composition of the Freshwater Fish, <i>Oreochromis Mossambicus</i> <i>Chitra K. C. & Sunniya Abdu</i>	6
7	Quantification and Characterization of Microplastics pollution in the Fishing Zone of Singanallur Lake at Coimbatore, Tamil Nadu, India <i>Ephsy K. Davis & Selvaraju Raja</i>	7
8	Isolation and Identification of <i>Vibrio</i> Species from Selected Harbours of Calicut District <i>Fathima Nesrin P.</i>	8
9	Promotion of Aquaculture in Edavilangu Grama Panchayat, Thrissur District, Kerala <i>Fala Rasheed*, Shahul Hameed P. H., Anjana Vinod, Laya T. P., Njanalakshmi P. S. & Shibu A. Nair</i>	9
10	Biogenic Synthesis of Copper Nanoparticles Using Bacterial Strains Isolated from Soil and Yeast: Characterisation and Potential Application as Antimicrobial Agent <i>Hunais Babu E.* & Shamla A. K.</i>	10
11	Comparative Analysis of the Common Marine Fish Species in Tanzania and India <i>Joyce M. R*, Hassan K. S., Akmalia S., Iffath A., Musbiha K. F. & Shibu A. Nair</i>	11

Comparative Analysis of the Common Marine Fish Species in Tanzania and India

Joyce M. R.^{*}, Hassan K. S., Akmalia S., Iffath A., Musbiha K. F. & Shibu A. N.

Dept. of Aquaculture, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

^{*}Corresponding author: jmrphae108@hotmail.com

Fisheries resource refer to the products or output that arises from capture fishery and Aquaculture, more than 120 million people throughout the World are estimated to depend on fish their income hence ensuring food security and raising the protein level of nation's populace and improving their welfare. The paper presents a brief comparative analysis of the most common marine fish species in Tanzania and India. The result particularly highlights that India has wide range of water bodies and varieties of fishes. It has observed that most of states in India are access to ocean and sea making them available in the market.

Tanzania having almost similar varieties of fish but having inland water bodies that have unfamiliar fish species. Species such as Peacock grouper, India mackerel, Indian squids, Sword fish, Giant tiger prawn and King fish are observed to be most dominated in Tanzania and India. The price of almost all species differ slightly depend on the availability of the species and market demand in Tanzania and India.

KEYWORDS: Fish, Marine, Common Species, Price Variation.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in

MRP : ₹300/-
ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
1	Prospects of Crustacean Culture and Its Economic Value in Ornamental Aquaculture <i>Aditya Iswaran, Selvaraju Raja & Rajeswari S.</i>	1
2	Price Spread of Fishes in Thrissur District <i>Alisha Ashik*, Shijin C. V., Adhishan, Fathima th suhara P. A., Hyfa P. & Dhanya Pulikkottil Rajan</i>	2
3	Post Monsoon Induced breeding of Ikan koi Kabuto slayer carp, <i>Cyprinus carpio</i> (Cyprinidae) using WOVA FH <i>Alister C. S*, Ahammed Rashid C. R., Riswana V. N., Hafidha, Muhammed Adhil C. S., Vinitha Vijayan & Kesavan K.</i>	3
4	Prevalence of Antibiotic Resistance Among Environmental Bacterial Isolates from Central Coast of Kerala, South India <i>Aneesa K. R*, Mujeeb Rahman K. M., Habeeb rehman H., Fidha Najam, Najma Yousafali & Zubair A. A.</i>	4
5	Comparative Study on Biofloc & Cage Culture System in the Production of Tilapia <i>Anjaly Ratheesh*, Ashwarya K V., Than hath T. S., Devapranav, Dilsemaryam & Shibu A. Nair</i>	5
6	Impact of Malathion on the Biochemical Composition of the Freshwater Fish, <i>Oreochromis Mossambicus</i> <i>Chitra K. C. & Sunniya Abdu</i>	6
7	Quantification and Characterization of Microplastics pollution in the Fishing Zone of Singanallur Lake at Coimbatore, Tamil Nadu, India <i>Ephsy K. Davis & Selvaraju Raja</i>	7
8	Isolation and Identification of <i>Vibrio</i> Species from Selected Harbours of Calicut District <i>Fathima Nesrin P.</i>	8
9	Promotion of Aquaculture in Edavilangu Grama Panchayat, Thrissur District, Kerala <i>Fala Rasheed*, Shahul Hameed P. H., Anjana Vinod, Laya T. P., Njanalakshmi P. S. & Shibu A. Nair</i>	9
10	Biogenic Synthesis of Copper Nanoparticles Using Bacterial Strains Isolated from Soil and Yeast: Characterisation and Potential Application as Antimicrobial Agent <i>Hunais Babu E.* & Shamla A. K.</i>	10
11	Comparative Analysis of the Common Marine Fish Species in Tanzania and India <i>Joyce M. R*, Hassan K. S., Akmal S., Iffath A., Musbiha K. F. & Shibu A. Nair</i>	11

Impact of Malathion on the Biochemical Composition of the Freshwater Fish, *Oreochromis Mossambicus*

Chitra K. C.¹ & Sunniya Abdu^{2*}

¹Dept. of Zoology, University of Calicut, Thengipalam, Kerala, India.

²Dept. of Aquaculture, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: sunniyaabdu@gmail.com

The aim of the present study was to evaluate the effect of malathion on the antioxidant status in the liver of adult freshwater fish, *Oreochromis mossambicus*. Malathion at sublethal concentration (0.125 mg/L) was used as the test dose and the treatment was given for 24, 48 and 96 h to ten animals in each group maintaining a control group. Malathion generates reactive oxygen species in the liver of the fishes which is evident by the time-dependent reduction in the antioxidant enzymes and concomitant increase in the lipid peroxidation. However, there were no significant changes in the antioxidant parameters in brain of malathion-treated fishes. Thus the present study reveals that the antioxidant enzyme potential is very poor in liver when compared with that of brain. On the other hand, the present study also showed a significant decrease in the marker enzyme, alkaline phosphatase in the liver after 96 h of malathion treatment. Alkaline phosphatase, a hydrolyase enzyme are involved in the mediation of membrane transport and transphosphorylation.

A decreased alkaline phosphatase activity in liver of malathion-treated animal indicate the decreased state of inter and intracellular membrane transport and possibly this could be due to the toxicity of malathion. In the malathion-treated fishes, the hepatocytes have lost their normal architecture and large number of these cells appeared with pyknotic nuclei. The intrahepatic blood vessels were dilated and congested with blood, and inflammatory leucocytic infiltrations were also observed. Numerous hepatocytes showed marked cytoplasmic vacuolization. Thus malathion induces toxic stress to the exposed fishes, which is obvious by the histopathological changes in the liver. Thus the present study reveals that malathion induced oxidative stress in liver of *Oreochromis* by inducing reactive oxygen species generation.

KEYWORDS: Malathion, Liver, Antioxidant Enzymes, ROS, Alkaline Phosphatase, *Oreochromis*.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:

MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)

Re-accredited by NAAC with B++ grade

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.

Ph : 0480-2850596

e-mail: principal.mesasmabi@gmail.com

website: www.mesasmabicollege.edu.in

MRP : ₹300/-

ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
12	Isolation and Identification of <i>Vibrio</i> Species from Selected Beaches of Calicut District <i>Jumalra E. P.</i>	12
13	Breeding Standardization, Conservation & Biological Disease Control Of <i>Eetroplus suratensis</i> <i>Muhammed Bin Farooq</i>	13
14	Fish Consumption Pattern in Thrissur District <i>Neely T. G., Sandra S Nair, Anusree M. P., Gopika K. S., Ruksana, Krishnana and T. D. & Dhanya Pulikkottil Rajan</i>	14
15	Habitat Variation and Diversity of Zooplankton in Ponnani Waterbodies with Special Reference to Water Quality <i>Raseena Thasni C. M.* & Rishni Bala</i>	15
16	Nutritional Enhancement of Edible Oils Using Crustacean Shell Waste <i>Sayana K. A.* & Sumayya K. S.</i>	16
17	Status of Needle Fish Landing and Length Size Range of <i>Tylosurus acus melanotous</i> From Androth Island Lakshadweep <i>Shahul Hameed P. V. P.* & Ranjeet K.</i>	17
18	Study on Gut Content of Lunar Tailed Big Eye (<i>Priacanthus hamrur</i>) <i>Shameem Ayyappankandathil*, Amrutha Sivadas & Kesavan K.</i>	18
19	Chemical & Physical Food Safety Hazards in Aquaculture Farms: A Study in Kodungallur Area in Thrissur District <i>Sreelakshmi T. P.</i>	19
20	Influence of Chilled Storage on the Biochemical, Sensory and Microbial Quality of Frigate Tuna (<i>Auxis thazard</i>) Meat. <i>Sugaina Sulaiman M. S.</i>	20
21	Assessment of Mosquito Vector Diversity Across Habitats in the Thiruragadi Municipal Area <i>Sumana P.* & Shameema Kodasseri</i>	21
22	Diversity of Coral Reef Fishes of Amini Island of Lakshadweep Archipelago <i>Thayyba P.* & Bijoy C</i>	22
23	Growth Performance Study of <i>Anabas Testudineus</i> by Utilization of Prawn Shell Waste as a Potential Fish Feed Ingredient <i>Ujjwala Navas</i>	23
24	Marketing Margin and Price Spread of Ornamental Fishes in Selected Districts in Kerala <i>Vaishna P. U.</i>	24
25	Freshwater Fish Diversity in Bharathapuzha River, Kerala <i>Veena V., Saskala G. & Selvaraju Raja</i>	25

Nutritional Enhancement of Edible Oils Using Crustacean Shell Waste

Sayana K. A.* & Sumayya K. S.

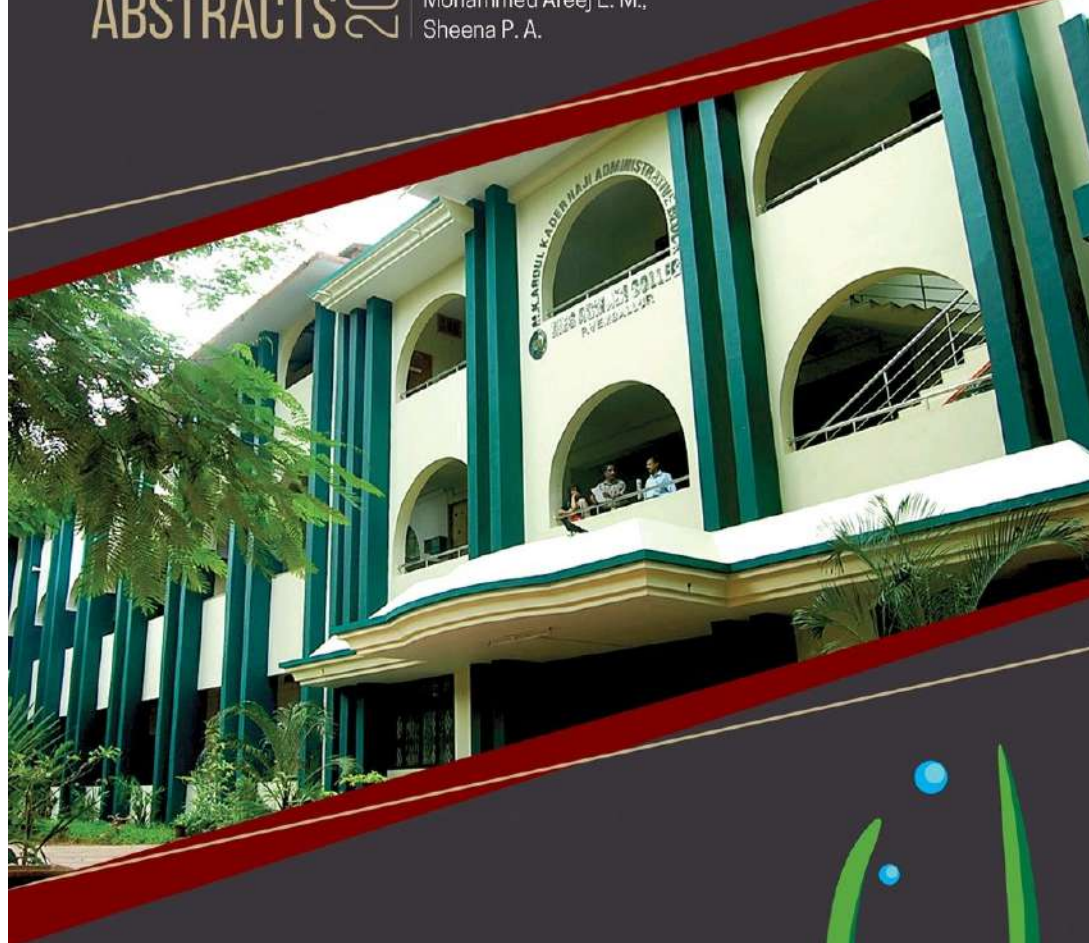
Dept. of Aquaculture, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: sayanaanandan@gmail.com

Enormous increase in shrimp shell waste production has been accounted as a major problem faced by seafood industry globally. Even though growth in shrimp utilisation and export is a reason for global development, on other side the impacts are also growing abundantly. The primary way for discarding this waste is dumping into water resources including oceans which causes intense environmental pollution (Suresh 2012). Hence reutilisation of shrimp shell waste has emerged as new area of research since decades. Shrimp shell contains numerous bioactive components such as chitin, fatty acids, amino acids, minerals and pigments which has different industrial applications. The current article presents the simplest way to utilise shrimp shell waste to enhance nutritional quality of edible oil, sunflower oil. The only nutritional elements present in sunflower oils are fats and fat-soluble vitamins. Here presents a simplest method to incorporate active ingredients from shrimp shell to oil, boiling the oil with shell waste in it. Using the waste generated from one kg of shell waste used in one litre of oil and the results showed enhancement in minerals such as potassium, sodium, calcium and zinc and a fractional increment in protein is also reported.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in

MRP : ₹300/-
ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
12	Isolation and Identification of <i>Vibrio</i> Species from Selected Beaches of Calicut District <i>Jumalra E. P.</i>	12
13	Breeding Standardization, Conservation & Biological Disease Control Of <i>Eetroplus suratensis</i> <i>Muhammed Bin Farooq</i>	13
14	Fish Consumption Pattern in Thrissur District <i>Neely T. G., Sandra S Nair, Anusree M. P., Gopika K. S., Ruksana, Krishnana and T. D. & Dhanya Pulikkottil Rajan</i>	14
15	Habitat Variation and Diversity of Zooplankton in Ponnani Waterbodies with Special Reference to Water Quality <i>Raseena Thasni C. M.* & Rishhi Bala</i>	15
16	Nutritional Enhancement of Edible Oils Using Crustacean Shell Waste <i>Sayana K. A.* & Sumayya K. S.</i>	16
17	Status of Needle Fish Landing and Length Size Range of <i>Tylosurus acus melanotous</i> From Androth Island Lakshadweep <i>Shahul Hameed P. V. P.* & Ranjeet K.</i>	17
18	Study on Gut Content of Lunar Tailed Big Eye (<i>Priacanthus hamrur</i>) <i>Shameem Ayyappankandathil*, Amrutha Sivadas & Kesavan K.</i>	18
19	Chemical & Physical Food Safety Hazards in Aquaculture Farms: A Study in Kodungallur Area in Thrissur District <i>Sreelakshmi T. P.</i>	19
20	Influence of Chilled Storage on the Biochemical, Sensory and Microbial Quality of Frigate Tuna (<i>Auxis thazard</i>) Meat. <i>Sugaina Sulaiman M. S.</i>	20
21	Assessment of Mosquito Vector Diversity Across Habitats in the Thiruragadi Municipal Area <i>Sumana P.* & Shameema Kodasseri</i>	21
22	Diversity of Coral Reef Fishes of Amini Island of Lakshadweep Archipelago <i>Thayyba P.* & Bijoy C</i>	22
23	Growth Performance Study of <i>Anabas Testudineus</i> by Utilization of Prawn Shell Waste as a Potential Fish Feed Ingredient <i>Ujjwala Navas</i>	23
24	Marketing Margin and Price Spread of Ornamental Fishes in Selected Districts in Kerala <i>Vaishna P. U.</i>	24
25	Freshwater Fish Diversity in Bharathapuzha River, Kerala <i>Veena V, Sasthika G. & Selvaraju Raja</i>	25

Influence of Chilled Storage on the Biochemical, Sensory and Microbial Quality of Frigate Tuna (*Auxis thazard*) Meat.

Sugaina Sulaiman M. S.

Dept. of Aquaculture, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

Mail id: sugainamsulaiman@gmail.com

The biochemical , bacteriological and organoleptic changes in Frigate Tuna (*Auxis thazard*) meat during chilled temperature storage have been studied. In this study tuna sample collected from Ponnani harbour in Malappuram district. There was a decrease in the proportion of soluble fractions of protein during storage. it was observed that the initial value of the TVBN in the meat was low,TVBN content increased on storage from an 0.75% to 1.85% ie, it does not increased acceptable limit. Moisture content of the white meat was 73.7% and moisture content of the red meat was 71.4%.The proportion of the crude protein in white meat 18.90% and red meat was 18.28%.the moisture content registered a steadily increase from 73.7% to 76.3% over 16 days. The initial bacterial load was 1.23×10^6 cfu in iced condition the colony counts variation are obtained microbial parameters such as *V.cholerae* and *E.coli* was absent in storage condition.The overall organoleptic quality of the meat progressively deteriorated over the period of storageon the 16th day ,the meat had slightly fair in condition.However no bad odour was noticed during any stage of this study. Finally, storing tuna fish meat for up to 14 days exhibited no detrimental nutritional consequences and the safe for consumption.

KEYWORDS: Tuna, Frozen Storage, Soluble Proteins, Quality Changes.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in

MRP : ₹300/-
ISBN: 978-93-5813-509-1





MES AIYAR COLLEGE
KUMBALANGI

NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
12	Isolation and Identification of <i>Vibrio</i> Species from Selected Beaches of Calicut District <i>Jumalra E. P.</i>	12
13	Breeding Standardization, Conservation & Biological Disease Control Of <i>Eetroplus suratensis</i> <i>Muhammed Bin Farooq</i>	13
14	Fish Consumption Pattern in Thrissur District <i>Neely T. G., Sandra S Nair, Anusree M. P., Gopika K. S., Ruksana, Krishnana and T. D. & Dhanya Pulikkottil Rajan</i>	14
15	Habitat Variation and Diversity of Zooplankton in Ponnani Waterbodies with Special Reference to Water Quality <i>Raseena Thasni C. M.* & Rishhi Bala</i>	15
16	Nutritional Enhancement of Edible Oils Using Crustacean Shell Waste <i>Sayana K. A.* & Sumayya K. S.</i>	16
17	Status of Needle Fish Landing and Length Size Range of <i>Tylosurus acus melanotous</i> From Androth Island Lakshadweep <i>Shahul Hameed P. V. P.* & Ranjeet K.</i>	17
18	Study on Gut Content of Lunar Tailed Big Eye (<i>Priacanthus hamrur</i>) <i>Shameem Ayyappankandathil*, Amrutha Sivadas & Kesavan K.</i>	18
19	Chemical & Physical Food Safety Hazards in Aquaculture Farms: A Study in Kodungallur Area in Thrissur District <i>Sreelakshmi T. P.</i>	19
20	Influence of Chilled Storage on the Biochemical, Sensory and Microbial Quality of Frigate Tuna (<i>Auxis thazard</i>) Meat. <i>Sugaina Sulaiman M. S.</i>	20
21	Assessment of Mosquito Vector Diversity Across Habitats in the Thiruragadi Municipal Area <i>Sumana P.* & Shameema Kodasseri</i>	21
22	Diversity of Coral Reef Fishes of Amini Island of Lakshadweep Archipelago <i>Thayyba P.* & Bijoy C</i>	22
23	Growth Performance Study of <i>Anabas Testudineus</i> by Utilization of Prawn Shell Waste as a Potential Fish Feed Ingredient <i>Ujjwala Navas</i>	23
24	Marketing Margin and Price Spread of Ornamental Fishes in Selected Districts in Kerala <i>Vaishna P. U.</i>	24
25	Freshwater Fish Diversity in Bharathapuzha River, Kerala <i>Veena V, Saskala G. & Selvaraju Raja</i>	25

Chemical & Physical Food Safety Hazards in Aquaculture Farms: A Study in Kodungallur Area in Thrissur District

Sreelakshmi T. P.

Dept. of Aquaculture, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

Mail id: akshameem26@gmail.com

The project report entitled to "Chemical & Physical food safety hazards in aquaculture farms: a study in Kodungallur area Thrissur district." The main objective of the study is to comparatively analyze farmers experience and expertise with the steps taken in avoiding chemical & physical hazards in farm. It is the process to list down the possible chemical & physical hazards based on the literature. To carry out the survey about possible chemical & physical food safety hazards in aquaculture farm in Kodungallur area. Primary data is collected through survey questionnaires, for this questionnaire will be framed. Altogether 22 farmers were interviewed from the Kodungallur area. Secondary data related to this study were collected from various sources such as government publications, National & International journals, and books from CUSAT library, published and unpublished thesis and related websites.

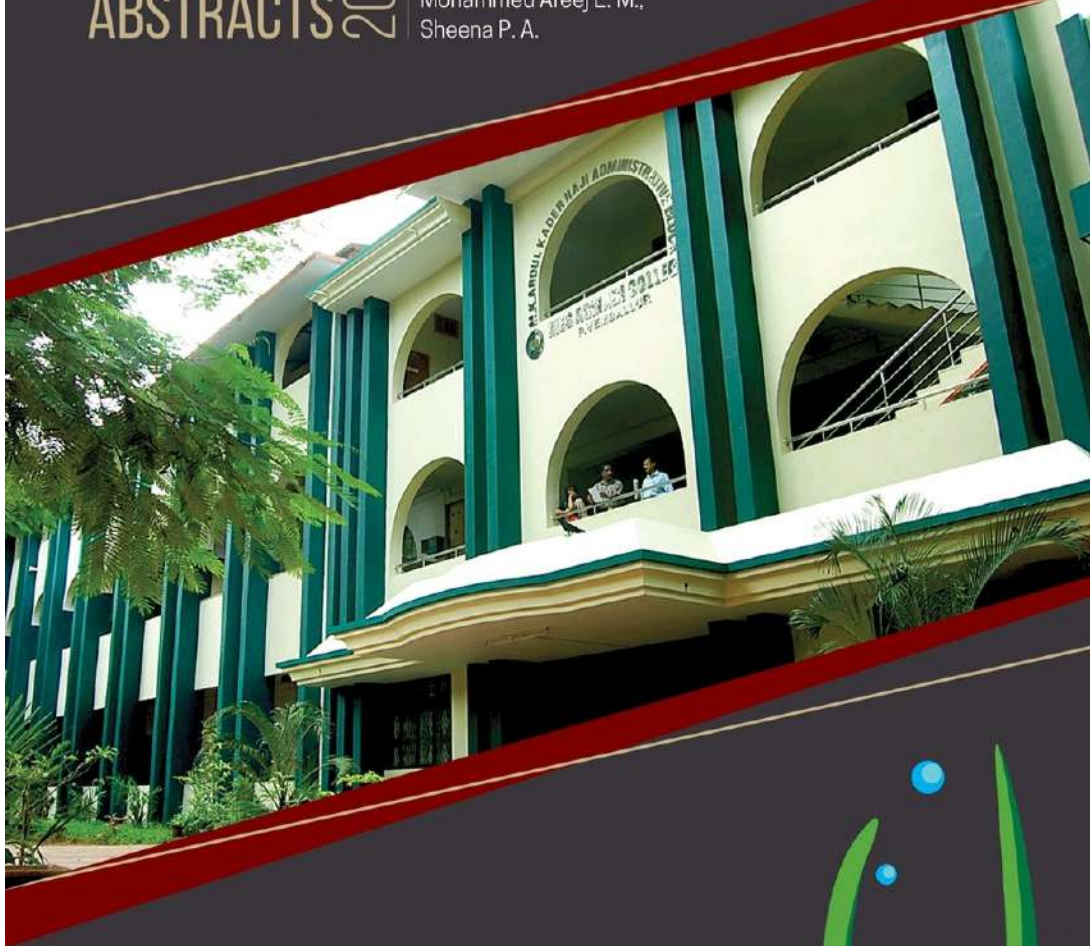
The various tools used for the study SPSS version 23 & Microsoft excel 2013. Tables and frequency distribution table were used for better understanding. Through the analysis of frequency distribution table, we get an idea about the chemical and physical hazards in the aquaculture farms.

The survey showed that the various responds about the chemical and physical food safety hazards in aquaculture farms in Kodungallur area. From the data in Kodungallur area most of the farmers aware about the chemical and physical food safety hazards. On the other hand, some of them have no idea about this. The study recommends to Use only non-persistent chemicals and set of guidelines for environmentally sound aquaculture practices which can help prevent the indiscriminate use of chemicals.

KEYWORDS: Chemical Hazards, Non-persistent Chemicals, Food Safety.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:

MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)

Re-accredited by NAAC with B++ grade

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.

Ph : 0480-2850596

e-mail: principal.mesasmabi@gmail.com

website: www.mesasmabicollege.edu.in

MRP : ₹300/-

ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
12	Isolation and Identification of <i>Vibrio</i> Species from Selected Beaches of Calicut District <i>Jumalra E. P.</i>	12
13	Breeding Standardization, Conservation & Biological Disease Control Of <i>Eetroplus suratensis</i> <i>Muhammed Bin Farooq</i>	13
14	Fish Consumption Pattern in Thrissur District <i>Neely T. G., Sandra S Nair, Anusree M. P., Gopika K. S., Ruksana, Krishnana and T. D. & Dhanya Pulikkottil Rajan</i>	14
15	Habitat Variation and Diversity of Zooplankton in Ponnani Waterbodies with Special Reference to Water Quality <i>Raseena Thasni C. M.* & Rishhi Bala</i>	15
16	Nutritional Enhancement of Edible Oils Using Crustacean Shell Waste <i>Sayana K. A.* & Sumayya K. S.</i>	16
17	Status of Needle Fish Landing and Length Size Range of <i>Tylosurus acus melanotous</i> From Androth Island Lakshadweep <i>Shahul Hameed P. V. P.* & Ranjeet K.</i>	17
18	Study on Gut Content of Lunar Tailed Big Eye (<i>Priacanthus hamrur</i>) <i>Shameem Ayyappankandathil*, Amrutha Sivadas & Kesavan K.</i>	18
19	Chemical & Physical Food Safety Hazards in Aquaculture Farms: A Study in Kodungallur Area in Thrissur District <i>Sreelakshmi T. P.</i>	19
20	Influence of Chilled Storage on the Biochemical, Sensory and Microbial Quality of Frigate Tuna (<i>Auxis thazard</i>) Meat. <i>Sugaina Sulaiman M. S.</i>	20
21	Assessment of Mosquito Vector Diversity Across Habitats in the Thiruragadi Municipal Area <i>Sumana P.* & Shameema Kodasseri</i>	21
22	Diversity of Coral Reef Fishes of Amini Island of Lakshadweep Archipelago <i>Thayyba P.* & Bijoy C</i>	22
23	Growth Performance Study of <i>Anabas Testudineus</i> by Utilization of Prawn Shell Waste as a Potential Fish Feed Ingredient <i>Ujjwala Navas</i>	23
24	Marketing Margin and Price Spread of Ornamental Fishes in Selected Districts in Kerala <i>Vaishna P. U.</i>	24
25	Freshwater Fish Diversity in Bharathapuzha River, Kerala <i>Veena V, Sasthika G. & Selvaraju Raja</i>	25

Growth Performance Study of *Anabas Testudineus* by Utilization of Prawn Shell Waste as a Potential Fish Feed Ingredient

Ujjwala Navas

Dept. of Fish Processing Technology, M.E.S. Asmabi College, P.Vemballur, Kodungallur, Kerala

Mail id: ujjwalanavas80@gmail.com

Fish meal is habitually considered as the major protein source in fish feed for fish culture. Rising cost, deteriorating quality and unavailability of fishmeal caused huge difficulty in modern aquaculture, particularly for fish nutrition. Nearly all *Anabas testudineus* cultures faced loss, due to high feed costs, inappropriate feed formulation and management. So it was necessary to find a profitable replacement of fishmeal, which could provide better growth performance to *A. testudineus*. A feeding trial was conducted for 120 days in 200-L circular fibre tanks with proper aeration, to compare the influence of prawn shell waste, in the formulated diet and commercial feed for *A. testudineus*. *Anabas* fishes were collected from a local farm and are distributed into two fibre enforced tanks, 5 fishes were stocked in each tank for comparing fish growth rate and feed utilization. This study revealed that the prawn shell waste were tested and confirmed satisfactory results, having 33.4% protein.

KEYWORDS: Prawn Shell Waste, Formulated Feed, Growth Performance.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:

MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UGC,
Minority Institution Certified by National Minority Education Commission)

Re-accredited by NAAC with B++ grade

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.

Ph : 0480-2850596

e-mail: principal.mesasmabi@gmail.com

website: www.mesasmabicollege.edu.in

MRP : ₹300/-

ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ ABSTRACTS

Editors:

Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
12	Isolation and Identification of <i>Vibrio</i> Species from Selected Beaches of Calicut District <i>Jumalra E. P.</i>	12
13	Breeding Standardization, Conservation & Biological Disease Control Of <i>Eetroplus suratensis</i> <i>Muhammed Bin Farooq</i>	13
14	Fish Consumption Pattern in Thrissur District <i>Neely T. G., Sandra S Nair, Anusree M. P, Gopika K S., Ruksana, Krishnana and T.D. & Dhanya Pulikkottil Rajan</i>	14
15	Habitat Variation and Diversity of Zooplankton in Ponnani Waterbodies with Special Reference to Water Quality <i>Raseena Thasni C. M.* & Rishhi Bala</i>	15
16	Nutritional Enhancement of Edible Oils Using Crustacean Shell Waste <i>Sayana K. A.* & Sumayya K. S.</i>	16
17	Status of Needle Fish Landing and Length Size Range of <i>Tylosurus acus melanotous</i> From Androth Island Lakshadweep <i>Shahul Hameed P. V. P.* & Ranjeet K.</i>	17
18	Study on Gut Content of Lunar Tailed Big Eye (<i>Priacanthus hamrur</i>) <i>Shameem Ayyappankandathil*, Amrutha Sivadas & Kesavan K.</i>	18
19	Chemical & Physical Food Safety Hazards in Aquaculture Farms: A Study in Kodungallur Area in Thrissur District <i>Sreelakshmi T. P.</i>	19
20	Influence of Chilled Storage on the Biochemical, Sensory and Microbial Quality of Frigate Tuna (<i>Auxis thazard</i>) Meat. <i>Sugaina Sulaiman M. S.</i>	20
21	Assessment of Mosquito Vector Diversity Across Habitats in the Thiruragadi Municipal Area <i>Sumana P.*, & Shameema Kodasseri</i>	21
22	Diversity of Coral Reef Fishes of Amini Island of Lakshadweep Archipelago <i>Thayyba P.* & Bijoy C</i>	22
23	Growth Performance Study of <i>Anabas Testudineus</i> by Utilization of Prawn Shell Waste as a Potential Fish Feed Ingredient <i>Ujjwala Navas</i>	23
24	Marketing Margin and Price Spread of Ornamental Fishes in Selected Districts in Kerala <i>Vaishna P. U.</i>	24
25	Freshwater Fish Diversity in Bharathapuzha River, Kerala <i>Veena V, Saskala G. & Selvaraju Raja</i>	25

Marketing Margin and Price Spread of Ornamental Fishes in Selected Districts in Kerala

Vaishna P. U.

Dept. of Aquaculture, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

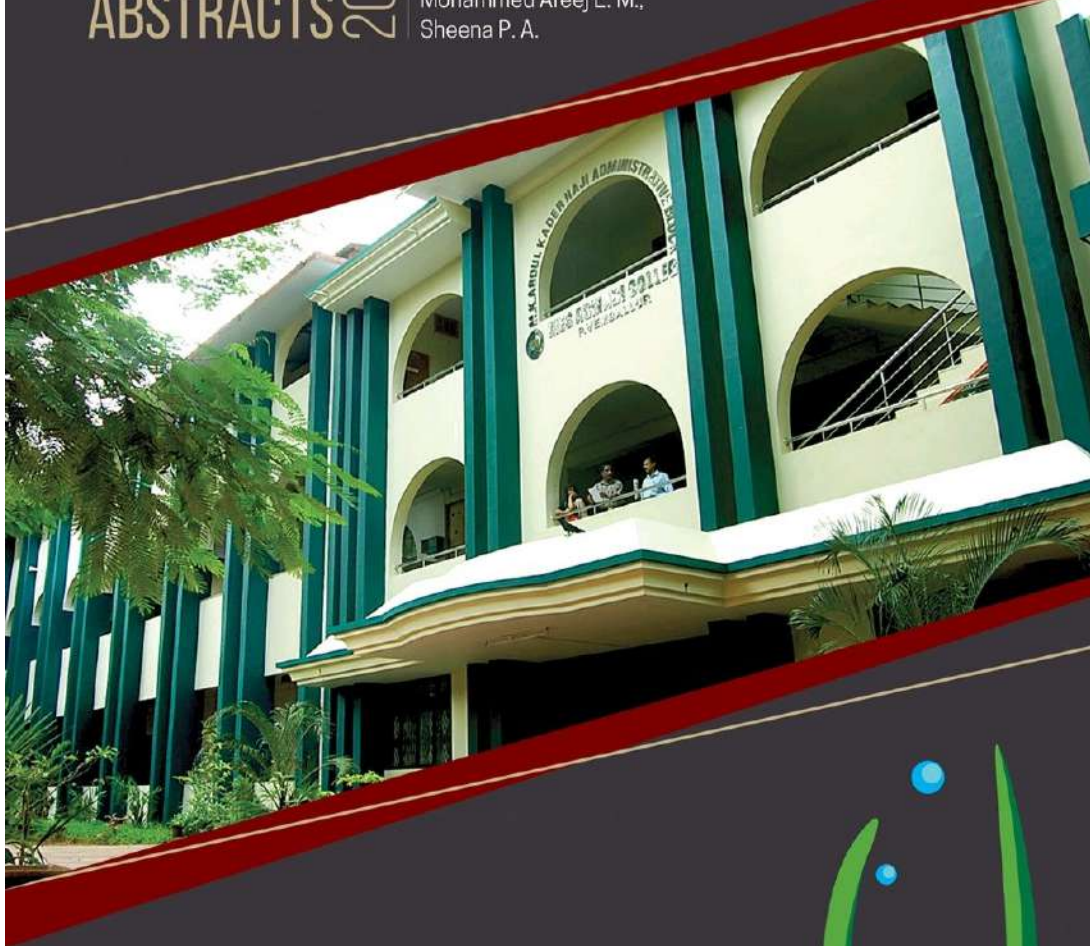
Mail id: vaishnaarun13@gmail.com

The present study was under taken to know aquarium fish marketing system in the districts of Thrissur and Emakulam. A total number of 9 ornamental fish shops were randomly selected. A lot of studies related to ornamental fish marketing have been conducted during past decades. By analyzing marketing cost and price spread, the current status of ornamental fish business in the market, and also the profit percentage earned by the breeder, rearer, wholesaler, and retailer at different marketing channel can be understood. . The ornamental fish shops were found to be the primary source of livelihood for these people and maximum units were retail outlets. In ornamental fish trade, price is determined as "rate per piece" and this caused a high difference among producer's price, wholesaler's margin and retailer's margin of same species. Inappropriate quarantine of the stock, lack of good colouration, lack of good strain and unsteady demand also affected the wholesalers. Fishes were imported mostly from Kolkata, Chennai and Mumbai whereas sometimes they bought fishes from foreign countries as well. Gold fish (*Carrassius auratus*) was the most preferred groups in market. Improper health management practice, seasonal fluctuation in price, high wholesale rate and lack of finance was considered as the most significant problem inhibiting the growth of retail industry. The analysis revealed that the intermediaries were grabbing a significant share of the consumer's rupee.

KEYWORDS: Price Spread, Marketing Costs, Wholesale Price, Retail Price.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:

MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)

Re-accredited by NAAC with B++ grade

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.

Ph : 0480-2850596

e-mail: principal.mesasmabi@gmail.com

website: www.mesasmabicollege.edu.in

MRP : ₹300/-

ISBN: 978-93-5813-509-1





MES AIYAR COLLEGE
KUMBALANGI

NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
26	Ecofriendly Synthesis of Silver Nanoparticles from Aqueous Leaf Extract of <i>Piper nigrum</i> L. and Evaluation of Its Antimicrobial Activity Against Infectious Pathogens <i>Aparna U. & Rekha K.</i>	26
27	Priming Enhances tolerance to Waterlogging Stress in Turmeric Varieties (<i>Curcuma longa</i> L.) <i>Athira T. R.* & Jisha K. C.</i>	27
28	Identification of the Best Extraction Solvent for <i>Humboldtia sanjappae</i> , Elucidation of Its Anti-inflammatory Potential, and LC-MS Screening of Major Phytochemicals <i>Jameena Sidhique*, Arunakshamn Narayanankatty & Satheesh George</i>	28
29	Evaluation of Antigenotoxic Potential of Turmeric Extract Against Sodium Potassium Tartrate, a Food Additive <i>Merrin George & Rekha K.</i>	29
30	Phytochemical and GC-MS/MS Analysis of <i>Strophanthus wightianus</i> Wall. ex Wight <i>Sabin P. Q.* & Grijja T. P.</i>	30
31	Crop Improvement of Ginger (<i>Zingiber officinale</i> Rosc.) Through Biopriming <i>Sumitha Thomas* & Jisha K. C.</i>	31
32	Production and Purification of Lasperginase Enzyme Using <i>Bacillus</i> Spp and It's Anti Cancer, DNA Damage Analysis <i>Anusree K. M., Hasna Shahana E. N., Fathima Safa V. P., Ahsana K., Mohamed Shefin K. P., Rincy C. K. & Raghunandan</i>	32
33	In vitro and In silico Studies of Certain Curcumin Analogues' Antibacterial Effect <i>Lovely Jacob A. & Tom Cherian</i>	33
34	Synthesis of Novel Anthracene-maleimide Adduct Derived Difunctional and Trifunctional Mechanophore Incorporated Poly (Methyl Methacrylate) for Stress Sensing and Self Healing Applications <i>Nishad K. M.*, Rani Joseph, Prathapan S.</i>	34
35	Microstructure and Mechanical properties of Friction Stir Welded Az31 Magnesium Alloy <i>Rahul R., Radhakrishna Panicker M. R., Job P. A.</i>	35
36	Interaction of Two Heterocyclic Derivatives on Carbon Steel in 1M HCl Medium: Gravimetric, Electrochemical and Quantum Chemical Approach <i>Reeja Johnson</i>	36
37	Development of Micro Encapsulated Chitosan Nanocomposites and Its Biomedical Applications <i>Risha Fathima, Sana T. P., Shamila Thasni M., Rahana Sherin V. P., Rosna Rasheed, Seena P. & Raganathan R.</i>	37
38	Fermatean Fuzzy Soft Rough Sets and Its Application in Decision Making <i>Nasreen A., Latha S Nair</i>	38

Priming Enhances tolerance to Waterlogging Stress in Turmeric Varieties (*Curcuma longa* L.)

Athira T. R.* & Jisha K. C.

Research & PG Dept. of Botany, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: trathira48476@gmail.com

Waterlogging (S) is one of the major abiotic stresses limiting turmeric growth, yield and stability in areas with excessive rainfall. In this study, three different rhizome priming techniques—hydropriming (H), halopriming (N), and KNO₃ priming (K)—were used as an attempt to increase the water logging tolerance in two turmeric varieties, Prathibha (T) and Pragati (G). In contrast to the control, primed-waterlogged plants maintained their growth and yield on the fourth day following two days of waterlogging. The results showed that waterlogging treatment significantly raised levels of carbohydrates, protein, proline and H₂O₂, and decreased levels of MDA, demonstrating turmeric's high resistance to waterlogging stress. It also showed that waterlogging treatment did not reduce the amount of photosynthetic pigment. Hydro-primed Prathibha under stress (THS) and KNO₃-primed Pragati under stress (GKS) had the highest photosynthetic pigment and protein content. Proline content was found to be higher in both primed waterlogged turmeric varieties, while Pragati had a higher concentration. Carbohydrate content was lower in the leaves of primed waterlogged plants but was found higher in roots. The yield was higher in primed turmeric varieties and waterlogging did not significantly reduced it. The highest yield was found in halo-primed Pragati (GN).When all applications were compared with the control, the primed Prathibha varieties were less affected by waterlogging and more tolerant than the others. The present study suggested that rhizome priming is an alternative and more effective method to increase tolerance in turmeric varieties when exposed to waterlogged conditions.

KEYWORDS: Priming, Tolerance, Turmeric, Waterlogging.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in

MRP : ₹300/-
ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
26	Ecofriendly Synthesis of Silver Nanoparticles from Aqueous Leaf Extract of <i>Piper nigrum</i> L. and Evaluation of Its Antimicrobial Activity Against Infectious Pathogens <i>Aparna U. & Rekha K.</i>	26
27	Priming Enhances tolerance to Waterlogging Stress in Turmeric Varieties (<i>Curcuma longa</i> L.) <i>Athira T. R.* & Jisha K. C.</i>	27
28	Identification of the Best Extraction Solvent for <i>Humboldtia sanjappae</i> , Elucidation of Its Anti-inflammatory Potential, and LC-MS Screening of Major Phytochemicals <i>Jameema Sidhique*, Arunakshaman Narayananankutty & Satheesh George</i>	28
29	Evaluation of Antigenotoxic Potential of Turmeric Extract Against Sodium Pottassium Tartrate, a Food Additive <i>Merrin George & Rekha K.</i>	29
30	Phytochemical and GC-MS/MS Analysis of <i>Strophanthus wightianus</i> Wall. ex Wight <i>Sabin P. Q.* & Grijja T. P.</i>	30
31	Crop Improvement of Ginger (<i>Zingiber officinale</i> Rosc.) Through Biopriming <i>Sumitha Thomas* & Jisha K. C.</i>	31
32	Production and Purification of Lasperginase Enzyme Using <i>Bacillus</i> Spp and It's Anti Cancer, DNA Damage Analysis <i>Anusree K. M., Hasna Shahana E. N., Fathima Safa V. P., Ahsana K., Mohamed Shefin K. P., Rincy C. K. & Raghunandan</i>	32
33	In vitro and Insilico Studies of Certain Curcumin Analogues' Antibacterial Effect <i>Lovely Jacob A. & Tom Cherian</i>	33
34	Synthesis of Novel Anthracene-maleimide Adduct Derived Difunctional and Trifunctional Mechanophore Incorporated Poly (Methyl Methacrylate) for Stress Sensing and Self Healing Applications <i>Nishad K. M.*, Rani Joseph, Prathapan S.</i>	34
35	Microstructure and Mechanical properties of Friction Stir Welded Az31 Magnesium Alloy <i>Rahul R., Radhakrishna Panicker M. R., Job P. A.</i>	35
36	Interaction of Two Heterocyclic Derivatives on Carbon Steel in 1M HCl Medium: Gravimetric, Electrochemical and Quantum Chemical Approach <i>Reeja Johnson</i>	36
37	Development of Micro Encapsulated Chitosan Nanocomposites and Its Biomedical Applications <i>Risha Fathima, Sana T. P., Shamila Thasni M., Rahana Shertin V. P., Rosna Rasheed, Seena P. & Raganathan R.</i>	37
38	Fermatean Fuzzy Soft Rough Sets and Its Application in Decision Making <i>Nasreen A., Latha S Nair</i>	38

Crop Improvement of Ginger (*Zingiber officinale* Rosc.) Through Biopriming

Sumitha Thomas* & Jisha K. C.

Research & PG Dept. of Botany, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

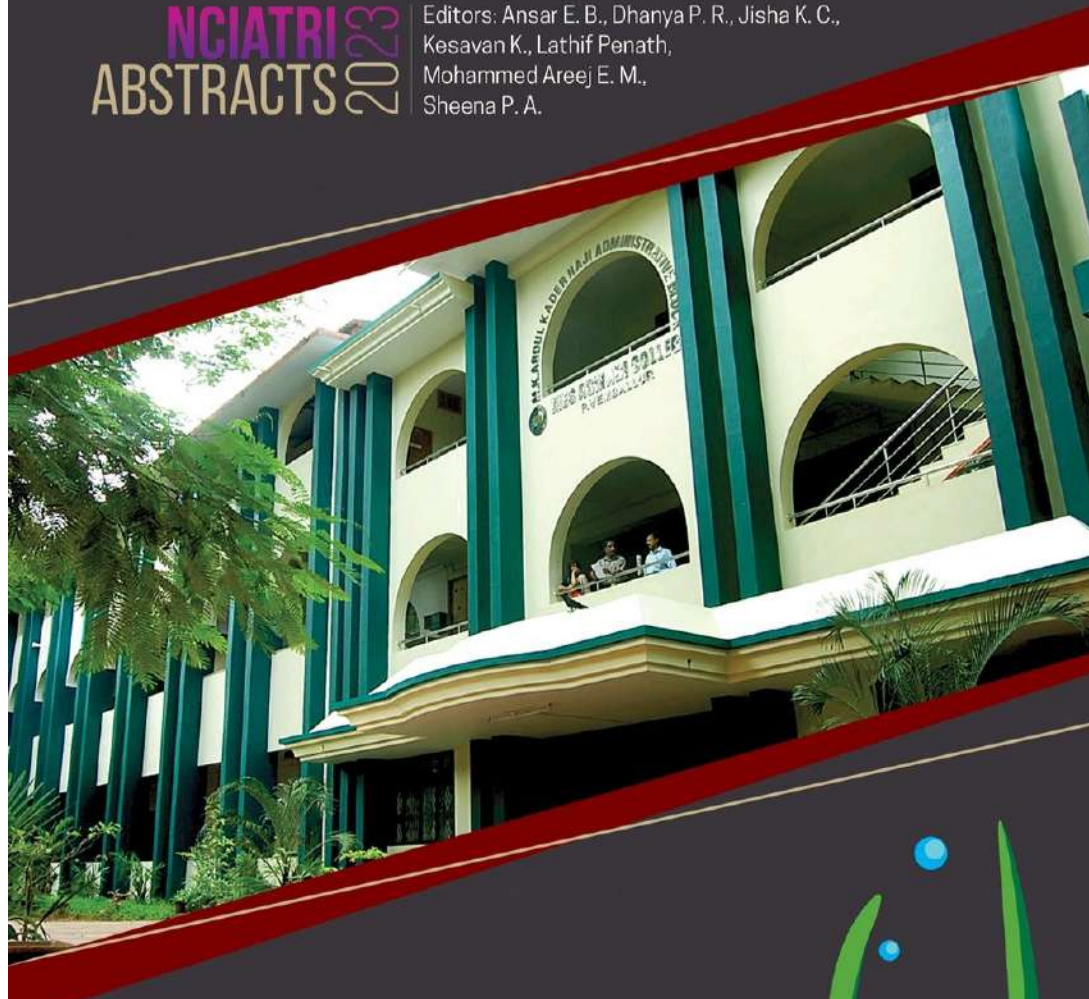
*Corresponding author: sumithat07@gmail.com

Ginger (*Zingiber officinale* Rosc.) is a crop which mainly cultivated for its underground spicy rhizomes. Currently various methods are adopting for crop improvement, among these techniques, priming is the best method for a agriculturist for the better establishment of crops. Various chemicals, UV rays, magnetic field, nanoparticles and biological organisms are used as priming agents. In this work, ginger (var. Karthika) is primed with various concentrations (10^5 - 10^9 cfu) of *Pseudomonas fluorescence*, a well-known bacterium that is widely used for crop improvement program. Surface sterilized ginger rhizome cuttings were incubated with solutions containing bacteria for different time duration (6,12,18 and 24 hrs). The entire process was maintained in the germ-free conditions with sterile soil and pots in the culture room. The primed ginger showed sprouting within six days, while the sprouting took more than 20 days for unprimed ones. All bacterial concentrations primed at 6 h and 12 h were rejected due to poor growth patterns. The selected concentration was 10^6 CFU for 24 hours, which showed the highest growth rate in terms of morphological attributes (shoot length 61 cm and leaf length 28 cm). Moreover, the plants also showed highest chlorophyll content in the leaves when compared to control and other priming treatments. In conclusion the bio-primed (10^6 CFU for 24 hours) plants showed an enhancement in germination, growth and photosynthetic pigment, hence this priming concentration and duration was suitable for the biopriming and crop improvement of ginger plants.

KEYWORDS: Biopriming, Ginger, Growth, Improvement, *Pseudomonas*.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in

MRP : ₹300/-
ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
26	Ecofriendly Synthesis of Silver Nanoparticles from Aqueous Leaf Extract of <i>Piper nigrum</i> L. and Evaluation of Its Antimicrobial Activity Against Infectious Pathogens <i>Aparna U. & Rekha K.</i>	26
27	Priming Enhances tolerance to Waterlogging Stress in Turmeric Varieties (<i>Curcuma longa</i> L.) <i>Athira T. R.* & Jisha K. C.</i>	27
28	Identification of the Best Extraction Solvent for <i>Humboldtia sanjappae</i> , Elucidation of Its Anti-inflammatory Potential, and LC-MS Screening of Major Phytochemicals <i>Jameena Sidhique*, Arunakshamn Narayanankatty & Satheesh George</i>	28
29	Evaluation of Antigenotoxic Potential of Turmeric Extract Against Sodium Potassium Tartrate, a Food Additive <i>Merrin George & Rekha K.</i>	29
30	Phytochemical and GC-MS/MS Analysis of <i>Strophanthus wightianus</i> Wall. ex Wight <i>Sabin P. Q.* & Grijja T. P.</i>	30
31	Crop Improvement of Ginger (<i>Zingiber officinale</i> Rosc.) Through Biopriming <i>Sumitha Thomas* & Jisha K. C.</i>	31
32	Production and Purification of Lasperginase Enzyme Using <i>Bacillus</i> Spp and It's Anti Cancer, DNA Damage Analysis <i>Anusree K. M., Hasna Shahana E. N., Fathima Safa V. P., Ahsana K., Mohamed Shefin K. P., Rincy C. K. & Raghunandan</i>	32
33	In vitro and In silico Studies of Certain Curcumin Analogues' Antibacterial Effect <i>Lovely Jacob A. & Tom Cherian</i>	33
34	Synthesis of Novel Anthracene-maleimide Adduct Derived Difunctional and Trifunctional Mechanophore Incorporated Poly (Methyl Methacrylate) for Stress Sensing and Self Healing Applications <i>Nishad K. M.*, Rani Joseph, Prathapan S.</i>	34
35	Microstructure and Mechanical properties of Friction Stir Welded Az31 Magnesium Alloy <i>Rahul R., Radhakrishna Panicker M. R., Job P. A.</i>	35
36	Interaction of Two Heterocyclic Derivatives on Carbon Steel in 1M HCl Medium: Gravimetric, Electrochemical and Quantum Chemical Approach <i>Reeja Johnson</i>	36
37	Development of Micro Encapsulated Chitosan Nanocomposites and Its Biomedical Applications <i>Risha Fathima, Sana T. P., Shamila Thasni M., Rahana Sherin V. P., Rosna Rasheed, Seena P. & Raganathan R.</i>	37
38	Fermatean Fuzzy Soft Rough Sets and Its Application in Decision Making <i>Nasreen A., Latha S Nair</i>	38

Phytochemical and GC-MS/MS Analysis of *Strophanthus wightianus* Wall. ex Wight

Sabin P. Q.* & Girija T. P.

Research & PG Dept. of Botany, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: sabinasmabi@gmail.com

Background: *Strophanthus wightianus* Wall. ex Wight belongs to the family Apocynaceae and is well known for its medicinal properties. The present study was carried out to evaluate the Preliminary phytochemicals and possible bioactive components present in the methanolic extract of *Strophanthus wightianus* Wall. ex Wight stem and leaves.

Results: The phytochemical analysis of methanolic extract of *Strophanthus wightianus* Wall. ex Wight leaves revealed the presence of flavonoids, phenols, saponins, alkaloids, glycosides and terpenoids. The stem extract showed the presence of alkaloids, steroids, flavonoids, phenols, coumarins, glycosides, tannins and Terpenoids. The GC-MS/MS analysis carried out using methanolic leaf and stem extracts. It shows the presence of twenty-three bioactive compounds in leaf and twenty-nine compounds in stem. which include the main bioactive compounds like Paromomycin, Niacin, Methyleugenol, Iridomyrmecin, Apiol, phytol, Methyl nicotinate, Nicofuranose, 2,4'-Bipyridine, Desaspidinol and Methyl stearate.

Conclusion: The phytochemical and GC-MS/MS analysis of methanolic extract of *Strophanthus wightianus* Wall. ex Wight leaves and stem revealed the presence of bioactive compounds with important medicinal properties. Hence, the presence of these phytochemicals could be responsible for the therapeutic effects of the plant.

KEYWORDS: *Strophanthus wightianus* Wall. ex Wight, Phytochemicals, GC-MS/MS, Bioactive Compounds.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in

MRP : ₹300/-
ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Structural Properties and Antibacterial activity of Copper Oxide Nanoparticles

Chithra B.¹ & Sheeba N. H.^{2*}

¹MES Ponnani College Ponnani, Malapuram, Kerala.

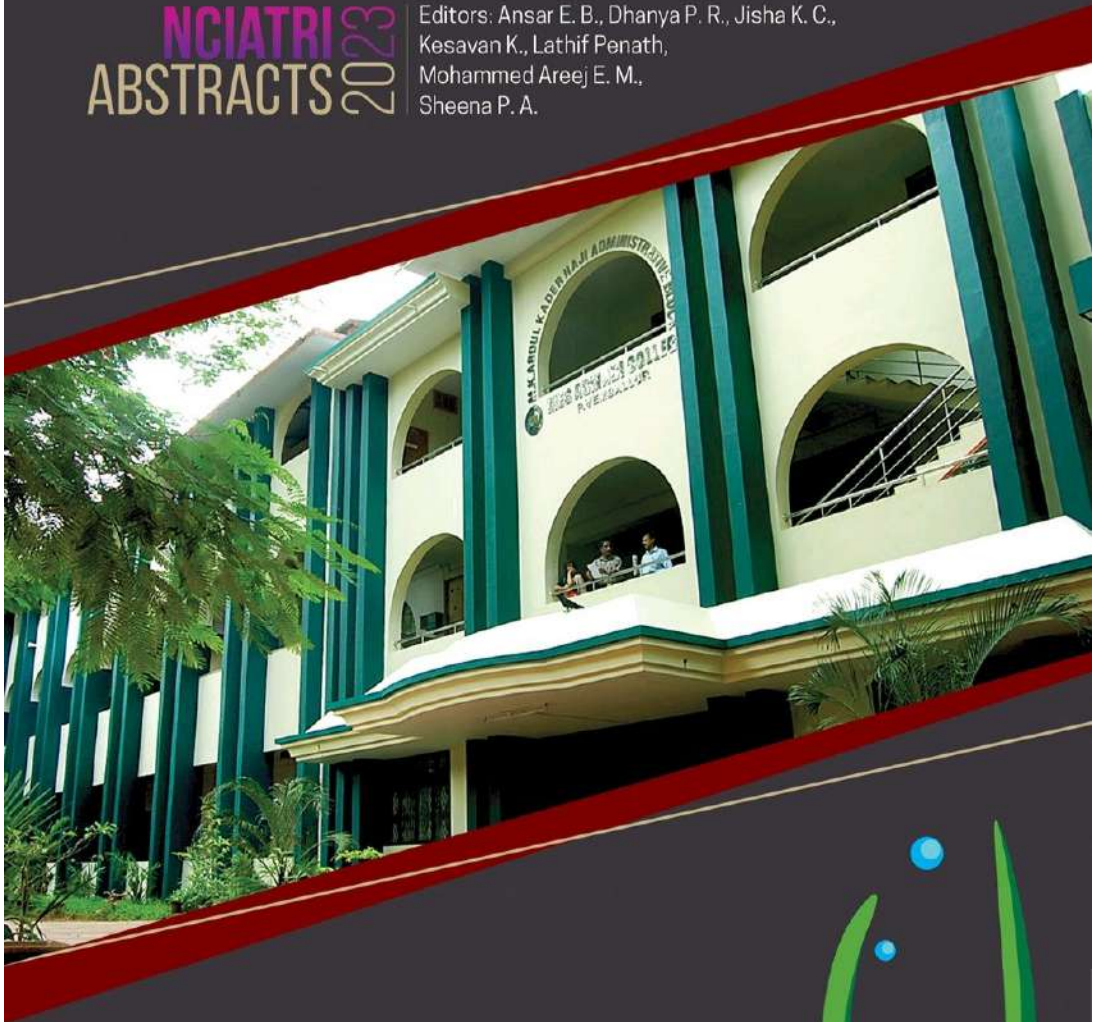
²MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: sheebames.naser@gmail.com

Copper oxide (CuO) NPs have been synthesised by simple Co-precipitation method at different annealing temperature for Optimization. Samples are characterized using X-ray diffraction (XRD), Energy Dispersive X-ray Analysis (EDAX), Fourier transform infrared spectroscopy (FTIR), Scanning Electron microscopy (SEM) and UV-visible absorption spectroscopy (UV). Anti-bacterial activity of the optimized sample has been assessed using disc diffusion method. It is proven by structural analyses that CuO exists as a monoclinic structure in all samples. Annealing effects on purity of the sample and the particle size of the prepared CuO nanoparticles studied successfully. Using X-ray broadening, crystallite sizes and lattice strain on the peak broadening of CuO- NPs have been investigated using Williamson-Hall (W-H) analysis and the precise lattice parameter values calculated using the Nelson-Riley function. Monoclinic CuO nanostructures have been confirmed by FTIR measurements of all the samples, also elastic properties are studied. Chemical compositions are identified by EDAX spectra. Optical studies indicate that energy bandgap of as-prepared samples varies as 2.67 – 3.17 eV and absorbance peak as 240 nm- 257 nm. The antibacterial activity of the CuO nanomaterial is determined by using disc diffusion method against Gram positive and Gram-negative bacteria. Gram-negative bacterial strains show more sensitivity than gram-positive because of their membrane structure. The results show a strong decline of bacterial strains after a short contact with nanoparticles.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in

MRP : ₹300/-
ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

7

Sl. No.	Title & Authors	Page No.
39	A Novel Approach to the Synthesis of White Light Emitting Dy ³⁺ Doped Lanthanum Oxalate Single Crystals Via Hydro Silica Gel Method <i>Aryamol Stephen</i>	39
40	The Impact of Deposition Time on the Structural and Optical Properties of Flower-like PbS Thin Films <i>Ashitha T. M. & Sheeba N. H.*</i>	40
41	Structural Properties and Antibacterial activity of Copper Oxide Nanoparticles <i>Chithra B. & Sheeba N. H.*</i>	41
42	Anatase to Rutile Phase Transformation of TiO ₂ Nanoparticles <i>Hasna N. J., Anna Rose & Sheena P. A.*</i>	42
43	Inhibiting Action of Cu Doping on the Phase Transformation of TiO ₂ Nanoparticles <i>Shanu A. S., Greatel Paremél & Johns Naduvath*</i>	43
44	Investigation on Trivalent Neodymium Doped (Nd ³⁺) Fluoroborosilicate Glasses for Laser Application. <i>Sreedevi</i>	44
45	Parental Bonding and Perception of Success Among Late Adolescent Athletes <i>Adnan Hamza Kizhisseri, Minna Farhana, Pranav Mohan, Rasha K. M.* & Minsila Hilal.</i>	45
46	Suicidal Ideation and Academic Stress Among Grade X Students Following ICSE, State and CBSE Syllabi in Kerala: A Comparative Study <i>Alna Elisubha V. S., Vismaya B., Mohammed Saif Zidan & Soumya Starlet C. T.</i>	46
47	Academic Adaptability and Resilience Among College Students based on Learning Style <i>Ayisha A. P. & Latheef Paneth*</i>	47
48	Effect of Aggression on School Refusal Behavior Among Adolescence <i>Bhagya B. L. & Farhana Nazar*</i>	48
49	Pain Appraisal, Catastrophizing, Fear of Progression and Death Anxiety Among Cancer Patients <i>Elsa Elisabeth Wilson & Soumya Starlet C. T.</i>	49
50	Emotion Regulation, Coping Abilities and Cognitive Flexibility Among Service Oriented Youth Organisation Members and Non Members <i>Farhana Nasar, Anaswara C. G., Afa K. S., Muhammed sharik, Sneha Rajeevan N. K.*</i>	50
51	Perceived Social Support and Bullying Among Adolescents <i>Fathimath Hiba* & Farhana Nasar K.</i>	51
52	Relationship Between Expectationism and Self Care Behaviour Among Young Adults <i>Hareesh Mohan E. R. & Lathif Penath*</i>	52

The Impact of Deposition Time on the Structural and Optical Properties of Flower-like PbS Thin Films

Ashitha T. M. & Sheeba N. H.*

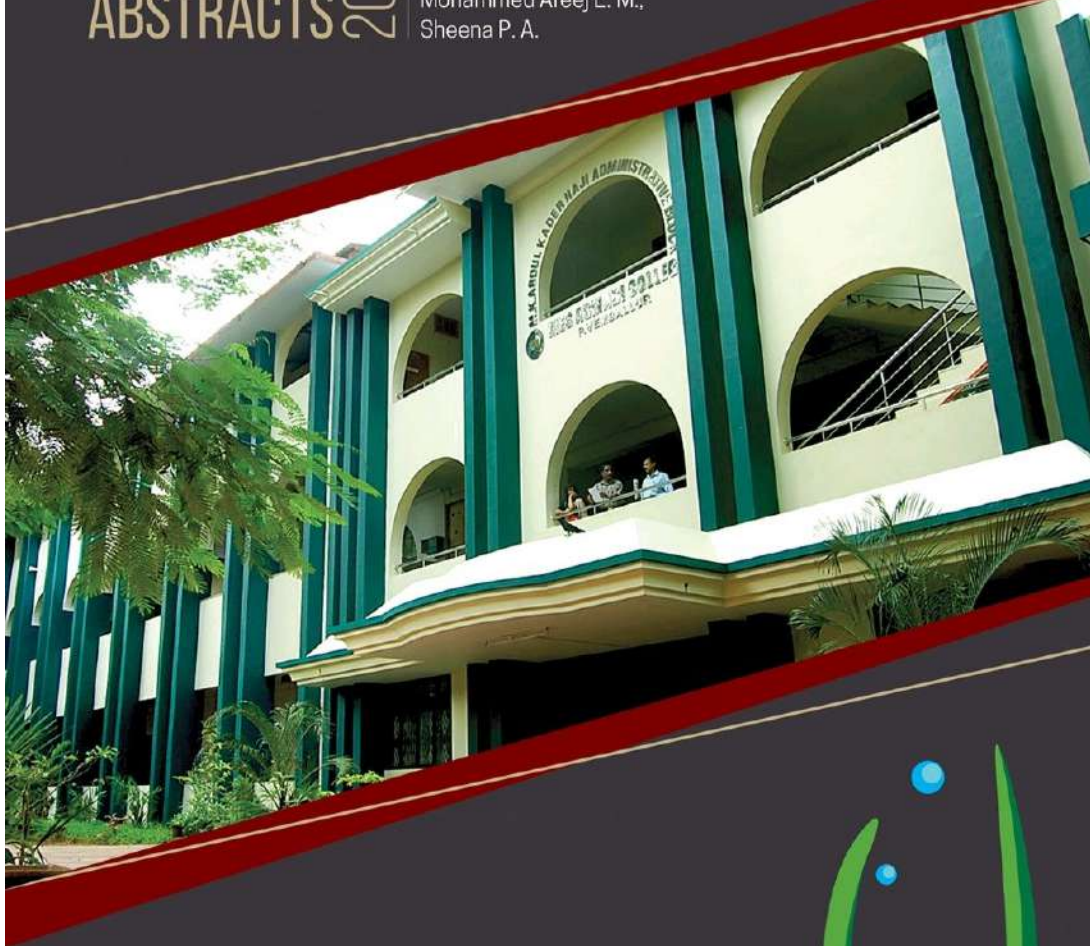
Dept. of Physics, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: sheebames.naser@gmail.com

Polycrystalline PbS thin films are deposited onto Flint glass substrates by the method of chemical bath deposition (CBD) at different duration of deposition time. The structure and surface morphology of the films are characterized by X-ray diffraction (XRD) and field effect scanning electron microscopy (FE-SEM). XRD pattern exhibits polycrystalline structure with preferential orientation along (200) direction, parameters such as crystallite size, lattice constant, lattice-strain and dislocation density are calculated. The FE-SEM images show appearance of flower like structure on formation of PbS films which is indicative of suitability in gas sensing applications. Studies on optical properties carried out by UV-Vis spectroscopy measurements show bandgap in the range 1.65eV-1.41 eV. The photoluminescence spectra of the films exhibit two peaks centered at around 613 nm and 738 nm after excitation at 450 nm.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:

MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)

Re-accredited by NAAC with B++ grade

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.

Ph : 0480-2850596

e-mail: principal.mesasmabi@gmail.com

website: www.mesasmabicollege.edu.in

MRP : ₹300/-

ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

7

Sl. No.	Title & Authors	Page No.
39	A Novel Approach to the Synthesis of White Light Emitting Dy ³⁺ Doped Lanthanum Oxalate Single Crystals Via Hydro Silica Gel Method <i>Aryamol Stephen</i>	39
40	The Impact of Deposition Time on the Structural and Optical Properties of Flower-like PbS Thin Films <i>Ashitha T. M. & Sheeba N. H.*</i>	40
41	Structural Properties and Antibacterial activity of Copper Oxide Nanoparticles <i>Chithra B. & Sheeba N. H.*</i>	41
42	Anatase to Rutile Phase Transformation of TiO ₂ Nanoparticles <i>Hasna N. J., Anna Rose & Sheena P. A.*</i>	42
43	Inhibiting Action of Cu Doping on the Phase Transformation of TiO ₂ Nanoparticles <i>Shanu A. S., Greatel Paremél & Johns Naduvath*</i>	43
44	Investigation on Trivalent Neodymium Doped (Nd ³⁺) Fluoroborosilicate Glasses for Laser Application. <i>Sreedevi</i>	44
45	Parental Bonding and Perception of Success Among Late Adolescent Athletes <i>Adnan Hamza Kizhisseri, Minna Farhana, Pranav Mohan, Rasha K. M.* & Minsila Hilal.</i>	45
46	Suicidal Ideation and Academic Stress Among Grade X Students Following ICSE, State and CBSE Syllabi in Kerala: A Comparative Study <i>Alna Elisubha V. S., Vismaya B., Mohammed Saif Zidan & Soumya Starlet C. T.</i>	46
47	Academic Adaptability and Resilience Among College Students based on Learning Style <i>Ayisha A. P. & Latheef Paneth*</i>	47
48	Effect of Aggression on School Refusal Behavior Among Adolescence <i>Bhagya B. L. & Farhana Nazar*</i>	48
49	Pain Appraisal, Catastrophizing, Fear of Progression and Death Anxiety Among Cancer Patients <i>Elsa Elisabeth Wilson & Soumya Starlet C. T.</i>	49
50	Emotion Regulation, Coping Abilities and Cognitive Flexibility Among Service Oriented Youth Organisation Members and Non Members <i>Farhana Nasar, Anaswara C. G., Afa K. S., Muhammed sharik, Sneha Rajeevan N. K.*</i>	50
51	Perceived Social Support and Bullying Among Adolescents <i>Fathimath Hiba* & Farhana Nasar K.</i>	51
52	Relationship Between Expectationism and Self Care Behaviour Among Young Adults <i>Hareesh Mohan E. R. & Lathif Penath*</i>	52

Anatase to Rutile Phase Transformation of TiO₂ Nanoparticles

Hasna N. J.¹, Anna Rose² & Sheena P. A.^{1*}

¹Dept. of Physics, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

²Dept. of Physics, St Aloysius College, Elthuruth - Thrissur, Kerala.

*Corresponding author: sheenakasim@gmail.com

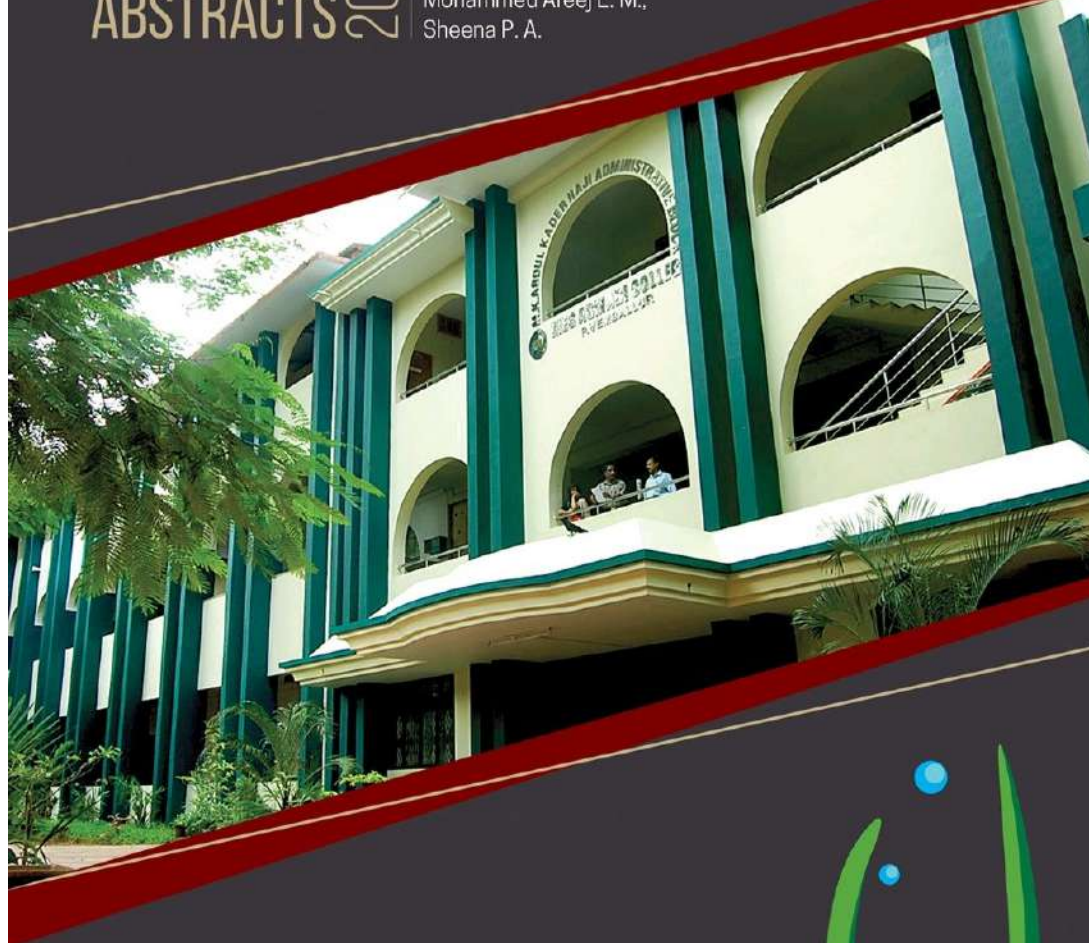
The anatase to rutile phase transformation of Titanium dioxide nanoparticles upon calcination is reported here. TiO₂ nanoparticles are synthesized by sol gel method using titanium (IV)-n - butoxide (Ti(OC₄H₉)₄ or Ti(OBu)₄), isopropyl alcohol ((CH₃)₂CHOH) and conc. HNO₃. The thermal stability and the decomposition of synthesized materials are studied using thermogravimetric (TG) analysis. The TGA studies show no weight loss for the sample after 400°C. Hence the as prepared samples are calcined at 400 and 800°C for three hours. The structural characterization of the nanoparticles is done using X-ray diffraction (XRD) technique. The XRD patterns indicate that the structure of TiO₂ is anatase at a calcination temperature of 400°C and rutile at 800°C. The X-ray diffraction studies show an increase in the intensity of diffraction peaks, decrease in FWHM and increase in crystallite size. The crystallite size values obtained are 11.3 and 58 nm for the anatase and rutile samples respectively. The optical absorption of these nanoparticles are investigated using UV-Visible and photoluminescence (PL) spectroscopic methods. The optical absorption spectra of TiO₂ sample exhibited strong absorption in the UV region. The band gap energy values obtained are 3.43 and 3.00 eV for the anatase and rutile samples respectively, in close agreement with the values obtained in other studies. The samples exhibit a strong and wide PL signal from 400 to 500 nm and a shoulder peak at 377 nm with an excited wavelength of 300 nm. Both the samples exhibit similar type of PL signal with no significant change in the curve shape. The emission intensity of anatase is higher than that of rutile sample.

This study reports the successful transformation from anatase to rutile phase of TiO₂ nanoparticles synthesized by sol gel method.

KEYWORDS: TiO₂ Nanoparticles, Anatase & Rutile Phase, Sol-gel Technique, Phase Transformation.

NCIATRI ABSTRACTS 2023

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in



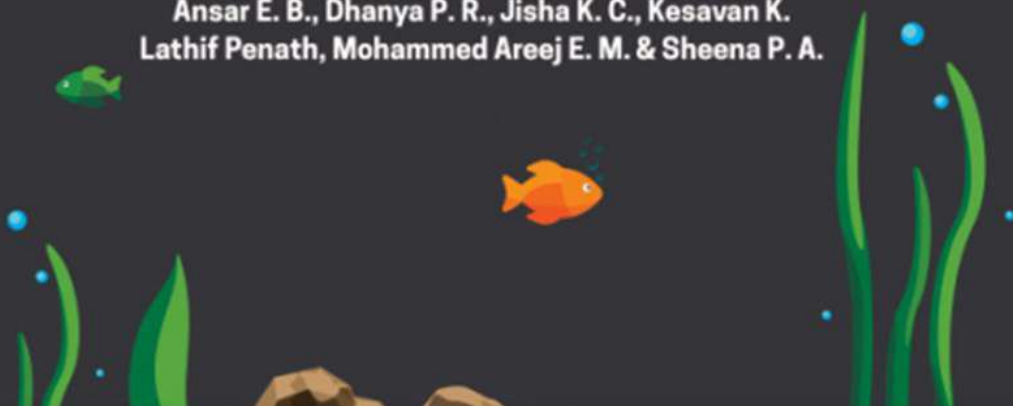
MRP : ₹300/-
ISBN: 978-93-5813-509-1



NCIATRI²³ ABSTRACTS²⁰

Editors

Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.



NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

7

Sl. No.	Title & Authors	Page No.
39	A Novel Approach to the Synthesis of White Light Emitting Dy ³⁺ Doped Lanthanum Oxalate Single Crystals Via Hydro Silica Gel Method <i>Aryamol Stephen</i>	39
40	The Impact of Deposition Time on the Structural and Optical Properties of Flower-like PbS Thin Films <i>Ashitha T. M. & Sheeba N. H.*</i>	40
41	Structural Properties and Antibacterial activity of Copper Oxide Nanoparticles <i>Chithra B. & Sheeba N. H.*</i>	41
42	Anatase to Rutile Phase Transformation of TiO ₂ Nanoparticles <i>Hasna N. J., Anna Rose & Sheena P. A.*</i>	42
43	Inhibiting Action of Cu Doping on the Phase Transformation of TiO ₂ Nanoparticles <i>Shanu A. S., Greate! Paremel & Johns Naduvath*</i>	43
44	Investigation on Trivalent Neodymium Doped (Nd ³⁺) Fluoroborosilicate Glasses for Laser Application. <i>Sreedevi</i>	44
45	Parental Bonding and Perception of Success Among Late Adolescent Athletes <i>Adnan Hamza Kizhisseri, Minna Farhana, Pranav Mohan, Rasha K. M.* & Minsila Hilal.</i>	45
46	Suicidal Ideation and Academic Stress Among Grade X Students Following ICSE, State and CBSE Syllabi in Kerala: A Comparative Study <i>Alina Elisubha V. S., Vismaya B., Mohammed Saif Zidan & Soumya Starlet C. T.</i>	46
47	Academic Adaptability and Resilience Among College Students based on Learning Style <i>Ayisha A. P. & Lathief Paneth*</i>	47
48	Effect of Aggression on School Refusal Behavior Among Adolescence <i>Bhagya B. L. & Farhana Nazar*</i>	48
49	Pain Appraisal, Catastrophizing, Fear of Progression and Death Anxiety Among Cancer Patients <i>Elsa Elisabeth Wilson & Soumya Starlet C. T.</i>	49
50	Emotion Regulation, Coping Abilities and Cognitive Flexibility Among Service Oriented Youth Organisation Members and Non Members <i>Farhana Nasar, Anaswara C. G., Afla K. S., Muhammed sharik, Sneha Rajeevan N. K.*</i>	50
51	Perceived Social Support and Bullying Among Adolescents <i>Fachimath Hiba* & Farhana Nasar K.</i>	51
52	Relationship Between Expectationism and Self Care Behaviour Among Young Adults <i>Hareesh Mohan E. R. & Lathif Penath*</i>	52

Parental Bonding and Perception of Success Among Late Adolescent Athletes

Adnan Hamza Kizhisseri, Minna Farhana, Pranav Mohan, Rasha K. M.* & Minsila Hilal.

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

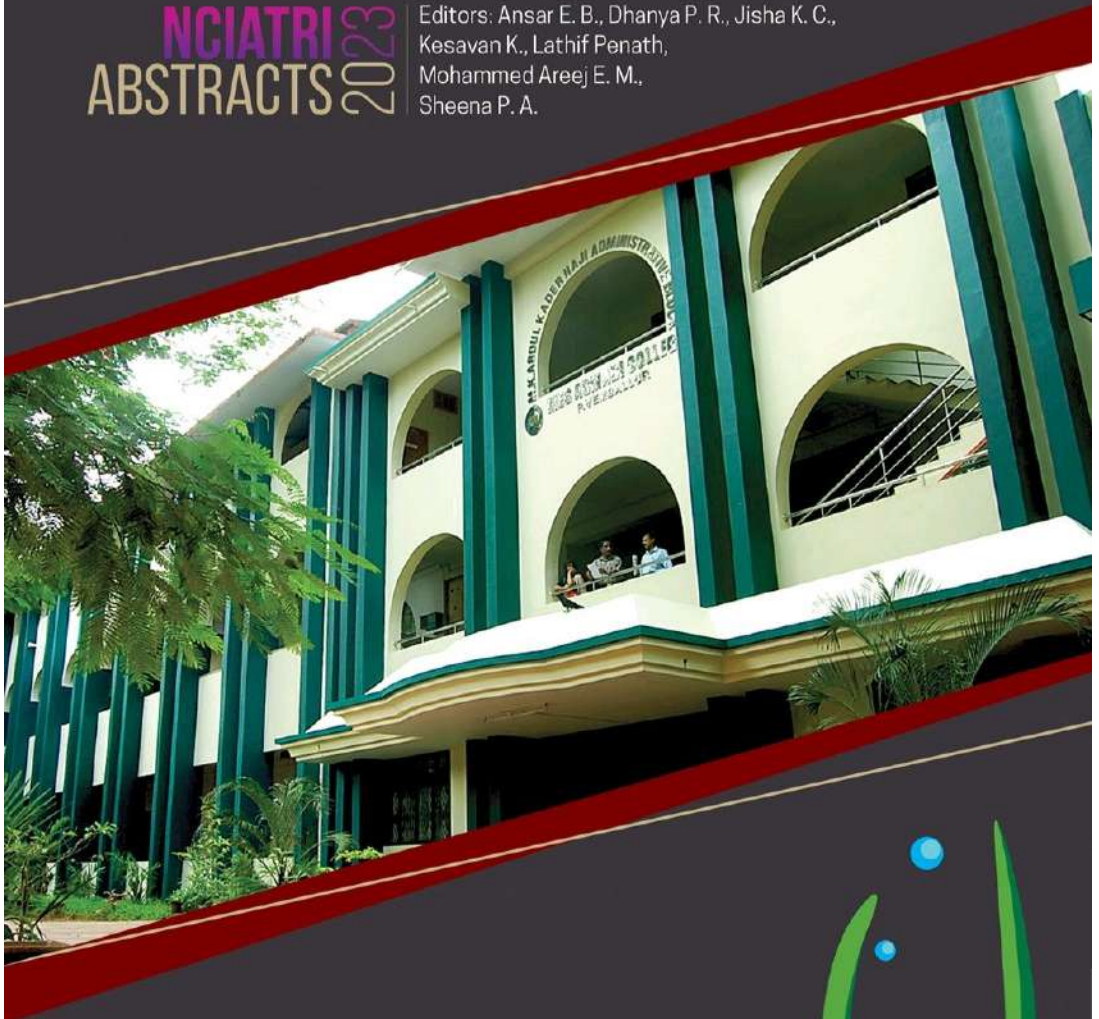
*Corresponding author: raminrasha8@gmail.com

The aim of the study is to examine the relationship between parental bonding and perceived success among late adolescents partaking in sports or other physical activities. The difference in parental bonds and perception of success is also measured between the two genders. 63 male and 63 female students playing competitive sports participated in this study. The data used in the study was collected using the Parental Bond Instrument (PBI, Gordon Parker, Hilary Tupling, & L.B Brown) and the Perception of Success Questionnaire (POSQ, Adult Version) through online survey. The collected data was analysed using Independent sample T test and correlation was found using Pearson Correlation. The results showed that there was no significant relationship between Parental Bonding and Perceived Success among late adolescent athletes. However, there was a significant difference between males and females in Parental Bonding with females showing a higher level of parental bonding with parents. Having a better bond with parents does not affect perceived success among young athletes. This may be because young adults spent much more time with peers and other same aged people.

KEYWORDS: Perception of Success, Parental Bonding, Adolescent Athlete.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:

MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)

Re-accredited by NAAC with B++ grade

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.

Ph : 0480-2850596

e-mail: principal.mesasmabi@gmail.com

website: www.mesasmabicollege.edu.in

MRP : ₹300/-

ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
53	Father's Involvement in Development of Emotional Maturity and Resilience Among Young Adult Males <i>Haritha Hari & Anna Pheenix T. S.</i>	53
54	Behavior Problems of Adolescents in Relation To Family Function and School Environment <i>Jisha P. K. & Nice Mary Francis P.</i>	54
55	Quality of Life and Anxiety Among Yoga and Non Yoga Practitioners <i>Jophiya P. J. & Sangeetha P. S.</i>	55
56	The Effect of Learning Styles on Academic Adaptation of High School Students <i>Kibilath Divan, Avani K. Devadas, Nijayas Prasad, Sreyakrishna T. J. & Lathif Penath*</i>	56
57	Impact of Birth order on Academic Procrastination Among Young Adults <i>Minsila Hilal, Haripriya M. T., Rameesa Parvin K. U. & Rafna Rafi Femina V. A.*</i>	57
58	Bullying and Resilience Among Adolescent <i>Muhammed Shahal T.* & Minsila Hilal</i>	58
59	Study Habit and Academic Performance Among Higher Secondary Students <i>Nimitha Premlal & Sangeetha P. S.</i>	59
60	Psychological Well Being and Social Avoidance and Distress Among Theist and Atheist <i>Rizwana M. A., Alfiya N. R., Sandra N. S., Abdul Salam & Farhana Nasar*</i>	60
61	Gender Role Beliefs and Academic Self-efficacy Among College Students in Numerically Female Dominated Education Streams <i>Sethulakshmi K. S. & Lathif Penath*</i>	61
62	Perceived Stress and Pornography Use Among Young Adults <i>Vijay Vlond K. & Minzila Hilal*</i>	62
63	Social Skills Training for Long Stay Psychiatric Patients Diagnosed with Schizophrenia: Effects and Implications <i>Vishnu Digambhar & Ranjeet Kumar</i>	63
64	Observation of Food and Feeding Behaviour of Nilgiri Langur (<i>Semnopithecus johnii</i>) in Nilgiri Forest Division, Tamil Nadu, Southern India <i>Jayaraman Ranjitha, Balasundaram Ramakrishnan & Selvaraju Raja</i>	64
65	A Study of Behavioural Patterns and Effect of Starvation on Fight Success in the Common House Cricket <i>Acheta Domesticus</i> <i>Jyothi V. & Bhavana C. B.</i>	65

Impact of Birth order on Academic Procrastination Among Young Adults

Minsila Hilal, Haripriya M. T., Rameesa Parvin K. U. & Rafna Rafi Femina V. A.*

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: feminamanaf013@gmail.com

Academic Procrastination is one among the major challenges faced by students today. Academic procrastination can be understood as knowing that one is supposed to and perhaps even wanting to, complete an academic task but failing to perform the activity within the expected or desired time frame. Procrastination has been most thoroughly studied in student populations where it has been associated with increased levels of stress, depression, anxiety and poor academic performance but also with putting of everyday obligations. Birth order can be stated as the chronological order of sibling births in a family. Several studies found birth order to be associated with many of the personality traits. The Academic Procrastination is one among the major challenges faced by students today. Academic procrastination can be understood as knowing that one is supposed to and perhaps even wanting to, complete an academic task but failing to perform the activity within the expected or desired time frame. Procrastination has been most thoroughly studied in student populations where it has been associated with increased levels of stress, depression, anxiety and poor academic performance but also with putting of everyday obligations. Birth order can be stated as the chronological order of sibling births in a family. Several studies found birth order to be associated with many of the personality traits. The main objective of the study was to find out whether the birth order is linked to traits such as procrastination. The study sought to understand the level of procrastination among students and to find out whether there is any difference in procrastination among firstborn, middle-born and last born. This is a quantitative cross-sectional study and the samples were drawn using the quota sampling technique. A total of 150 participants took part in the study with 50 belonging to first born 50 to middle born and 50 to last born. Data was collected using the 20-question version of Lay's Procrastination scale. The data is analysed using statistical package for the social sciences. The scores are analysed using one way ANOVA. There was no significant relationship between birth order and procrastination, but there was increase in procrastination in middle borns when compared to first born and last born.

KEYWORDS: Birth Order, Procrastination.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in



MRP : ₹300/-
ISBN: 978-93-5813-509-1



NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
53	Father's Involvement in Development of Emotional Maturity and Resilience Among Young Adult Males <i>Haritha Hari & Anna Pheenix T. S.</i>	53
54	Behavior Problems of Adolescents in Relation To Family Function and School Environment <i>Jisha P. K. & Nice Mary Francis P.</i>	54
55	Quality of Life and Anxiety Among Yoga and Non Yoga Practitioners <i>Jophiya P. J. & Sangeetha P. S.</i>	55
56	The Effect of Learning Styles on Academic Adaptation of High School Students <i>Kibilath Divan, Avani K. Devadas, Nijayas Prasad, Sreyakrishna T. J. & Lathif Penath*</i>	56
57	Impact of Birth order on Academic Procrastination Among Young Adults <i>Minsila Hilal, Haripriya M. T., Rameesa Parvin K. U. & Rafna Rafi Femina V. A.*</i>	57
58	Bullying and Resilience Among Adolescent <i>Muhammed Shahal T.* & Minsila Hilal</i>	58
59	Study Habit and Academic Performance Among Higher Secondary Students <i>Nimitha Premlal & Sangeetha P. S.</i>	59
60	Psychological Well Being and Social Avoidance and Distress Among Theist and Atheist <i>Rizwana M. A., Alfiya N. R., Sandra N. S., Abdul Salam & Farhana Nasar*</i>	60
61	Gender Role Beliefs and Academic Self-efficacy Among College Students in Numerically Female Dominated Education Streams <i>Sethulakshmi K. S. & Lathif Penath*</i>	61
62	Perceived Stress and Pornography Use Among Young Adults <i>Vijay Vlond K. & Minzila Hilal*</i>	62
63	Social Skills Training for Long Stay Psychiatric Patients Diagnosed with Schizophrenia: Effects and Implications <i>Vishnu Digambhar & Ranjeet Kumar</i>	63
64	Observation of Food and Feeding Behaviour of Nilgiri Langur (<i>Semnopithecus johnii</i>) in Nilgiri Forest Division, Tamil Nadu, Southern India <i>Jayaraman Ranjitha, Balasundaram Ramakrishnan & Selvaraju Raja</i>	64
65	A Study of Behavioural Patterns and Effect of Starvation on Fight Success in the Common House Cricket <i>Acheta Domesticus</i> <i>Jyothi V. & Bhavana C. B.</i>	65

Bullying and Resilience Among Adolescent

Muhammed Shahal T.* & Minsila Hilal

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: shahalt6@gmail.com

The aim of the study is to evaluate the relationship between bullying and resilience among adolescents in Thrissur district. It was a descriptive quantitative research design. Sample of 120 adolescents aged 13-18 years were recruited in Thrissur district, 60 boys and 60 girls participate in this study. Data was collected using Child adolescent bullying scale CABS (Gladden, Vivolo-Kantor, Hamburger, & Lumpkin, 2014) and Bharathiar university resilience scale BURS (ProfDr. Annalakshmi Narayanan, 2009) through field survey. The statistical significance of differences between genders was tested using t-test. Correlation was conducted to explore the relationship between bullying and resilience. The relationship was observed for all participants that there is no significant relationship between bullying and resilience in adolescents, There was no significant difference between bullying and resilience among adolescent boys and girls. Therefore, resilience is important for preventing bullying.

KEYWORDS: Bullying, Resilience, Adolescent.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in



MRP : ₹300/-
ISBN: 978-93-5813-509-1



NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
53	Father's Involvement in Development of Emotional Maturity and Resilience Among Young Adult Males <i>Haritha Hari & Anna Pheenix T. S.</i>	53
54	Behavior Problems of Adolescents in Relation To Family Function and School Environment <i>Jisha P. K. & Nice Mary Francis P.</i>	54
55	Quality of Life and Anxiety Among Yoga and Non Yoga Practitioners <i>Jophiya P. J. & Sangeetha P. S.</i>	55
56	The Effect of Learning Styles on Academic Adaptation of High School Students <i>Kibilath Divan, Avani K. Devadas, Nijayas Prasad, Sreyakrishna T. J. & Lathif Penath*</i>	56
57	Impact of Birth order on Academic Procrastination Among Young Adults <i>Minsila Hilal, Haripriya M. T., Rameesa Parvin K. U. & Rafna Rafi Femina V. A.*</i>	57
58	Bullying and Resilience Among Adolescent <i>Muhammed Shahal T.* & Minsila Hilal</i>	58
59	Study Habit and Academic Performance Among Higher Secondary Students <i>Nimitha Premlal & Sangeetha P. S.</i>	59
60	Psychological Well Being and Social Avoidance and Distress Among Theist and Atheist <i>Rizwana M. A., Alfiya N. R., Sandra N. S., Abdul Salam & Farhana Nasar*</i>	60
61	Gender Role Beliefs and Academic Self-efficacy Among College Students in Numerically Female Dominated Education Streams <i>Sethulakshmi K. S. & Lathif Penath*</i>	61
62	Perceived Stress and Pornography Use Among Young Adults <i>Vijay Vlond K. & Minzila Hilal*</i>	62
63	Social Skills Training for Long Stay Psychiatric Patients Diagnosed with Schizophrenia: Effects and Implications <i>Vishnu Digambhar & Ranjeet Kumar</i>	63
64	Observation of Food and Feeding Behaviour of Nilgiri Langur (<i>Semnopithecus johnii</i>) in Nilgiri Forest Division, Tamil Nadu, Southern India <i>Jayaraman Ranjitha, Balasundaram Ramakrishnan & Selvaraju Raja</i>	64
65	A Study of Behavioural Patterns and Effect of Starvation on Fight Success in the Common House Cricket <i>Acheta Domesticus</i> <i>Jyothi V. & Bhavana C. B.</i>	65

Perceived Stress and Pornography Use Among Young Adults

Vijay Viond K. & Minzila Hilal*

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: minzilahlal@gmail.com

Perceived stress and porn addiction are common issues among college students. Studies suggest that pornography use is related to lower mental well-being among young adults. The main aim of the study is to understand what relationship is sharing between perceived stress and pornography use among young adults and to assess whether there is a difference in male and female between perceived stress and pornography use. Perceived stress refers to the degree to which events in a person's life are assessed as stressful, unpredictable and uncontrollable (Cohen, Kamarck, & Mermelstein, 1983; Phillips, 2012). This is a descriptive quantitative study and convenient sampling method were used. 61 male and 61 female individuals participated in the study. Data were collected using the 10-question version of Perceived Stress Scale (pss-10), Pornography Assessing Screening Tool (past) and socio-demographic questionnaire (created for this study). Independent sample t test and Pearson correlation coefficient were used to analyse the data. Males and females showed no difference in perceived stress, while they showed significant difference in Pornography use.

KEYWORDS: Perceived Stress, Pornography Use, Young Adults.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in

MRP : ₹300/-
ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ ABSTRACTS

Editors:

Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

7

Sl. No.	Title & Authors	Page No.
39	A Novel Approach to the Synthesis of White Light Emitting Dy ³⁺ Doped Lanthanum Oxalate Single Crystals Via Hydro Silica Gel Method <i>Aryamol Stephen</i>	39
40	The Impact of Deposition Time on the Structural and Optical Properties of Flower-like PbS Thin Films <i>Ashitha T. M. & Sheeba N. H.*</i>	40
41	Structural Properties and Antibacterial activity of Copper Oxide Nanoparticles <i>Chithra B. & Sheeba N. H.*</i>	41
42	Anatase to Rutile Phase Transformation of TiO ₂ Nanoparticles <i>Hasna N. J., Anna Rose & Sheena P. A.*</i>	42
43	Inhibiting Action of Cu Doping on the Phase Transformation of TiO ₂ Nanoparticles <i>Shanu A. S., Greatel Paremél & Johns Naduvath*</i>	43
44	Investigation on Trivalent Neodymium Doped (Nd ³⁺) Fluoroborosilicate Glasses for Laser Application. <i>Sreedevi</i>	44
45	Parental Bonding and Perception of Success Among Late Adolescent Athletes <i>Adnan Hamza Kizhisseri, Minna Farhana, Pranav Mohan, Rasha K. M.* & Minsila Hilal.</i>	45
46	Suicidal Ideation and Academic Stress Among Grade X Students Following ICSE, State and CBSE Syllabi in Kerala: A Comparative Study <i>Alna Elisubha V. S., Vismaya B., Mohammed Saif Zidan & Soumya Starlet C. T.</i>	46
47	Academic Adaptability and Resilience Among College Students based on Learning Style <i>Ayisha A. P. & Latheef Paneth*</i>	47
48	Effect of Aggression on School Refusal Behavior Among Adolescence <i>Bhagya B. L. & Farhana Nazar*</i>	48
49	Pain Appraisal, Catastrophizing, Fear of Progression and Death Anxiety Among Cancer Patients <i>Elsa Elisabeth Wilson & Soumya Starlet C. T.</i>	49
50	Emotion Regulation, Coping Abilities and Cognitive Flexibility Among Service Oriented Youth Organisation Members and Non Members <i>Farhana Nasar, Anaswara C. G., Afta K. S., Muhammed sharik, Sneha Rajeevan N. K.*</i>	50
51	Perceived Social Support and Bullying Among Adolescents <i>Fathimath Hiba* & Farhana Nasar K.</i>	51
52	Relationship Between Expectationism and Self Care Behaviour Among Young Adults <i>Hareesh Mohan E. R. & Lathif Penath*</i>	52

Academic Adaptability and Resilience Among College Students based on Learning Style

Ayisha A. P. & Latheef Paneth*

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

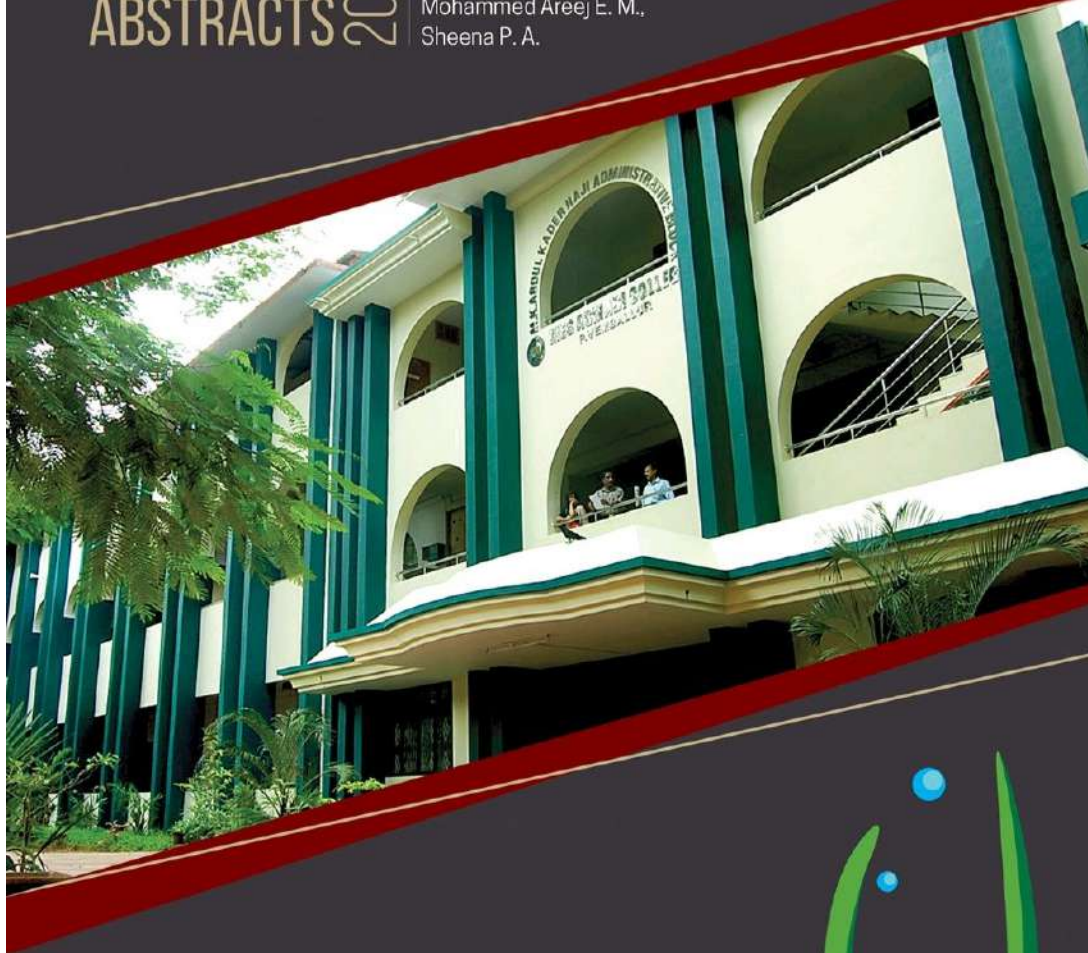
*Corresponding author: lathipenathpsy@gmail.com

The aim of this study is to examine the difference between academic adaptability and resilience among college students based on their learning style, and the dependence of academic adaptability and resilience on learning style. 60 visual learners and 60 auditory learners aged between 18 to 25 from the college students participated in this study. The data collected using Academic adaptation scale(Wu, Fan & WEIHUA - 2017), Bharathiar university resilience scale BURS (Prof Dr. Annalakshmi Narayanan, M.A, PhD, JDS(ISI), Professor department of psychology, Bharathiar University Coimbatore) And learning style questionnaire(O'Brien - 1985)along with a self made data schedule through online survey. Data was collected according to stratified sampling technique. The collected data were analyzed using SPSS statistical tools and appropriate statistical techniques such as descriptive statistics and independent t-test. The major finding shows such as the visual learners have more academic adaptability and resilience comparatively to the auditory learners, there is significance in academic adaptability and resilience among college students based on learning style, And there is a significant correlation between academic adaptability and resilience.

KEYWORDS: Academic Adaptation, Resilience, Learning Style.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in



MRP : ₹300/-
ISBN: 978-93-5813-509-1



NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

7

Sl. No.	Title & Authors	Page No.
39	A Novel Approach to the Synthesis of White Light Emitting Dy ³⁺ Doped Lanthanum Oxalate Single Crystals Via Hydro Silica Gel Method <i>Aryamol Stephen</i>	39
40	The Impact of Deposition Time on the Structural and Optical Properties of Flower-like PbS Thin Films <i>Ashitha T. M. & Sheeba N. H.*</i>	40
41	Structural Properties and Antibacterial activity of Copper Oxide Nanoparticles <i>Chithra B. & Sheeba N. H.*</i>	41
42	Anatase to Rutile Phase Transformation of TiO ₂ Nanoparticles <i>Hasna N. J., Anna Rose & Sheena P. A.*</i>	42
43	Inhibiting Action of Cu Doping on the Phase Transformation of TiO ₂ Nanoparticles <i>Shanu A. S., Greatel Paremél & Johns Naduvath*</i>	43
44	Investigation on Trivalent Neodymium Doped (Nd ³⁺) Fluoroborosilicate Glasses for Laser Application. <i>Sreedevi</i>	44
45	Parental Bonding and Perception of Success Among Late Adolescent Athletes <i>Adnan Hamza Kizhisseri, Minna Farhana, Pranav Mohan, Rasha K. M.* & Minsila Hilal.</i>	45
46	Suicidal Ideation and Academic Stress Among Grade X Students Following ICSE, State and CBSE Syllabi in Kerala: A Comparative Study <i>Alna Elisubha V. S., Vismaya B., Mohammed Saif Zidan & Soumya Starlet C. T.</i>	46
47	Academic Adaptability and Resilience Among College Students based on Learning Style <i>Ayisha A. P. & Latheef Paneth*</i>	47
48	Effect of Aggression on School Refusal Behavior Among Adolescence <i>Bhagya B. L. & Farhana Nazar*</i>	48
49	Pain Appraisal, Catastrophizing, Fear of Progression and Death Anxiety Among Cancer Patients <i>Elsa Elisabeth Wilson & Soumya Starlet C. T.</i>	49
50	Emotion Regulation, Coping Abilities and Cognitive Flexibility Among Service Oriented Youth Organisation Members and Non Members <i>Farhana Nasar, Anaswara C. G., Afa K. S., Muhammed sharik, Sneha Rajeevan N. K.*</i>	50
51	Perceived Social Support and Bullying Among Adolescents <i>Fathimath Hiba* & Farhana Nasar K.</i>	51
52	Relationship Between Expectationism and Self Care Behaviour Among Young Adults <i>Hareesh Mohan E. R. & Lathif Penath*</i>	52

Relationship Between Expectationism and Self Care Behaviour Among Young Adults

Hareesh Mohan E. R. & Lathif Penath*

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: lathifpenathpsy@gmail.com

The attitude of young adults towards the present time and future may influence in their self care behaviors. The purpose of this study is to analyze the relationship between Expectationism and Self-Care Behaviors in young adults. The study was conducted among a sample of 165 adults from the population in kodungalloor locality in thrissur district of state kerala through a online survey. This is a correlational study and convenient sampling method was used. Time Horizon Questionnaire (Gerald J.S Wilde, 2001), B-Mindful Self-Care Scale (Hotchkiss JT, Cook-Cottone CP, 2019) - short version were the two tools used to measure expectationism and self care behavior respectively. The collected data was analyzed using SPSS statistical tool and the appropriate statistical technique was pearson's correlation coefficient. This study does not include participants who are below 18 years of age and above 25 years of age. The results showed no significant relationship between Expectationism and Self Care Behaviour among young adults. Increasing perceived value of future over the present among young adults does not play as a key factor in promoting their self care behaviors.

KEYWORDS: Expectationism, Self Care Behaviour, Young Adults.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in



MRP : ₹300/-
ISBN: 978-93-5813-509-1



NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
53	Father's Involvement in Development of Emotional Maturity and Resilience Among Young Adult Males <i>Haritha Hari & Anna Pheenix T. S.</i>	53
54	Behavior Problems of Adolescents in Relation To Family Function and School Environment <i>Jisha P. K. & Nice Mary Francis P.</i>	54
55	Quality of Life and Anxiety Among Yoga and Non Yoga Practitioners <i>Jophiya P. J. & Sangeetha P. S.</i>	55
56	The Effect of Learning Styles on Academic Adaptation of High School Students <i>Kibilath Divan, Avani K. Devadas, Nijayas Prasad, Sreyakrishna T. J. & Lathif Penath*</i>	56
57	Impact of Birth order on Academic Procrastination Among Young Adults <i>Minsila Hilal, Haripriya M. T., Rameesa Parvin K. U. & Rafna Rafi Femina V. A.*</i>	57
58	Bullying and Resilience Among Adolescent <i>Muhammed Shahal T.* & Minsila Hilal</i>	58
59	Study Habit and Academic Performance Among Higher Secondary Students <i>Nimitha Premlal & Sangeetha P. S.</i>	59
60	Psychological Well Being and Social Avoidance and Distress Among Theist and Atheist <i>Rizwana M. A., Alfiya N. R., Sandra N. S., Abdul Salam & Farhana Nasar*</i>	60
61	Gender Role Beliefs and Academic Self-efficacy Among College Students in Numerically Female Dominated Education Streams <i>Sethulakshmi K. S. & Lathif Penath*</i>	61
62	Perceived Stress and Pornography Use Among Young Adults <i>Vijay Vlond K. & Minzila Hilal*</i>	62
63	Social Skills Training for Long Stay Psychiatric Patients Diagnosed with Schizophrenia: Effects and Implications <i>Vishnu Digambhar & Ranjeet Kumar</i>	63
64	Observation of Food and Feeding Behaviour of Nilgiri Langur (<i>Semnopithecus johnii</i>) in Nilgiri Forest Division, Tamil Nadu, Southern India <i>Jayaraman Ranjitha, Balasundaram Ramakrishnan & Selvaraju Raja</i>	64
65	A Study of Behavioural Patterns and Effect of Starvation on Fight Success in the Common House Cricket <i>Acheta Domesticus</i> <i>Jyothi V. & Bhavana C. B.</i>	65

The Effect of Learning Styles on Academic Adaptation of High School Students

Kibilath Divan, Avani K. Devadas, Nijayas Prasad, Sreyakrishna T. J. & Lathif Penath*

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

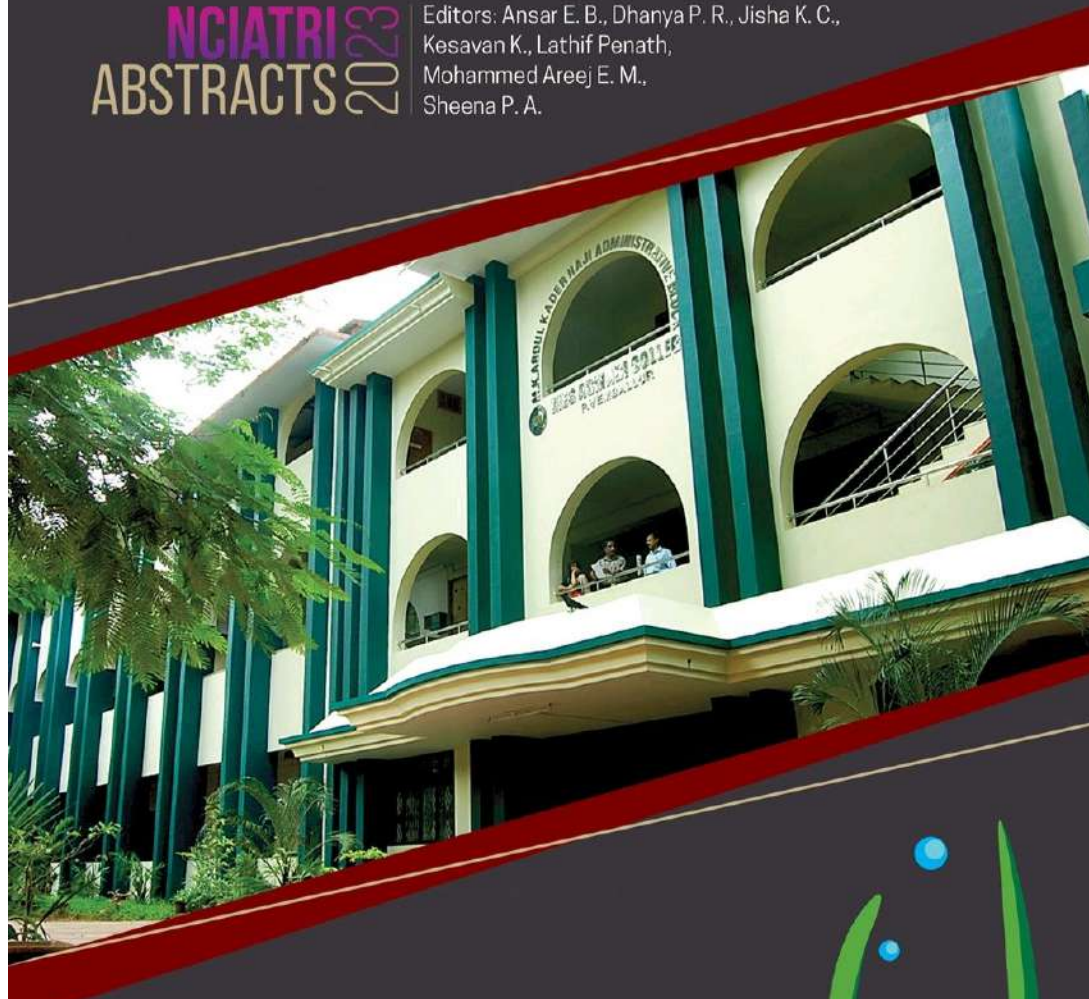
*Corresponding author: lathifpenathpsy@gmail.com

The present study examines the relationship between psychological wellbeing and social avoidance & distress among theist and atheist and to assess whether there is any difference between these variables among theist and atheist. Psychological well-being is a complex construct that concerns optimal psychological functioning and experience. It may be defined as including hedonic (enjoyment, pleasure) and eudaimonic (meaning, fulfilment). Psychological well-being scale consists of self-acceptance, positive relationships with others, autonomy, environmental mastery, a feeling of purpose and meaning in life, and personal growth and development. Social avoidance is defined as the desire to escape or actually avoiding being with, talking to, or interacting with others for any reason. The total sample is 104. The sample were collected from 52 theist and 52 atheist aged 18 to 40. The psychological wellbeing scale and SADS (social avoidance and distress) were used in this study. Data were collected according to stratified sampling technique. The collected data was analysed using SPSS statistical tool and appropriate statistical technique such as descriptive statistics, correlation and independent t test were used. The major finding of this study was there is a significant negative correlation with the above mentioned two variables among these samples and Theist and atheist showed no significant difference in psychological wellbeing and social avoidance & distress.

KEYWORDS: Learning Style, Academic Adaptation, Learning Style Questionnaire.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in

MRP : ₹300/-
ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
53	Father's Involvement in Development of Emotional Maturity and Resilience Among Young Adult Males <i>Haritha Hari & Anna Pheenix T. S.</i>	53
54	Behavior Problems of Adolescents in Relation To Family Function and School Environment <i>Jisha P. K. & Nice Mary Francis P.</i>	54
55	Quality of Life and Anxiety Among Yoga and Non Yoga Practitioners <i>Jophiya P. J. & Sangeetha P. S.</i>	55
56	The Effect of Learning Styles on Academic Adaptation of High School Students <i>Kibilath Divan, Avani K. Devadas, Nijayas Prasad, Sreyakrishna T. J. & Lathif Penath*</i>	56
57	Impact of Birth order on Academic Procrastination Among Young Adults <i>Minsila Hilal, Haripriya M. T., Rameesa Parvin K. U. & Rafna Rafi Femina V. A.*</i>	57
58	Bullying and Resilience Among Adolescent <i>Muhammed Shahal T.* & Minsila Hilal</i>	58
59	Study Habit and Academic Performance Among Higher Secondary Students <i>Nimitha Premlal & Sangeetha P. S.</i>	59
60	Psychological Well Being and Social Avoidance and Distress Among Theist and Atheist <i>Rizwana M. A., Alfiya N. R., Sandra N. S., Abdul Salam & Farhana Nasar*</i>	60
61	Gender Role Beliefs and Academic Self-efficacy Among College Students in Numerically Female Dominated Education Streams <i>Sethulakshmi K. S. & Lathif Penath*</i>	61
62	Perceived Stress and Pornography Use Among Young Adults <i>Vijay Vlond K. & Minzila Hilal*</i>	62
63	Social Skills Training for Long Stay Psychiatric Patients Diagnosed with Schizophrenia: Effects and Implications <i>Vishnu Digambhar & Ranjeet Kumar</i>	63
64	Observation of Food and Feeding Behaviour of Nilgiri Langur (<i>Semnopithecus johnii</i>) in Nilgiri Forest Division, Tamil Nadu, Southern India <i>Jayaraman Ranjitha, Balasundaram Ramakrishnan & Selvaraju Raja</i>	64
65	A Study of Behavioural Patterns and Effect of Starvation on Fight Success in the Common House Cricket <i>Acheta Domesticus</i> <i>Jyothi V. & Bhavana C. B.</i>	65

Gender Role Beliefs and Academic Self-efficacy Among College Students in Numerically Female Dominated Education Streams

Sethulakshmi K. S. & Lathif Penath*

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

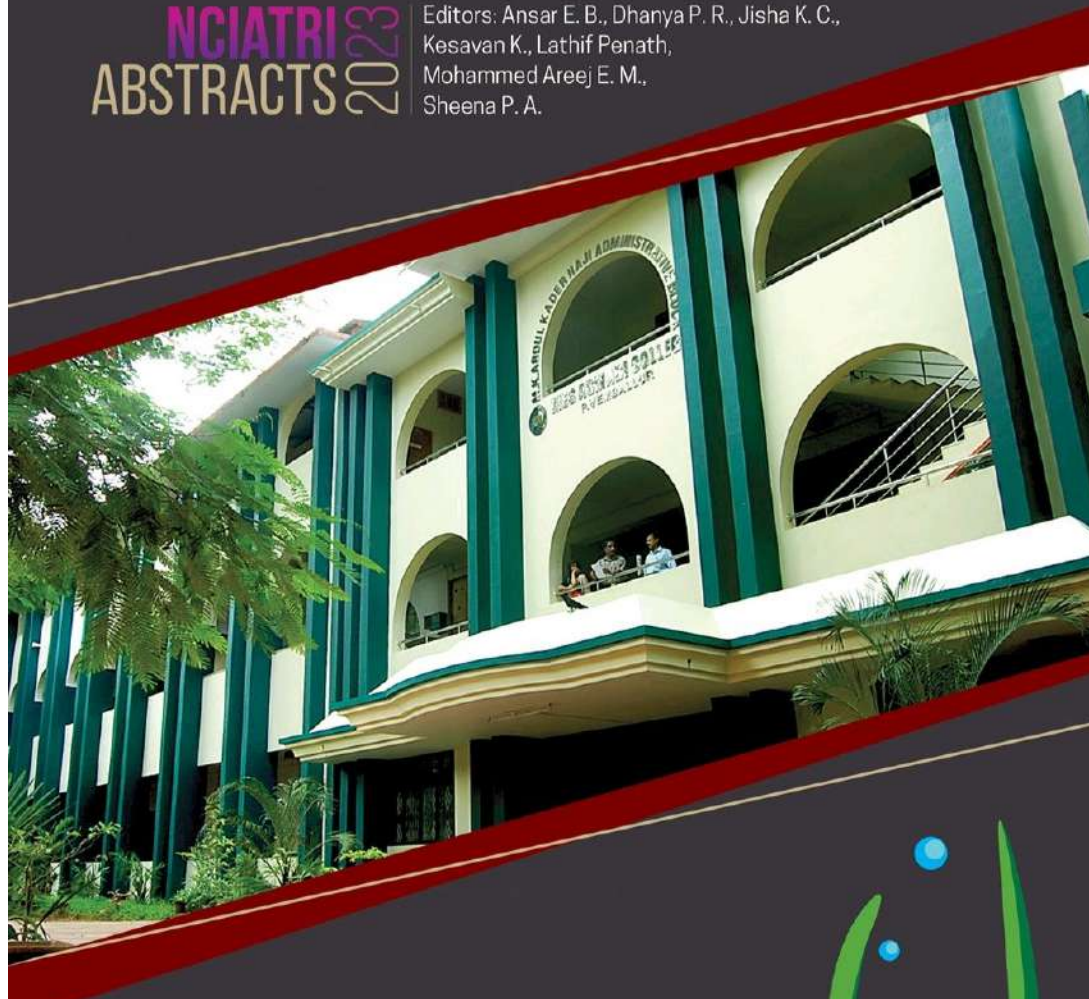
*Corresponding author: lathifpenathpsy@gmail.com

The aim of the study is to examine the differences in gender role beliefs and academic self-efficacy among students college students in numerically female dominated education streams and make within-gender comparisons across these contexts. 62 male and 66 female students from various numerically female dominated education streams participated in this study. Data was collected using Attitudes Towards Women Scale (Spence, Helmrich & Stapp, 1978) – Short version and Academic Self-Efficacy Scale (Abdul Gafoor K. & P. Muhammed Ashraf, 2006) along with a self-made personal data schedule through online survey. Data was collected according to stratified sampling technique. The collected data were analysed using SPSS statistical tool and appropriate statistical techniques such as descriptive statistics and independent t-test. The major finding showed that there is significant difference in gender role beliefs and academic self-efficacy among male and female students in numerically female dominated education streams. Female students of numerically female dominated education streams did not exhibit traditional attitudes toward women compared to male students and also Male students of numerically female dominated education streams showed lower academic self-efficacy than female students.

KEYWORDS: Gender Role Beliefs, Attitude Towards Women, Academic Self-efficacy and Gender.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in



MRP : ₹300/-
ISBN: 978-93-5813-509-1



NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

7

Sl. No.	Title & Authors	Page No.
39	A Novel Approach to the Synthesis of White Light Emitting Dy ³⁺ Doped Lanthanum Oxalate Single Crystals Via Hydro Silica Gel Method <i>Aryamol Stephen</i>	39
40	The Impact of Deposition Time on the Structural and Optical Properties of Flower-like PbS Thin Films <i>Ashitha T. M. & Sheeba N. H.*</i>	40
41	Structural Properties and Antibacterial activity of Copper Oxide Nanoparticles <i>Chithra B. & Sheeba N. H.*</i>	41
42	Anatase to Rutile Phase Transformation of TiO ₂ Nanoparticles <i>Hasna N. J., Anna Rose & Sheena P. A.*</i>	42
43	Inhibiting Action of Cu Doping on the Phase Transformation of TiO ₂ Nanoparticles <i>Shanu A. S., Greate! Parem! & Johns Naduvath*</i>	43
44	Investigation on Trivalent Neodymium Doped (Nd ³⁺) Fluoroborosilicate Glasses for Laser Application. <i>Sreedevi</i>	44
45	Parental Bonding and Perception of Success Among Late Adolescent Athletes <i>Adnan Hamza Kizhisseri, Minna Farhana, Pranav Mohan, Rasha K. M.* & Minsila Hila.</i>	45
46	Suicidal Ideation and Academic Stress Among Grade X Students Following ICSE, State and CBSE Syllabi in Kerala: A Comparative Study <i>Alna Elisubha V. S., Vismaya B., Mohammed Saif Zidan & Soumya Starlet C. T.</i>	46
47	Academic Adaptability and Resilience Among College Students based on Learning Style <i>Ayisha A. P. & Latheef Paneth*</i>	47
48	Effect of Aggression on School Refusal Behavior Among Adolescence <i>Bhagya B. L. & Farhana Nazar*</i>	48
49	Pain Appraisal, Catastrophizing, Fear of Progression and Death Anxiety Among Cancer Patients <i>Elsa Elisabeth Wilson & Soumya Starlet C. T.</i>	49
50	Emotion Regulation, Coping Abilities and Cognitive Flexibility Among Service Oriented Youth Organisation Members and Non Members <i>Farhana Nasar, Anaswara C. G., Afla K. S., Muhammed sharik, Sneha Rajeevan N. K.*</i>	50
51	Perceived Social Support and Bullying Among Adolescents <i>Fathimath Hiba* & Farhana Nasar K.</i>	51
52	Relationship Between Expectationism and Self Care Behaviour Among Young Adults <i>Hareesh Mohan E. R. & Lathif Penath*</i>	52

Effect of Aggression on School Refusal Behavior Among Adolescence

Bhagya B. L. & Farhana Nazar*

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

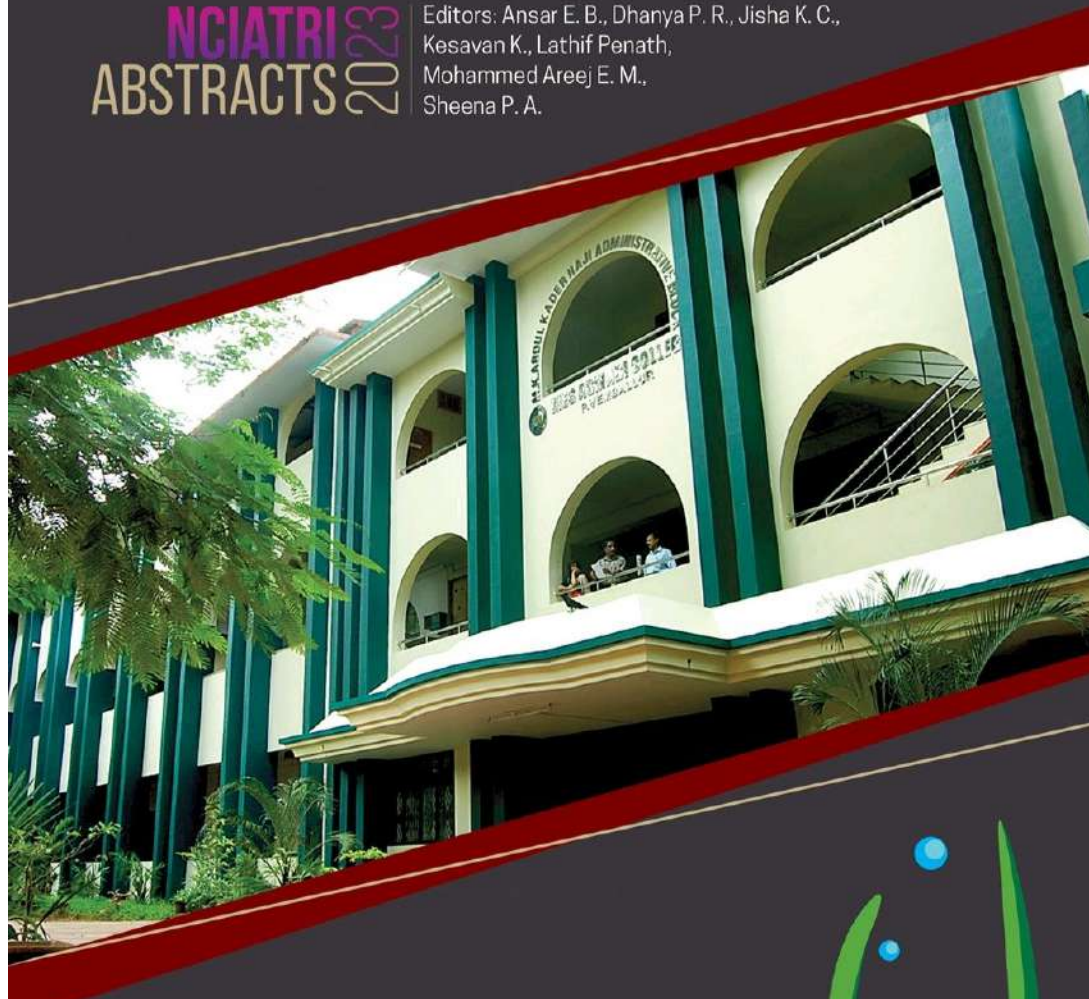
*Corresponding author: farhananazar64.fn@gmail.com

In order to reduce school attendance problems and aggressive behavior and also for better avademic and personal development of childrens in society, it is Essential to determine the relationship between both variables. The aim of this study was to examine the relationship between school refusal behaviour and aggression among adolescence . The sample consisted of 100 secondary school students of Kodungallur subdistrict , aged 13–16. The School Refusal Assessment Scale-Revised and the Aggression Questionnaire were used. The method used were convineint sampling method and data were analysed through Karl Pearson correlation test. The findings found no significant relationship between aggression and school refusal behavior.

KEYWORDS: Aggression, School Refusal, Adolescence.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in



MRP : ₹300/-
ISBN: 978-93-5813-509-1



NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

7

Sl. No.	Title & Authors	Page No.
39	A Novel Approach to the Synthesis of White Light Emitting Dy ³⁺ Doped Lanthanum Oxalate Single Crystals Via Hydro Silica Gel Method <i>Aryamol Stephen</i>	39
40	The Impact of Deposition Time on the Structural and Optical Properties of Flower-like PbS Thin Films <i>Ashitha T. M. & Sheeba N. H.*</i>	40
41	Structural Properties and Antibacterial activity of Copper Oxide Nanoparticles <i>Chithra B. & Sheeba N. H.*</i>	41
42	Anatase to Rutile Phase Transformation of TiO ₂ Nanoparticles <i>Hasna N. J., Anna Rose & Sheena P. A.*</i>	42
43	Inhibiting Action of Cu Doping on the Phase Transformation of TiO ₂ Nanoparticles <i>Shanu A. S., Greatel Paremel & Johns Naduvath*</i>	43
44	Investigation on Trivalent Neodymium Doped (Nd ³⁺) Fluoroborosilicate Glasses for Laser Application. <i>Sreedevi</i>	44
45	Parental Bonding and Perception of Success Among Late Adolescent Athletes <i>Adnan Hamza Kizhisseri, Minna Farhana, Pranav Mohan, Rasha K. M.* & Minsila Hillal.</i>	45
46	Suicidal Ideation and Academic Stress Among Grade X Students Following ICSE, State and CBSE Syllabi in Kerala: A Comparative Study <i>Alna Elisubha V. S., Vismaya B., Mohammed Saif Zidan & Soumya Starlet C. T.</i>	46
47	Academic Adaptability and Resilience Among College Students based on Learning Style <i>Ayisha A. P. & Latheef Paneth*</i>	47
48	Effect of Aggression on School Refusal Behavior Among Adolescence <i>Bhagya B. L. & Farhana Nazar*</i>	48
49	Pain Appraisal, Catastrophizing, Fear of Progression and Death Anxiety Among Cancer Patients <i>Elsa Elisabeth Wilson & Soumya Starlet C. T.</i>	49
50	Emotion Regulation, Coping Abilities and Cognitive Flexibility Among Service Oriented Youth Organisation Members and Non Members <i>Farhana Nasar, Anaswara C. G., Afla K. S., Muhammed sharik, Sneha Rajeevan N. K.*</i>	50
51	Perceived Social Support and Bullying Among Adolescents <i>Fathimath Hiba* & Farhana Nasar K.</i>	51
52	Relationship Between Expectationism and Self Care Behaviour Among Young Adults <i>Hareesh Mohan E. R. & Lathif Penath*</i>	52

Emotion Regulation, Coping Abilities and Cognitive Flexibility Among Service Oriented Youth Organisation Members and Non Members

Farhana Nasar, Anaswara C. G., Afla K. S., Muhammed sharik, Sneha Rajeevan N. K.*

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: sneha14rnk@gmail.com

The present study aims to assess the difference in emotion regulation, coping ability and cognitive flexibility of members of official service-oriented youth organisations from that of non-members. Emotion regulation is the ability to accept control over one's own emotional state. It may involve behaviours. Such as rethinking a challenging situation to reduce anger and anxiety, hiding visible signs of sadness or fear or focusing on reasons to feel happy or calm. Coping abilities are the methods a person uses to deal with stressful situations. This may help a person to face a situation, take action, and be flexible and persistent in solving problems. Cognitive flexibility is the readiness with which one can selectively switch between mental processes to Generate appropriate behavioural responses. A total sample of 200 emerging adults (18-22) were taken. The samples were divided into 100 members of the service-oriented group and 100 non-members. Emotion regulation questionnaire (ERQ). Coping scale and Cognitive flexibility inventory(CFI) were used as measures of study along with a self-made personal data schedule which includes name, age, gender, qualification, whether members of an official youth organization or not were collected without any other details. Data was collected according to cluster sampling technique. The collected data was analysed using SPSS statistical tools and appropriate statistical techniques such as descriptive statistics and independent T test were used. The major findings of the study include that there is no significant difference between emotion regulation coping ability and cognitive flexibility of members and non-members of official service-oriented youth organizations.

KEYWORDS: Emotion Regulation, Coping Ability, Cognitive Flexibility, Youth Organisation Members, Non-members.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:

MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)

Re-accredited by NAAC with B++ grade

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.

Ph : 0480-2850596

e-mail: principal.mesasmabi@gmail.com

website: www.mesasmabicollege.edu.in

MRP : ₹300/-

ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

7

Sl. No.	Title & Authors	Page No.
39	A Novel Approach to the Synthesis of White Light Emitting Dy ³⁺ Doped Lanthanum Oxalate Single Crystals Via Hydro Silica Gel Method <i>Aryamol Stephen</i>	39
40	The Impact of Deposition Time on the Structural and Optical Properties of Flower-like PbS Thin Films <i>Ashitha T. M. & Sheeba N. H.*</i>	40
41	Structural Properties and Antibacterial activity of Copper Oxide Nanoparticles <i>Chithra B. & Sheeba N. H.*</i>	41
42	Anatase to Rutile Phase Transformation of TiO ₂ Nanoparticles <i>Hasna N. J., Anna Rose & Sheena P. A.*</i>	42
43	Inhibiting Action of Cu Doping on the Phase Transformation of TiO ₂ Nanoparticles <i>Shanu A. S., Greatel Paremél & Johns Naduvath*</i>	43
44	Investigation on Trivalent Neodymium Doped (Nd ³⁺) Fluoroborosilicate Glasses for Laser Application. <i>Sreedevi</i>	44
45	Parental Bonding and Perception of Success Among Late Adolescent Athletes <i>Adnan Hamza Kizhisseri, Minna Farhana, Pranav Mohan, Rasha K. M.* & Minsila Hllal.</i>	45
46	Suicidal Ideation and Academic Stress Among Grade X Students Following ICSE, State and CBSE Syllabi in Kerala: A Comparative Study <i>Alna Elisubha V. S., Vismaya B., Mohammed Saif Zidan & Soumya Starlet C. T.</i>	46
47	Academic Adaptability and Resilience Among College Students based on Learning Style <i>Ayisha A. P. & Latheef Paneth*</i>	47
48	Effect of Aggression on School Refusal Behavior Among Adolescence <i>Bhagya B. L. & Farhana Nazar*</i>	48
49	Pain Appraisal, Catastrophizing, Fear of Progression and Death Anxiety Among Cancer Patients <i>Elsa Elisabeth Wilson & Soumya Starlet C. T.</i>	49
50	Emotion Regulation, Coping Abilities and Cognitive Flexibility Among Service Oriented Youth Organisation Members and Non Members <i>Farhana Nasar, Anaswara C. G., Afla K. S., Muhammed sharik, Sneha Rajeevan N. K.*</i>	50
51	Perceived Social Support and Bullying Among Adolescents <i>Fathimath Hiba* & Farhana Nasar K.</i>	51
52	Relationship Between Expectationism and Self Care Behaviour Among Young Adults <i>Hareesh Mohan E. R. & Lathif Penath*</i>	52

Perceived Social Support and Bullying Among Adolescents

Fathimath Hiba* & Farhana Nasar K.

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: hibaabi952@gmail.com

Perceived social support can have a significant impact on bullying, both in terms of the likelihood of being bullied and the effects of being bullied. Perceived social support refers to an individual's perception of the availability of support from others, including family, friends, teachers, and other community members. The purpose of this study is to analyse the influence of perceived social support from family, friends and others among bullied students. This study was conducted among 160 adolescent students aged between 12-18 years. The required data was collected using Child Adolescent Bullying Scale (CABS) and Multidimensional Scale for Perceived Social Support (MSPSS). Convenient sampling method was used and the data were analysed through Karl Pearson Correlation test. The result shows that there is negative correlation between bullying and perceived social support from family, friends and others among adolescents. And perceived social support is an important factor to consider when addressing and preventing bullying. Building strong support networks and fostering a sense of community can help reduce the incidence of bullying and mitigate its negative effects on individuals who do experience it.

KEYWORDS: Perceived Social Support, Bullying, Adolescents.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:

MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UGC,
Minority Institution Certified by National Minority Education Commission)

Re-accredited by NAAC with B++ grade

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.

Ph : 0480-2850596

e-mail: principal.mesasmabi@gmail.com

website: www.mesasmabicollege.edu.in

MRP : ₹300/-

ISBN: 978-93-5813-509-1





NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
53	Father's Involvement in Development of Emotional Maturity and Resilience Among Young Adult Males <i>Haritha Hari & Anna Pheenix T. S.</i>	53
54	Behavior Problems of Adolescents in Relation To Family Function and School Environment <i>Jisha P. K. & Nice Mary Francis P.</i>	54
55	Quality of Life and Anxiety Among Yoga and Non Yoga Practitioners <i>Jophiya P. J. & Sangeetha P. S.</i>	55
56	The Effect of Learning Styles on Academic Adaptation of High School Students <i>Kibilath Divan, Avani K. Devadas, Nijayas Prasad, Sreyakrishna T. J. & Lathif Penath*</i>	56
57	Impact of Birth order on Academic Procrastination Among Young Adults <i>Minsila Hilal, Haripriya M. T., Rameesa Parvin K. U. & Rafna Rafi Femina V. A.*</i>	57
58	Bullying and Resilience Among Adolescent <i>Muhammed Shahal T.* & Minsila Hilal</i>	58
59	Study Habit and Academic Performance Among Higher Secondary Students <i>Nimitha Premlal & Sangeetha P. S.</i>	59
60	Psychological Well Being and Social Avoidance and Distress Among Theist and Atheist <i>Rizwana M. A., Alfiya N. R., Sandra N. S., Abdul Salam & Farhana Nasar*</i>	60
61	Gender Role Beliefs and Academic Self-efficacy Among College Students in Numerically Female Dominated Education Streams <i>Sethulakshmi K. S. & Lathif Penath*</i>	61
62	Perceived Stress and Pornography Use Among Young Adults <i>Vijay Vlond K. & Minzila Hilal*</i>	62
63	Social Skills Training for Long Stay Psychiatric Patients Diagnosed with Schizophrenia: Effects and Implications <i>Vishnu Digambhar & Ranjeet Kumar</i>	63
64	Observation of Food and Feeding Behaviour of Nilgiri Langur (<i>Semnopithecus johnii</i>) in Nilgiri Forest Division, Tamil Nadu, Southern India <i>Jayaraman Ranjitha, Balasundaram Ramakrishnan & Selvaraju Raja</i>	64
65	A Study of Behavioural Patterns and Effect of Starvation on Fight Success in the Common House Cricket <i>Acheta Domesticus</i> <i>Jyothi V. & Bhavana C. B.</i>	65

Psychological Well Being and Social Avoidance and Distress Among Theist and Atheist

Rizwana M. A., Alfiya N. R., Sandra N. S., Abdul Salam & Farhana Nasar*

Dept. of Psychology, MES Asmabi College, P. Vemballur, Kodungallur, Kerala.

*Corresponding author: farhananazar64.fn@gmail.com

There are different learning styles prevalent among students. The well-known among them are visual, auditory, and kinesthetic. The purpose of the present study was to analyze the effect of learning styles on the academic adaptation of high school students. The Learning Style Questionnaire (LSQ-30) was administered in three schools to identify the learning styles predominant among students. A sample of 180 students of class 8,9 and 10 were selected for the study through stratified sampling method. Pure Procrastination Scale and Motivational Engagement Instrument were used to measure academic adaptation. Kruskal-wallis test was used to determine significant difference in Academic Adaptation among students based on learning Styles and Mann-Whitney U test was used to determine significant difference in academic adaptation based on Gender. And the result shows that learning styles has a significant effect on Academic adaptation. There is no significant difference on academic adaptation based on gender.

KEYWORDS: Psychological Wellbeing, Social Avoidance & Distress, Theist & Atheist.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



MES ASMABI COLLEGE
P. VEMBALLUR

Published by:

MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)

Re-accredited by NAAC with B++ grade

P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.

Ph : 0480-2850596

e-mail: principal.mesasmabi@gmail.com

website: www.mesasmabicollege.edu.in

MRP : ₹300/-

ISBN: 978-93-5813-509-1





MES AIYAR COLLEGE
KUMBALANGI

NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**

NCIATRI²⁰²³ **ABSTRACTS**

Editors:

**Ansar E. B., Dhanya P. R.,
Jisha K. C., Kesavan K., Lathif Penath,
Mohammed Areej E. M. & Sheena P. A.**



MES ASMABI COLLEGE
P. Vemballur, Kodungallur, Kerala, India - 680 671.

Editors:

Dr. Ansar E. B.

Dr. Dhanya P. R.

Dr. Jisha K. C.

Dr. Kesavan K.

Mr. Lathif Penath

Mr. Mohammed Areej E. M.

Dr. Sheena P. A.

© Jisha K. C.

First Edition: May 2023

ISBN: 978-93-5813-509-1

All rights reserved. No part of this publication may be reproduced, stored in or introduced into retrieval system or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher. Authors are solely responsible for the contents of the chapters in this volume. The editor has the best effort in the preparation of this book. Errors, if any, are purely unintentional and readers are requested to intimate the errors to the editor to avoid discrepancies in the future.

Published by:

MES Asmabi College, P. Vemballur, Kodungallur, Kerala, India.

PIN: 680671

Price: ₹300/-

Date of publication: 25 May 2023

Design & layout: Aneesh C. S., Make Design Studio, Mathilakam, Kerala, India.

Contents

Sl. No.	Title & Authors	Page No.
53	Father's Involvement in Development of Emotional Maturity and Resilience Among Young Adult Males <i>Haritha Hari & Anna Pheenix T. S.</i>	53
54	Behavior Problems of Adolescents in Relation To Family Function and School Environment <i>Jisha P. K. & Nice Mary Francis P.</i>	54
55	Quality of Life and Anxiety Among Yoga and Non Yoga Practitioners <i>Jophiya P. J. & Sangeetha P. S.</i>	55
56	The Effect of Learning Styles on Academic Adaptation of High School Students <i>Kibilath Divan, Avani K. Devadas, Nijayas Prasad, Sreyakrishna T. J. & Lathif Penath*</i>	56
57	Impact of Birth order on Academic Procrastination Among Young Adults <i>Minsila Hilal, Haripriya M. T., Rameesa Parvin K. U. & Rafna Rafi Femina V. A.*</i>	57
58	Bullying and Resilience Among Adolescent <i>Muhammed Shahal T.* & Minsila Hilal</i>	58
59	Study Habit and Academic Performance Among Higher Secondary Students <i>Nimitha Premlal & Sangeetha P. S.</i>	59
60	Psychological Well Being and Social Avoidance and Distress Among Theist and Atheist <i>Rizwana M. A., Alfiya N. R., Sandra N. S., Abdul Salam & Farhana Nasar*</i>	60
61	Gender Role Beliefs and Academic Self-efficacy Among College Students in Numerically Female Dominated Education Streams <i>Sethulakshmi K. S. & Lathif Penath*</i>	61
62	Perceived Stress and Pornography Use Among Young Adults <i>Vijay Vlond K. & Minzila Hilal*</i>	62
63	Social Skills Training for Long Stay Psychiatric Patients Diagnosed with Schizophrenia: Effects and Implications <i>Vishnu Digambhar & Ranjeet Kumar</i>	63
64	Observation of Food and Feeding Behaviour of Nilgiri Langur (<i>Semnopithecus johnii</i>) in Nilgiri Forest Division, Tamil Nadu, Southern India <i>Jayaraman Ranjitha, Balasundaram Ramakrishnan & Selvaraju Raja</i>	64
65	A Study of Behavioural Patterns and Effect of Starvation on Fight Success in the Common House Cricket <i>Acheta Domesticus</i> <i>Jyothi V. & Bhavana C. B.</i>	65

A Study of Behavioural Patterns and Effect of Starvation on Fight Success in the Common House Cricket *Acheta Domesticus*

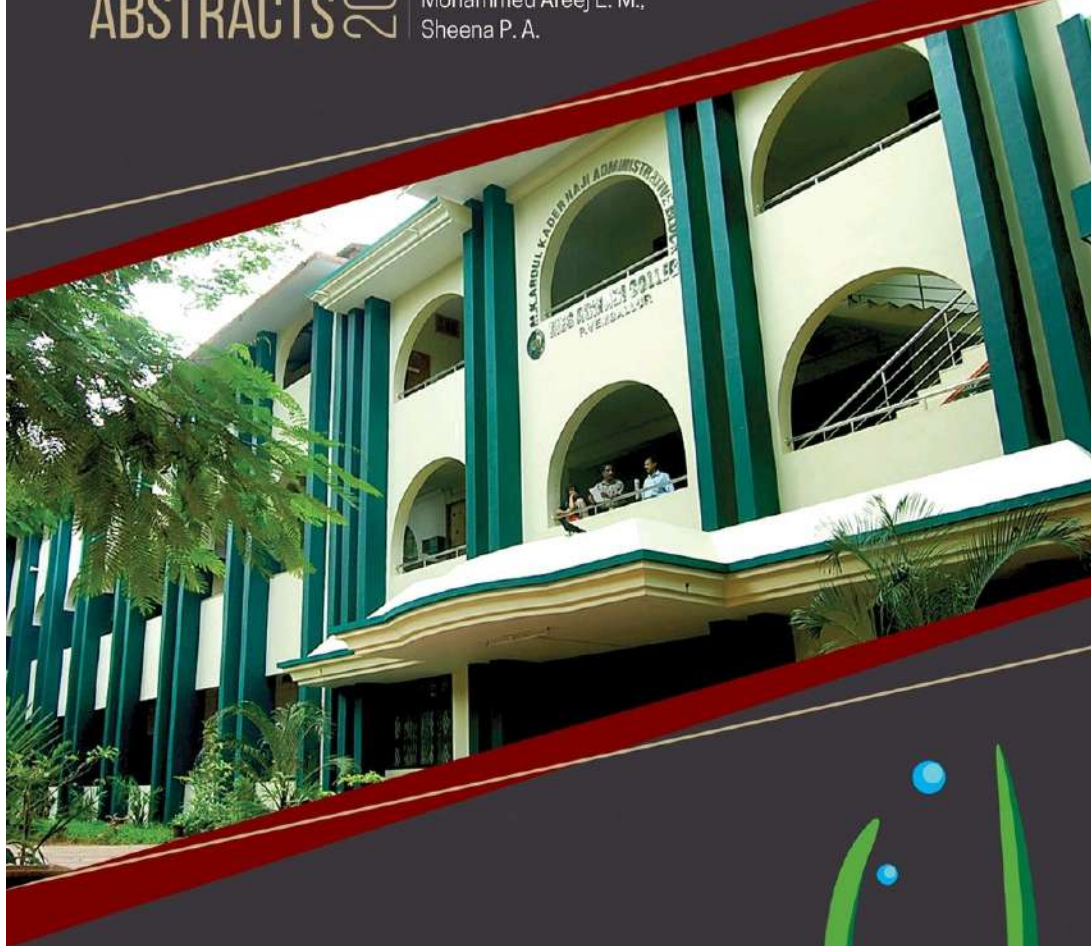
Jyothi V. & Bhavana C. B.

Research & PG Dept. of Zoology, Union Christian College, Aluva, Kerala, India.

Ethology is the one of the major fields of research which has made various contributions to ecology. Crickets have been used as a model system in the behavioural studies due to its interesting behaviours like aggression, mate choices etc. Nymphs and adults of *Acheta domesticus* collected from Kalady region of Ernakulam District were used for this study. The crickets were acclimatized and reared in glass tanks, fed regularly and provided with water. The exploratory behaviour in a new environment, general activity in a new environment, aggressive behavioural difference between the wild and captive populations of male adult crickets, effect of starvation on the fight success in male crickets were studied. The latency to emerge into a new environment and the latency to touch the new environment were recorded. The nymphs showed lesser latency period than the adults. The lesser latency to emerge into a novel environment might be because of the domestication syndrome and a chance of developing boldness syndrome, the willingness to take risk in a novel area to explore. The study showed that captivity can change the personality traits in *Acheta domesticus*. The observation of general activity showed that nymphs were more active than the adults in walking and climbing. The reared *Acheta domesticus* were found to be more aggressive than the wild population. This may be due to the fact that the crickets which are captivity reared were subjected to interspecific competition due to high population density in the rearing conditions. The crickets, relatively equally sized, were subjected to three starvation conditions as less, equal and more based on the duration of attacker's starvation. It was found that probability of winning the fight by the attacker increased by the increase in the starvation period. Thus, starvation has a positive correlation in winning the fight.

NCIATRI ABSTRACTS

Editors: Ansar E. B., Dhanya P. R., Jisha K. C.,
Kesavan K., Lathif Penath,
Mohammed Areej E. M.,
Sheena P. A.



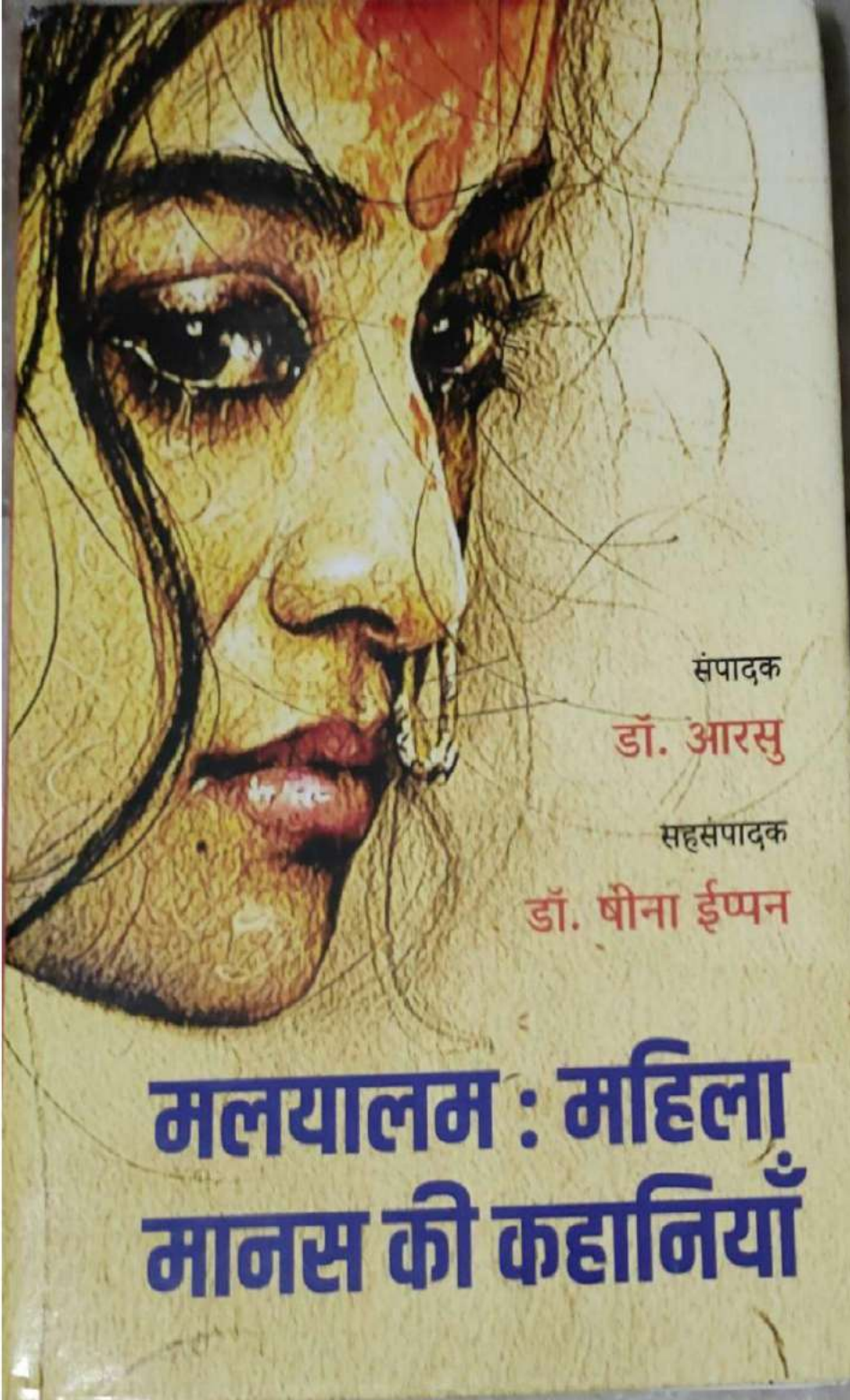
MES ASMABI COLLEGE
P. VEMBALLUR

Published by:
MES Asmabi College

(Govt. Aided, Affiliated to University of Calicut, Recognized by UCC,
Minority Institution Certified by National Minority Education Commission)
Re-accredited by NAAC with B++ grade
P. Vemballur P.O., Kodungallur, Thrissur Dist., Kerala, Pin - 680 671.
Ph : 0480-2850596
e-mail: principal.mesasmabi@gmail.com
website: www.mesasmabicollege.edu.in

MRP : ₹300/-
ISBN: 978-93-5813-509-1





ले 27 जूनी को दिल्ली बिल्कुल समान है वाली उक्ति को रेखांकित करने से वे कहानियाँ स्वयं बिकली है। बाह्य, ईसाई, इस्लाम, आदिवासी सभी वर्ग, धर्म, जाति की भेदों को सघनरूप लेखिकाओं की कलम से निरस्त होने लगी, मलयालम साहित्य में अभिविक्त बदलाव भी नजर आने लगे।

मलयालम महिला मानस की कहानियाँ भाषा समन्वय वेदी का एक सफल प्रयास है। अनुवाद के माध्यम से भारतीय भाषाओं को आपस में मिलाने का काम भाषा समन्वय वेदी की ओर से अग्रदृष्ट सम्माननीय डॉ. आरसु जी के नेतृत्व में लाली से अती है। कथामय से लेकर कन्याकुमारी तक फैले हमारे देश की भाषाई विविधताओं में एकता लाने का प्रयास वेदी ने अपने कंधों पर ले लिया है। मलयालम महिला मानस की कहानियाँ नामक यह चयनिका इसका ज्वलंत उदाहरण है। इन तमक कहानियों से गुजरते वक्त मलयालम की महिला कहानियों का एक सारक हमें मिलेगा। नारी आरण के लिए आवाज उठाने वाली, पुरुष वर्चस्व के विरुद्ध खड़े वाली प्रारंभ कालीन लेखिकाओं को निकट से जानने का जो मौका प्राप्त हुआ, इसको मैं परम सौभाग्य मानती हूँ। डॉ० आरसु जी मेरे आदरणीय गुरुवर्य हैं। आप ने ही मुझे यह दायित्व सौंपा था। आपके प्रति मैं हृदय से आभारी हूँ।

दक्षिण भारत की अन्य भाषाओं से भी इस प्रकार लेखिकाओं की चयनिकाएं प्रकाशित होने से हिन्दी पाठकों को भारतीय महिला लेखन की एक स्पष्ट छवि मिल जाएगी। हिन्दी प्रदेश के पाठक खुले मन से मलयालम चयनिका को स्वीकार करते, इस आशा के साथ।

मलयालम

(8) मलयालम : महिला मानस की कहानियाँ

अनुक्रम

अनुवाचक सांस्कृतिक एकता के संतरी (संपादकीय) / डॉ. आरसु-	04
सह संपादक की कलम से / डॉ. पीना ईयन-	07
सत्य का विनय स्वर/ललितारिका अन्तर्जन्म से बातचीत (टी.एन. जयवंदन)-11	
साहित्य सार्वजनिक दावत नहीं / माधवीकुट्टी से बातचीत (शिवु पणमुक्कम)-21	
विद्रोही दुर्गा / ललितारिका अन्तर्जन्म (अनु- डॉ. पी.एम. शाता)-	29
आत्महत्या / राजलक्ष्मी (अनु डॉ. एन. गिरिजा)-	40
मौ / माधवीकुट्टी (अनु- डॉ. पीना ईयन)-	44
ऑनमेरी की शायी / सारा जॉसफ (अनु- अनिता सी.)-	48
बांसुरी / पी.वल्सला (अनु- डॉ. सुप्रिया- पी.)-	53
नापाक जलम / प्रेसी (अनु- डॉ. राधामणी पी.के.)-	57
विदाई / सारा थॉमस (अनु- राजेश.के.)-	61
तोहफा / पी.आर. श्यामला (अनु- डॉ. सुधा बोस)-	67
अनामिका / एम.डॉ. राधिका (अनु- डॉ.ओ. वासवन)-	75
भलाई-बुराई / के.वी. श्रीदेवी (अनु- पीवा सी.पी.)-	79
हम जिंदगियाँ सेकने वाले / (खदीजा मुताज, अनु- बीना.के. नायर)	85
शिवेन सहनतनम् / अषिता (अनु- डॉ. जे. अंबिका देवी)-	94
यादों की नस / (के.आर. मीरा अनु- डॉ. अनीष सिरियका)-	98
काँच की चूड़ियाँ / प्रिया ए.एस. (अनु- डॉ. प्रमोद कोव्वरत)-	105
बच्चा जो रोया नहीं / के.पी. सुधीरा (अनु- डॉ. प्रीता एम.के.)-	110
लेखिका के मरणोपरान्त / रेखा.के. (अनु- डॉ. आरसु)-	115
पत्नी का पागलपन / बी. एम. सुहरा (अनु- डॉ. आरसु)-	122
पहचान / सितारा. एस. (अनु- डॉ. मेघा. ए.आर.)-	126
फिर बूँदा-बौंदी / आशा.के. (अनु- डॉ. रंजित. एम.)-	131
काली बिल्ली / पी.टी. राजलक्ष्मी/अनु- डॉ. आशीवाणी के उपसु-	134
सागरनुमा आकाश / तनूजा एस भट्टतिरि (अनु- डॉ. मारग्रेट वी.जो.)-	137
अनुवादकों के संपर्क सूत्र-	142

इस पुस्तक के सर्वाधिकार सुरक्षित हैं। संपादक एवं प्रकाशक की लिखित अनुमति के बिना इसके किसी भी अंश की फोटोकॉपी एवं रिकॉर्डिंग सहित इलेक्ट्रॉनिक अथवा मशीनी, किसी भी माध्यम से अथवा ज्ञान के संग्रहण एवं पुनर्प्रयोग की प्रणाली द्वारा, किसी भी रूप में, पुनरुत्पादित अथवा संचार प्रसारित नहीं किया जा सकता।

पुस्तक	:	मलयालम : महिला मानस की कहानियाँ
संपादक	:	डॉ. आरसु
सहसंपादक	:	डॉ. शीना ईप्पन
आई.एस.बी.एन.	:	978-93-95107-39-6
संस्करण	:	प्रथम, सन् 2023
©	:	संपादक
मूल्य	:	350.00 मात्र
प्रकाशक	:	अमन प्रकाशन
मो-	:	104-ए /80 सी, रामबाग, कानपुर-208 012 (उ-प्र-)
फोन	:	09839218516, 9044344050
शब्द सज्जा	:	0512-3590496 (ऑफिस)
मुद्रक	:	अमन ग्राफिक्स, रामबाग, कानपुर
	:	आर. बी. ऑफसेट प्रिंटर्स, नौबस्ता, कानपुर

MALYALAM : MAHILA MANAS KI KAHANIYAN

Edited by : Dr. Arsu, Dr. Sheena Eappen

Price : Three Hundred Fifty Only

मूल : आशा. के
अनु. डॉ. रंजित. एम.

फिर बूढ़ा-बाँदी

उसने पर्दे के पीछे से देखा, नाटक खत्म होते ही सब लोग हॉल से वापस जा रहे थे। अब उसकी जान में जान आई। इतनी देर कैसे गुजरी... सोचा भी नहीं जा सकता। पद के पाठ ही खड़ा देख रहा था कि कोई शोर तो नहीं मचा रहा, एकटक... जिंदगी में पहली बार।

उसे लगा कि आँखें मूंदे जा रही हैं। दो तीन दिनों की नींद बाकी है। स्मिर दुख रहा है। ठंडे पानी से मुँह धोया... धोड़ी तसल्ली हुई। फिर भी नींद नहीं छूटी।

हॉल लगभग खाली हो चुका था। सभी अभिनेता अपने सामान बीध रहे थे। मंच के एक ओर से वेणु सर आ रहे थे। उसने आशा के साथ सर के चेहरे की ओर ताका।

“नाटक बहुत अच्छा रहा। इतना मैंने नहीं सोचा था। हरी का भविष्य उज्वल होगा।”

सर बोलते जा रहे थे... नाटक की कमियों, कॉलेज में एक नाटक क्लब होने की जरूरत आदि के बारे में। सर ऐसे ही बातूनी ढंग के आदमी हैं। उन बातों से उसे कोई मतलब नहीं है, तो भी वह नापसंदी नहीं दिखाता था। सर से कुछ कहने का साहस नहीं था, उसमें।

वह सोचता था कि इस एक महीने में वह सर के कितना करीब आ गया है। अकेलेपन से दम घुट रहा था तभी सर की यही बदली हुई। तब तक कहने लायक कोई दोस्त उसका नहीं था। वह अपनी निजी जिंदगी में किसी और को दखल देने नहीं देता था।

वापस जाते वक्त सर मुड़कर कहा, “शाम को कमरे में आना, कुछ किताब दे दूँगा।”

उसने हामी भरी। सर के दूर निकलने तक वह देखता रहा। धूप उतर रही थी। सब लोग जा चुके थे। कमर का छत से कबूतर शोर मचाते हुए उड़ गए।

मलयालम : महिला मानस की कहानियाँ / (131)

डॉ. आरसु



पूरा नाम : आर. सुन्दन

जन्म : 1950, कालिकट (केरल)।

शिक्षा : एच.ए., पीएच.डी. हिंदी कालिकट विश्वविद्यालय, केरल से।

लैंगिक : स्वातंत्र्योत्तर हिंदी उपन्यास पर विदेशी संस्कृति का प्रभाव।

आजोपन : पुरस्कृत साहित्यकार 1977-1984, सरकारी कॉलेज, कालिकट, 1995-2011, कालिकट विश्वविद्यालय, 1998 में प्रोफेसर, 2008-2010 आचार्य और अध्यक्ष, 2012-2015 तक केन्द्रीय विश्वविद्यालय केरल में।

साहित्य सेवा : 70 कृतियाँ (हिन्दी और मलयालम), 10 हिन्दी पत्रिकाओं के मलयालम विरोधांक का अतिरिक्त संपादक, पत्रिकाओं में 400 लेख प्रकाशित, भारत के 30 विश्वविद्यालयों में व्याख्यान, जापान और आस्ट्रेलिया के विश्वविद्यालयों में व्याख्यान।

प्रमुख हिन्दी कृतियाँ : अनुवाद : कुछ नमूने कुछ पैमाने आधुनिक वातायन से, साहित्यानुवाद : संवाद और संवेदना, अनुवाद : अनुभव और अवदान, एक अनुवादक का अलम्ब, स्वातंत्र्योत्तर हिन्दी उपन्यास, हिन्दी साहित्य : सरोकार और साक्षात्कार, हिन्दी का मैदान विशाल है, मलयालम के महान कथाकार, मलयालम साहित्य : परस और पहचान, केरल : कला, साहित्य और संस्कृति, भारतीय साहित्य : आशा और आस्था, भारतीय भाषाओं के पुरस्कृत साहित्यकार, भारतीय साहित्य का भाव संसार, महात्मा गांधी - साहित्यकारों की दृष्टि में, हिन्दी साहित्य को दक्षिण भारत की दक्षिणा।

सम्मान-पुरस्कार : भारत सरकार, उत्तर प्रदेश, बिहार आदि प्रदेशों की अनेक प्रतिष्ठित संस्थाओं के राष्ट्रीय पुरस्कारों से सम्मानित। जापान के चार विश्व विद्यालयों में भारतीय साहित्य पर व्याख्यान (2002), विश्वभारती हिन्दी पुरस्कार।

संप्रति : विजिटिंग प्रोफेसर, गांधी अध्ययन केंद्र, कालिकट विश्वविद्यालय, केरल।

संपर्क : साकेत, पोस्ट-चेलेन्द्रा, जिला - मलप्पुरम, केरल - 673634।

दूरभाष : 0494-2402021, 9847762021

ईमेल : arsusaketh@yahoo.com

अमन
प्रकाशन

104-ए/80 सी, रामबाग, कानपुर-208012 (उ.प्र.)

मो.नं. : 8090453647, 9839218516

फ़ोन : 0512-3590496

ईमेल : amanprakashanknp@gmail.com

वेबसाइट : www.amanprakashan.com

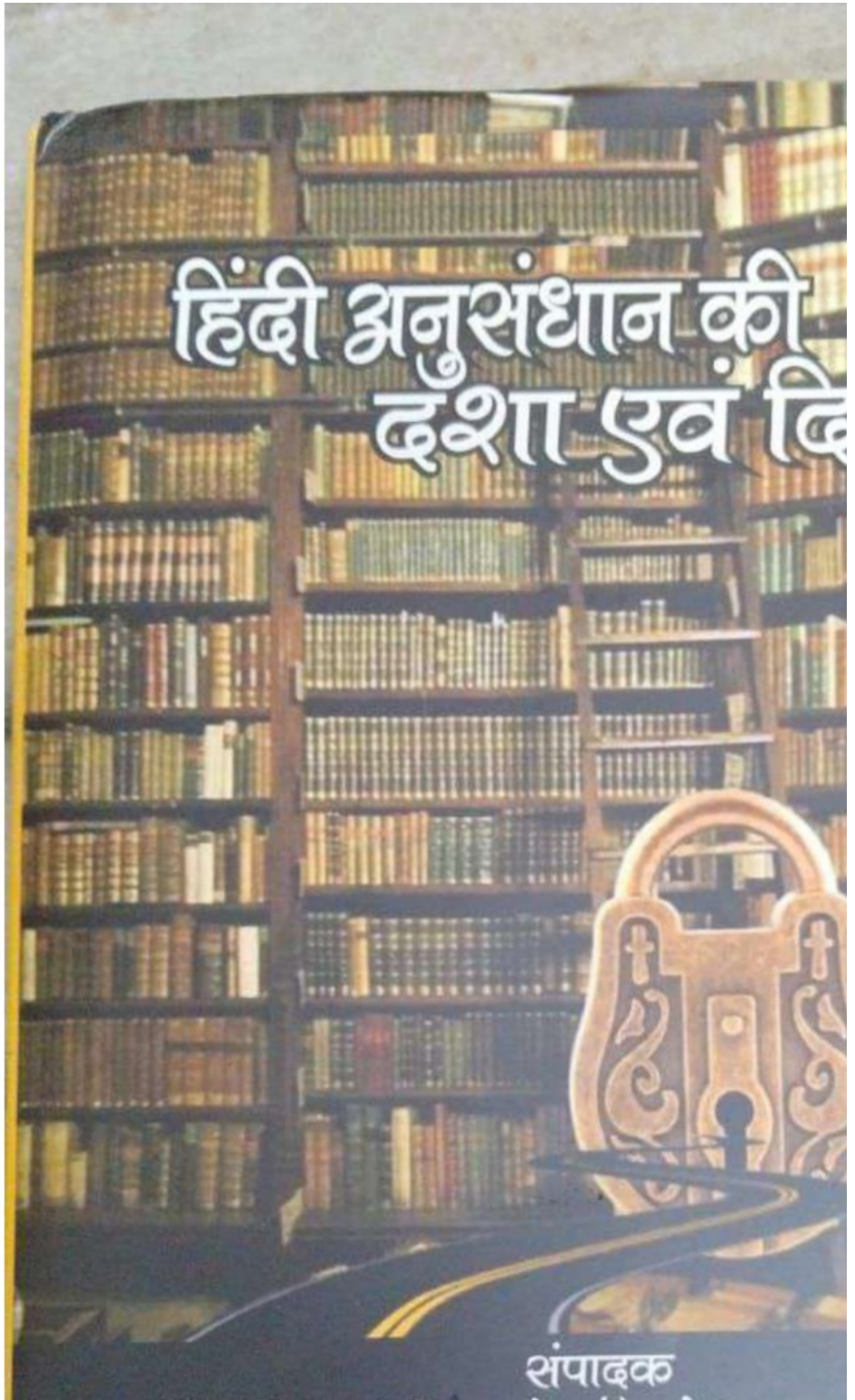
₹ 350/-

ISBN : 978-93-95107-39-6



9 789395 107396 >

कठकती संसार



प्रकाशक

हंस प्रकाशन

(पब्लिशर्स एण्ड डिस्ट्रीब्यूटर्स)

बी-336/1, गली नं. 3, दूसरा पुस्ता

सोनिया विहार, नई दिल्ली, 110094

दूरभाष : 9868561340, 7217610640

email : hansprakashan56@gmail.com

website : www.hansprakashan.com

विक्रय कार्यालय

4637/20, हरि सदनए 217, द्वितीय तल

अंसारी रोड, दरियागंज

नई दिल्ली, 110002

दूरभाष : 011-45647564, 7217610640

आवरण पृष्ठ : दीनानाथ पाटिल

प्रथम संस्करण : 2023

ISBN : 978-81-965778-0-3

© : डॉ. मोनिका देवी

मूल्य : 495/-

मुद्रक : एस. के. ऑफसेट, दिल्ली

Hindi Anusandhan ki dashaAvam Disha : Editor

अनुक्रम

	भूमिका	5
1.	हिन्दी अनुसंधान कार्य दशा व दिशा डॉ. बलराम गुप्ता	9
2.	सामाजिक अनुसंधान की तुलनात्मक पद्धति शेख अफरोज	14
3.	कविता में शोध के विविध आयाम कुलदीप शर्मा	20
4.	हिन्दी अनुसन्धान की दशा व दिशा चंद्रप्रभा	28
5.	सूचना प्रौद्योगिकी एवं प्रयोजनमूलक हिंदी के संदर्भ में हिंदी शोध की दिशा एवं दशा डॉ. रंजीत कुमार	35
6.	आधुनिक हिंदी शोध एवं अनुसंधान के विकास डॉ. सुनीता साह	48
7.	हिन्दी साहित्यिक अनुसंधान : स्वरूप और प्रविधि प्रो., डॉ. महेशकुमार जै. वाघेला	59
8.	तुलनात्मक साहित्यिक अनुसंधान : स्वरूप और प्रविधि प्रो. डॉ. नीलम ए. सेन	71
9.	मलयालम भाषियों का हिंदी अनुसंधान एक विहंगम अवलोकन डॉ. रंजित.एम्	78
10.	अनुसंधान की परिभाषा एवं स्वरूप डॉ. एस. बी. पाटिल	84
11.	शोध में विषय प्रवेश की भूमिका डॉ. मोनिका देवी	87
12.	शोध और आलोचना नमित कुमार शर्मा	90



डॉ. मोनिका देवी

जन्म : कादरगढ़, जिला शामली (उत्तर प्रदेश)

शिक्षा: प्रारंभिक शिक्षा ग्रामीण विद्यालय में, स्नातक और स्नातकोत्तर शिक्षा मेरठ के चौधरी चरण सिंह विश्वविद्यालय से, दक्षिण भारत हिंदी प्रचार सभा मद्रास से एम.फिल्. और उस्मानिया विश्वविद्यालय हैदराबाद से हिंदी साहित्य में पी-एच.डी.। हैदराबाद के ही प्रख्यात स्वयत्त निजाम कॉलेज से अनुवाद अध्ययन में डिप्लोमा।

प्रकाशित पुस्तकें : 15 पुस्तकें, विदेश में राष्ट्रीय एवं अंतराष्ट्रीय संगोष्ठियों का आयोजन 20, 'अस्तित्व की तलाश में सिमरन' किन्नर जीवनीपरक उपन्यास है जिस पर पी-एच.डी. और एक एम. फिल्. शोध कार्य हो चुका है, देश विदेश से प्राप्त सम्मान 90 (संपादित पुस्तक)।



हंस प्रकाशन

Email : hansprakashan56@gmail.com

Website : www.hansprakashan.com

Phone : 011-45647564, 7217610640

मूल्य : 495/-

ISBN : 978-81-965778-0-3



9 789389 389791

आवरण पृष्ठ : दीनानाथ पाटिल