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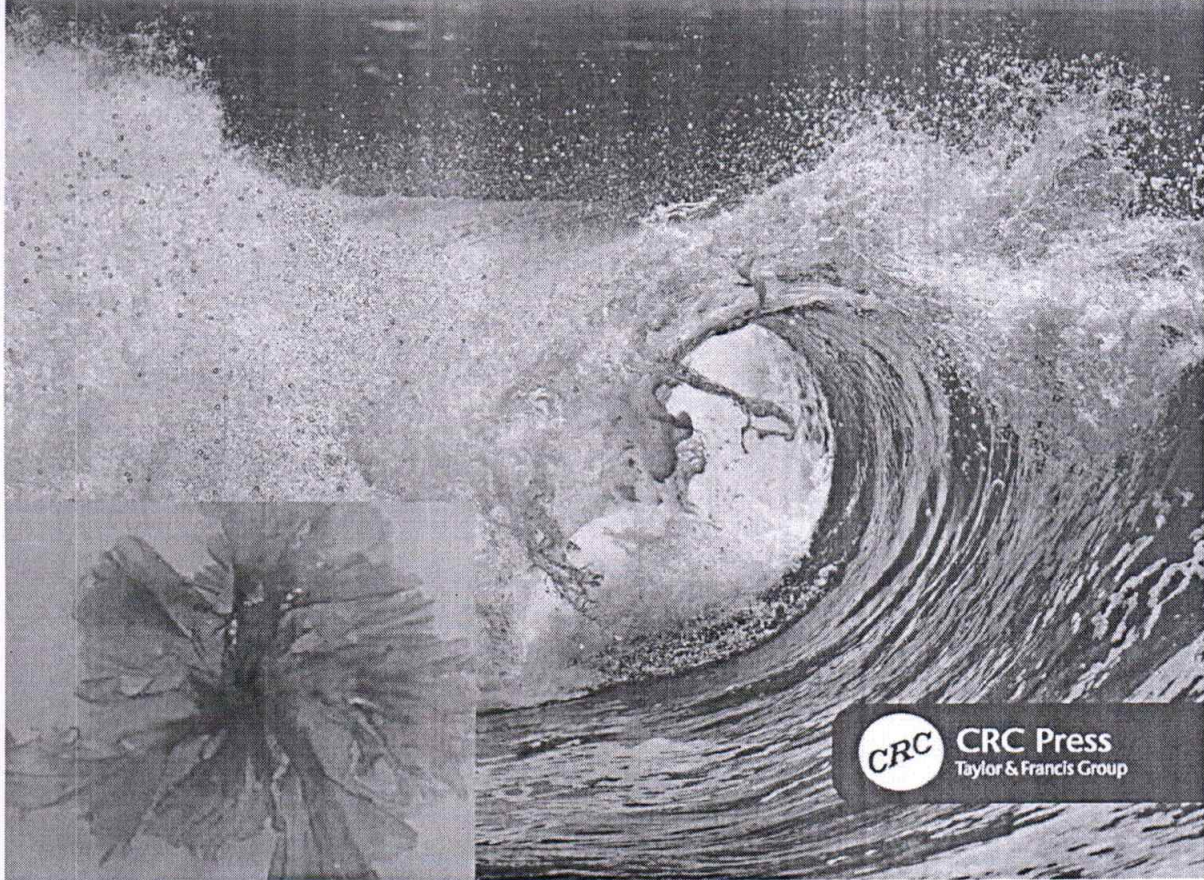


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# NEUROTRANSMITTERS IN PLANTS

Perspectives and Applications

EDITED BY  
Akula Ramakrishna  
Victoria V. Roshchina



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# 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

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### 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,  $\gamma$ -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,  $\beta$ -aminobutyric acid (BABA) a close structural relative of GABA, is a potent inducer of acquired disease resistant in plants. However, its occur-



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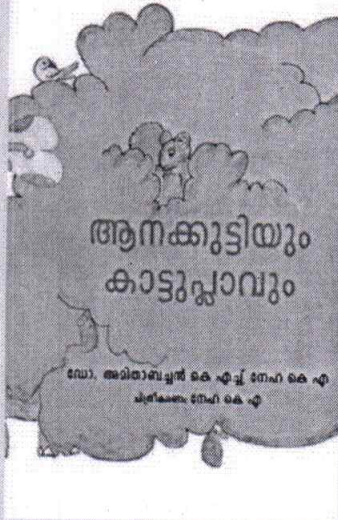




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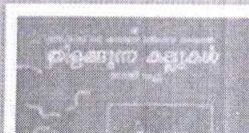
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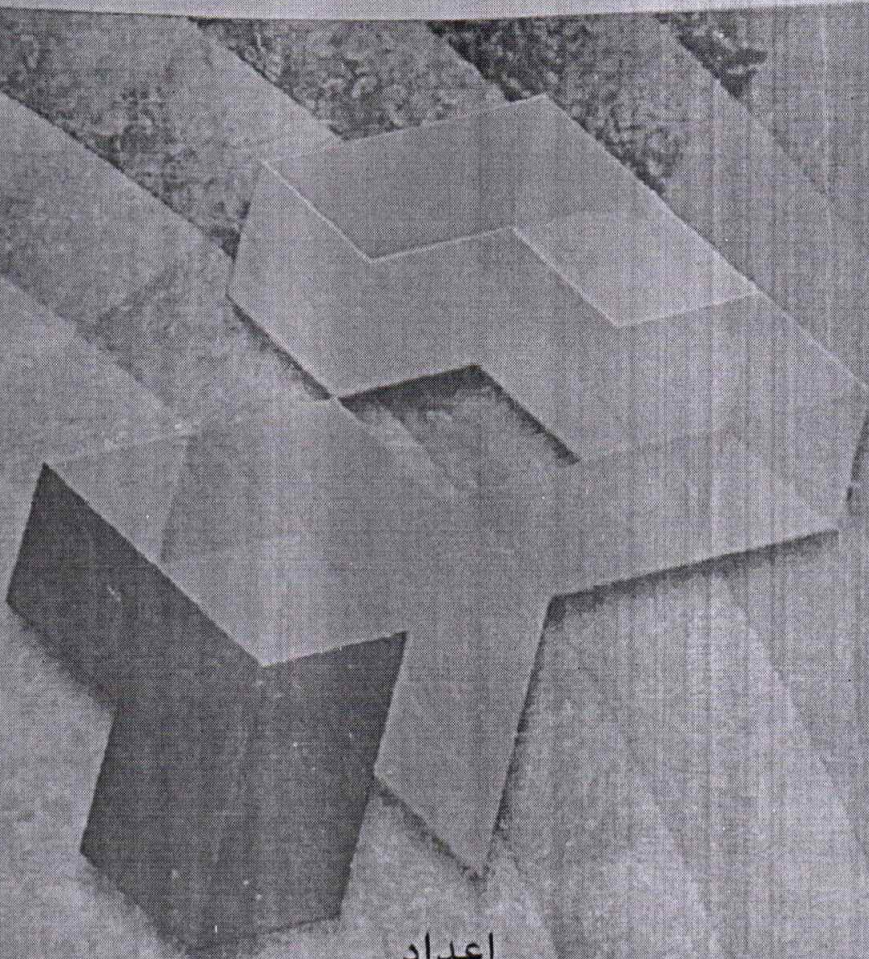
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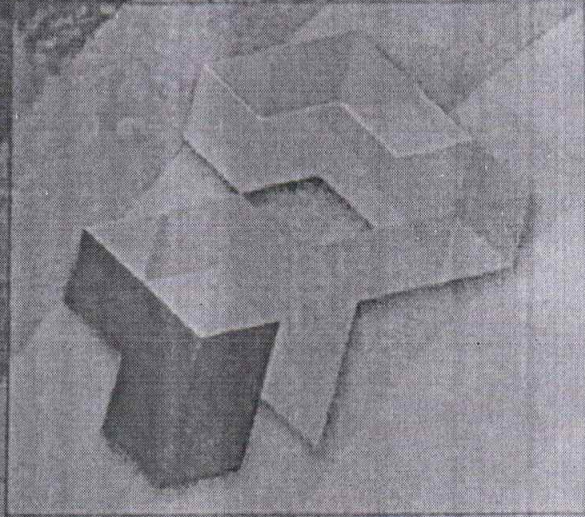
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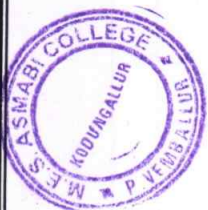


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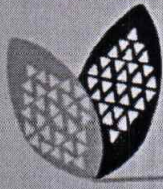
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السواحل المغربية. ولكنه أخذه الحزن والكآبة أثناء  
سفره حين جهل الطريق المختص إلى الهند فعاد بهم  
ملك مغرب ووكّلهم إلى قائد عربي اسمه شهاب الدين  
أحمد بن ماجد حتى أرشدهم إلى شبه القارة الهندية  
وإلى هي معروفة لدى العرب ومجهولة بالنسبة إلى  
الأوروبيين ٣.

سارت السفن تمخر أمواج البحر إلى الطرف  
غربية لدى الأوربيين وسارت للبحر أيامه وشهوره  
غير اطلاع على أي بر ولا أرض. وكانت الرياح تهب  
يشدهم ولكنها ما أوقدت نيران همتهم وعزمهم  
بعد أيام سقطت أنظارهم على قطعة من  
وبدت مرأى منهم أرض جميلة مليئة بأشجار نارنج  
بتاريخ ١٨ مايو. تهلت أسارير وجه علما وأصحاب  
ورقصوا وتحذثوا بأن هذه كالكون أرض الطب  
والفلفل والزنجيل وما إليها من الثروات المجدبة  
والأمتعة الثمينة.

مقدمة :

اتسعت حظيرة الاسلام الى شتى اجواء المعمورة . حين  
وصل نوره على سواحل أفريقيا وأوربا . ازداد العرب  
في هاتين القارتين عزًا وشرفًا وكان أساس تقدمهم  
الديني والتجاري متانتهم الاقتصادية . ومصدر هذه  
المائة الاقتصادية كان الطيب والفلفل المصدرين  
من كالكون . وقعت الدول الغربية في أشد دهشة  
وتعجب حينما شاهدوا ثروة العرب وانتشار الاسلام  
شرقًا وغربًا حتى اضطروا الى أن يلجؤا الى العرب  
للقضايا التجارية ونحوها . البرتغاليون وهم أول من  
نجروا لهذه المغامرة الهائلة بأن خرجوا الى شبه قارة  
الهند متوجهين نحو كالكون

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واسكودغاما « الى الهند تمهيد طريقة جديدة الى  
بلاد الهندية وتوسيع نطاق العلاقات التجارية  
مع الدول الشرقية . خرج غاما وأصحابه الى الهند

• •



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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.

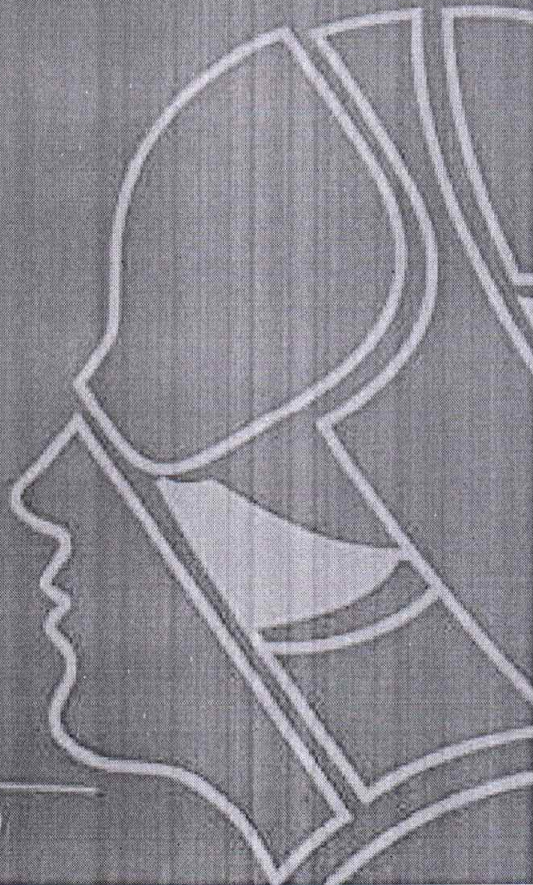


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41.

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

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Vemballur P.O, Thrissur, Kerala

### Abstract:

This paper is to examine the extent of child morbidity in the background of poverty in 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 extent 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 areas of two Panchayaths of Thrissur, Kerala, viz. Ettimal 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. Ettimal 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 of fishermen was seen for fever (40%) followed by Skin disorders (35%), heart diseases (3%). The study also found the presence of high illiteracy rate, lack of proper social services, long duration of fishing activity, lack of proper protection from sunlight and noise in heard 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 this population. Therefore, it is envisaged that, there is an urgent need to ascertain 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 of the earliest.

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



# भारतीय साहित्य में सिविल सैनिक संबंध

संपादक :

डॉ. रंजित एम., डॉ. सूर्या बोस





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डॉ. रजित एम., डॉ. सूर्या बोस

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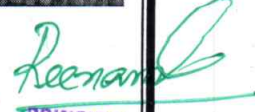
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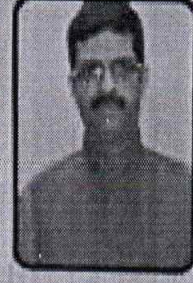
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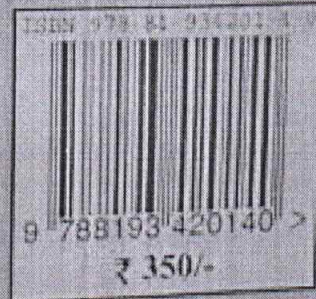
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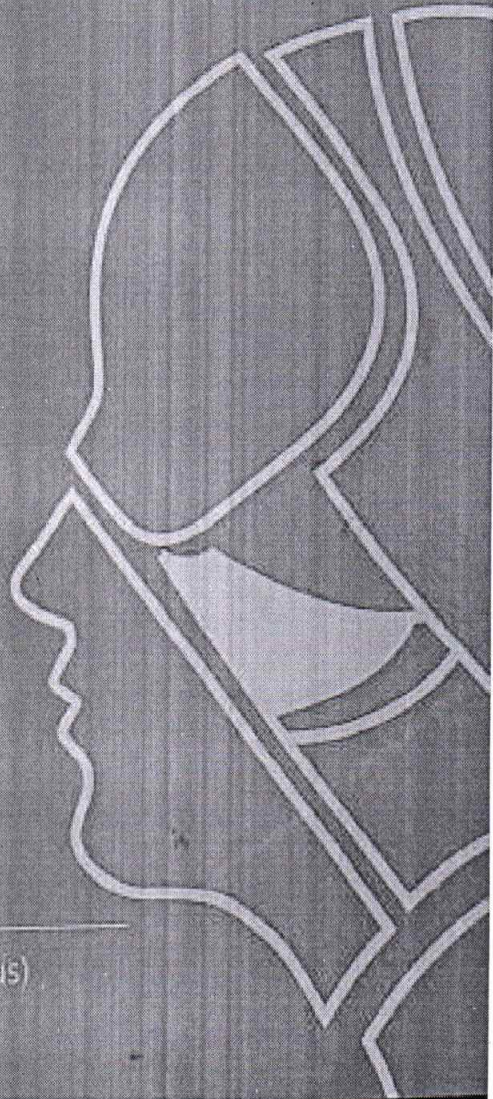


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## 23. Female-headed Households in Kerala

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Research Scholar  
Department of Economics

*Dr. KV Ramachandran*  
Department of Economics  
Dr. J. Jayalalitha Centre, Aranmula

### 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 relationships) 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 21<sup>st</sup> 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



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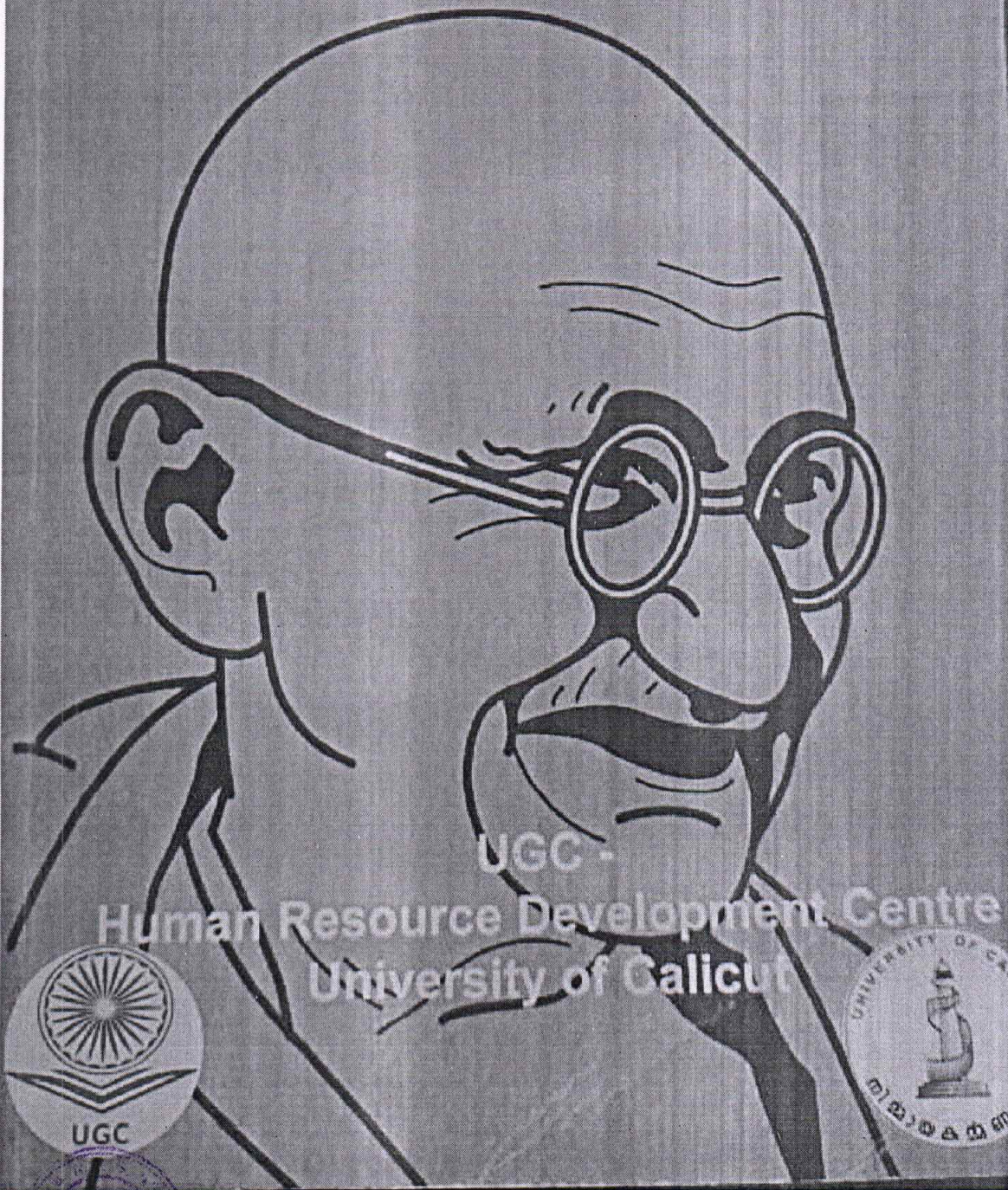
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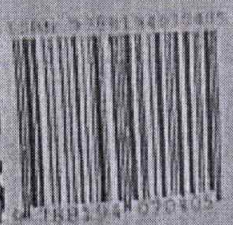
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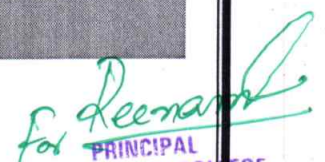
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# Leadership Style, An Analysis through Mahatma Gandhi

Chithra .P

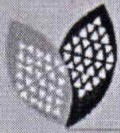
Assistant. Professor, P.G Department Of Commerce  
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## Introduction

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 expressess 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





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## PHYTOREMEDIATION POTENTIAL EVALUATION OF FOUR SELECTED AQUATIC MACROPHYTES

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

Assistant Professor

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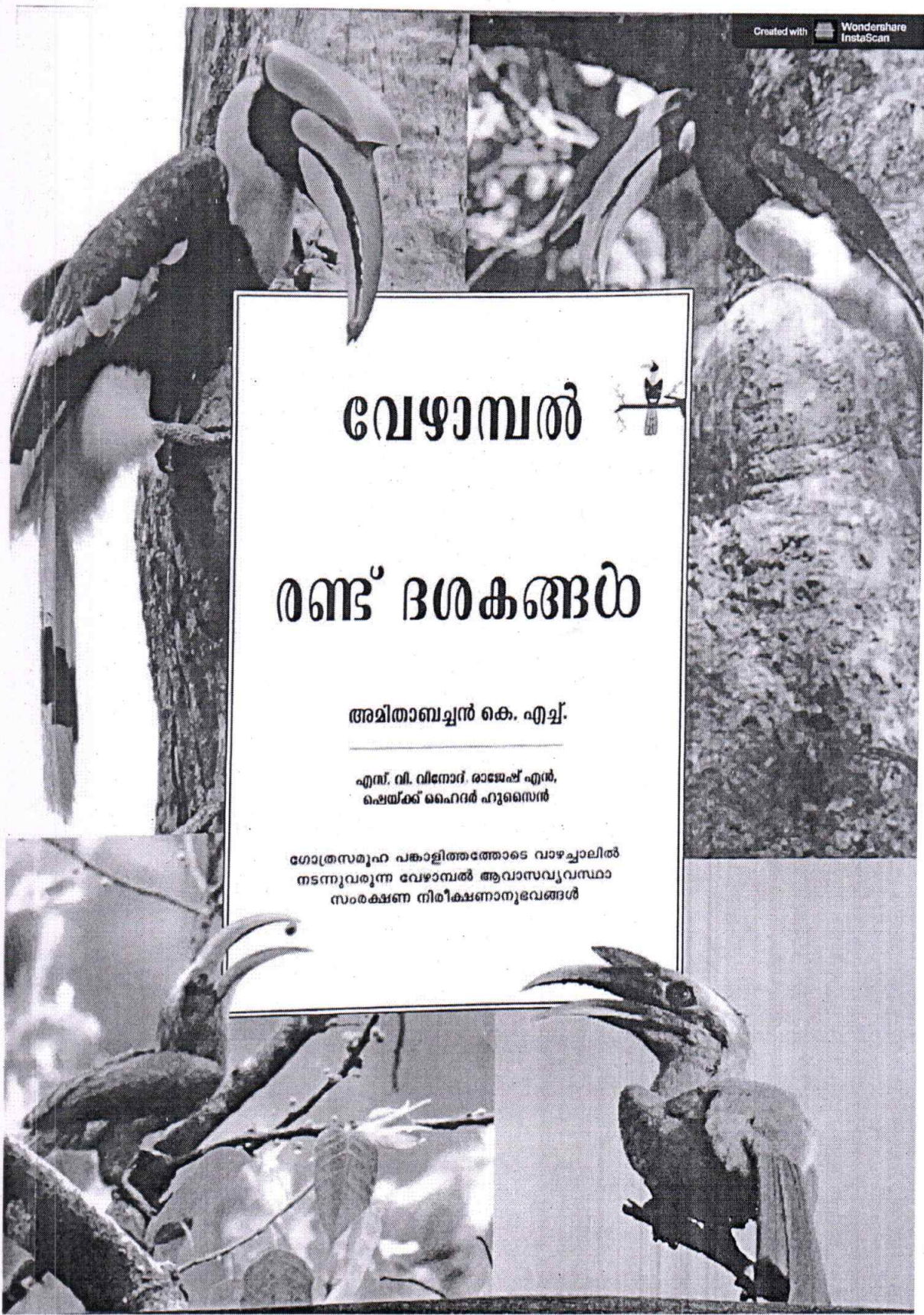
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**Abstract** Heavy metal pollution in the water bodies is a serious threat to the world. Phytoremediation is the better solution of this serious threat, since most of the conventional methods are less effective, time consuming and expensive when compare to phytoremediation technology. In the present research work the phytoremediation potential of four aquatic macrophytes (*Azolla pinnata* R.Br., *Lemma 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



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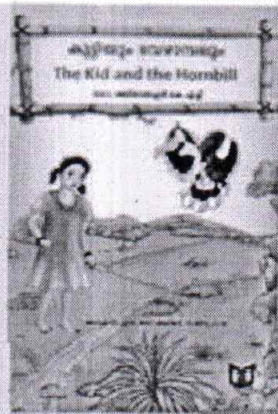


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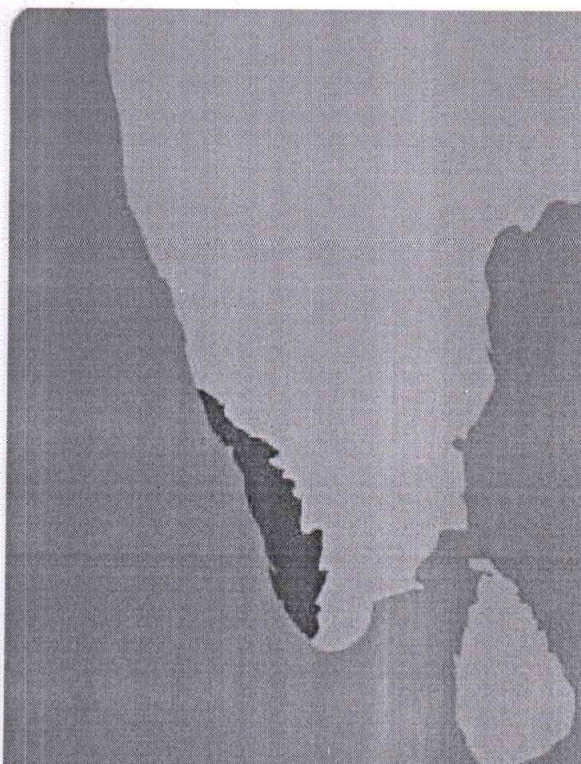
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The Historical Injustice to the  
Forest Dwelling Community  
Continued: The process,  
performance and major  
violations in the one decade  
of implementation of the  
Forest Rights Act 2006 in

# 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:  
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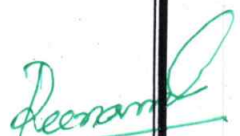
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## Historical Injustice to the Forest Dwelling Communities Continued

### 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  
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#### 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 grassroots 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.



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KODUNGALLUR - 680 671



**Al Arabiyya lil Muthaqaddimeen**

( Bcom / BBA First Semester Common Course Textbook)

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

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For *Sakeena*  
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## **Content:**

### **Module-1 :Conversations**

المقابلة An Interview

في المصرف In the Bank

فمن رغب عن سنتي فليس مني From Hadeeth

### **Module- 2: Stories**

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

العملية العملية

مع العلماء With Scholars

حبّ الأمّ The Love of Mother

شريح القاضي The Judge – Shuraih

### **Module- 3 : Drama**

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

Thaufeequl Hakeem

### **Module- 4 : Commercial Correspondence**

طلب للوظيفة Job Application

استعلام عن كتاب Enquiry about Book

طلب للكتب Order for Books

فاتورة Bill

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

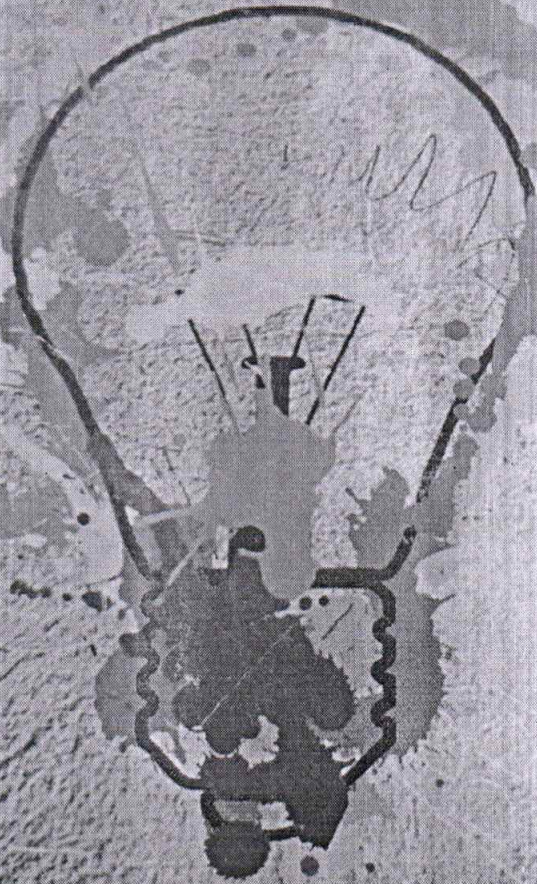
### 11. Request for books

### 12. Invoice



# ما أجمل اللغة!

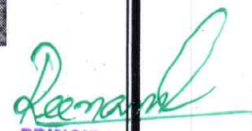
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Textbook for BA/BSc. Common Course, 1<sup>st</sup> Semester)



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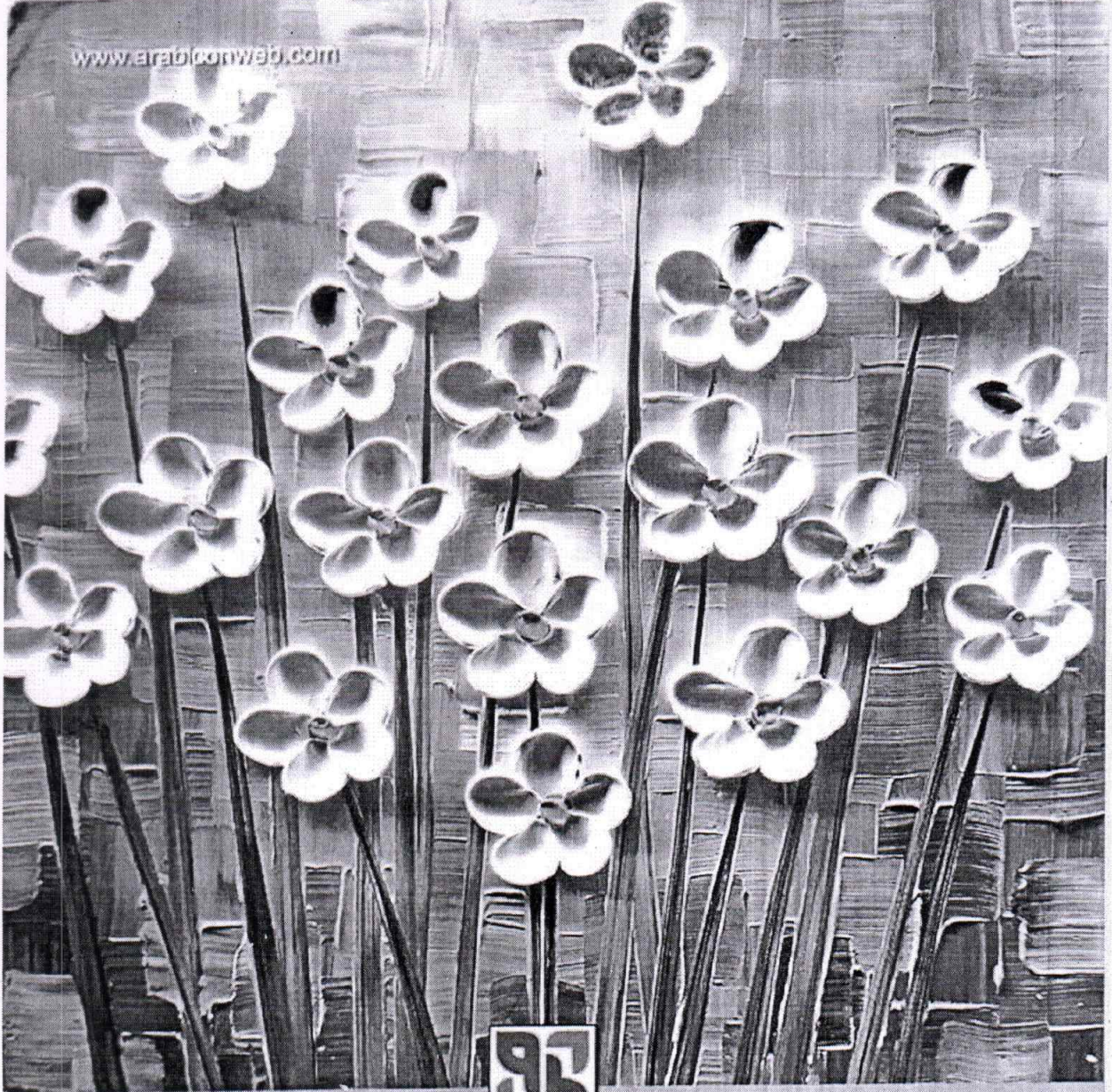
## PREFACE

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.



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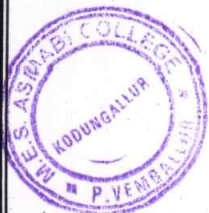
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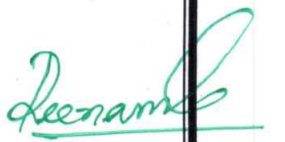
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It is a book named Min vahyil- adab ( Appreciating Arabic literature) which is a common course book for bachelor of arts and bachelor of science under the university of calicut. It is edited by Dr. Abdul Majeed T (Assistant professor, Farook college).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



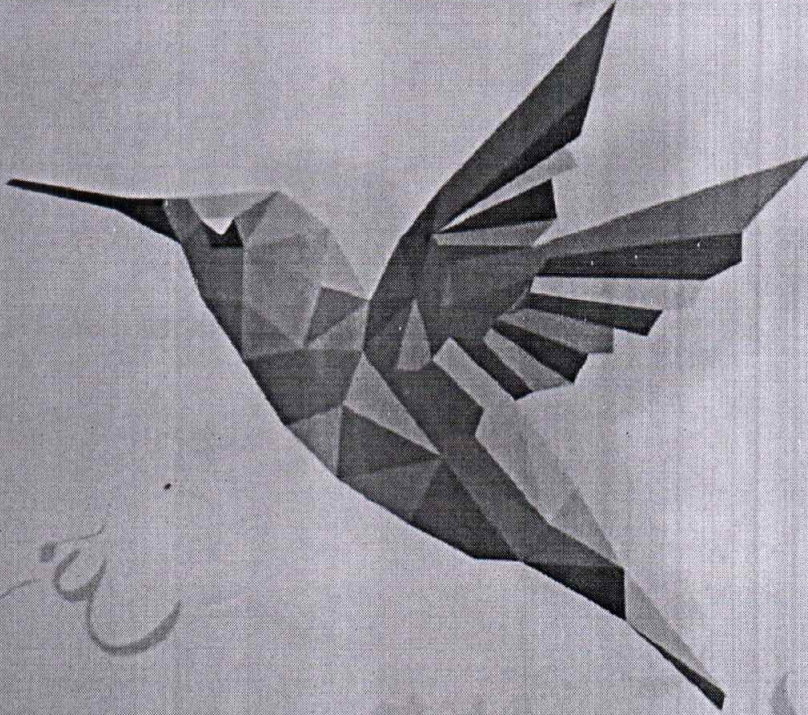
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د/ محمد حنيف

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قسم اللغة العربية بجامعة كاليكوت



READING

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This book is intended to be the text book for BSc.(LPP) Common course 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 practical conversations pertaining to diverse real life contexts. Each and every 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 in the pattern of a workbook keeping up the modern methodologies of language acquisition. The method followed here is of enabling students to learn the 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 that are being taught in colleges affiliated to Kannur and Calicut universities. Works penned or edited by Mohammed Haneefa are: *Abqariyyun*, *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 in various works during different tenures of his career in Kannur and Calicut and he has also been elected to the Faculty of Humanities and the Languages of University of Calicut.

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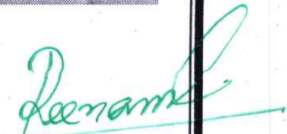
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## PREFACE

*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



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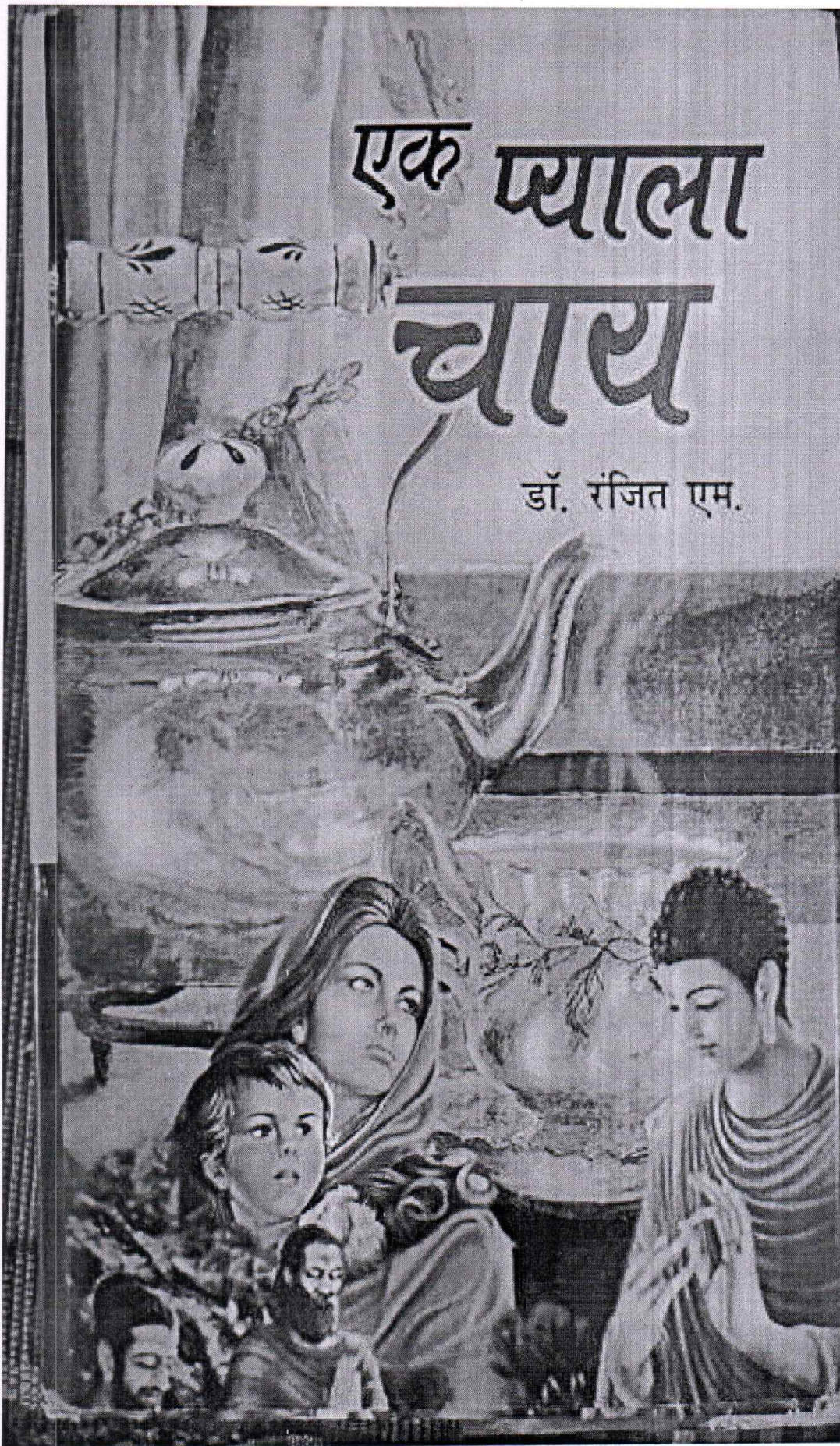
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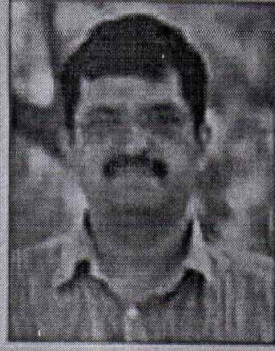
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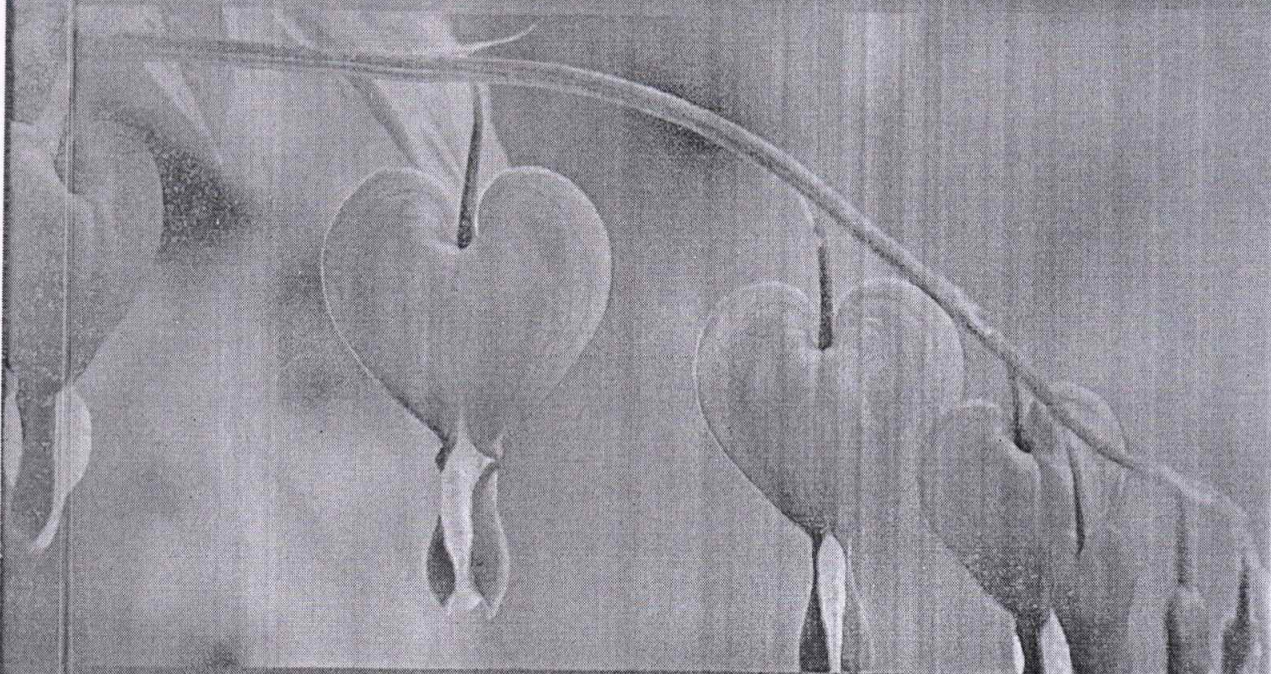
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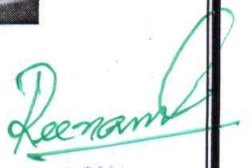
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### 1. From Quran

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. Preethan N.



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



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

Amitha Bachan K.H<sup>1</sup> and Pooja Suresh<sup>2</sup>

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

<sup>2</sup> 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- Malkkaparaipatue, 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).

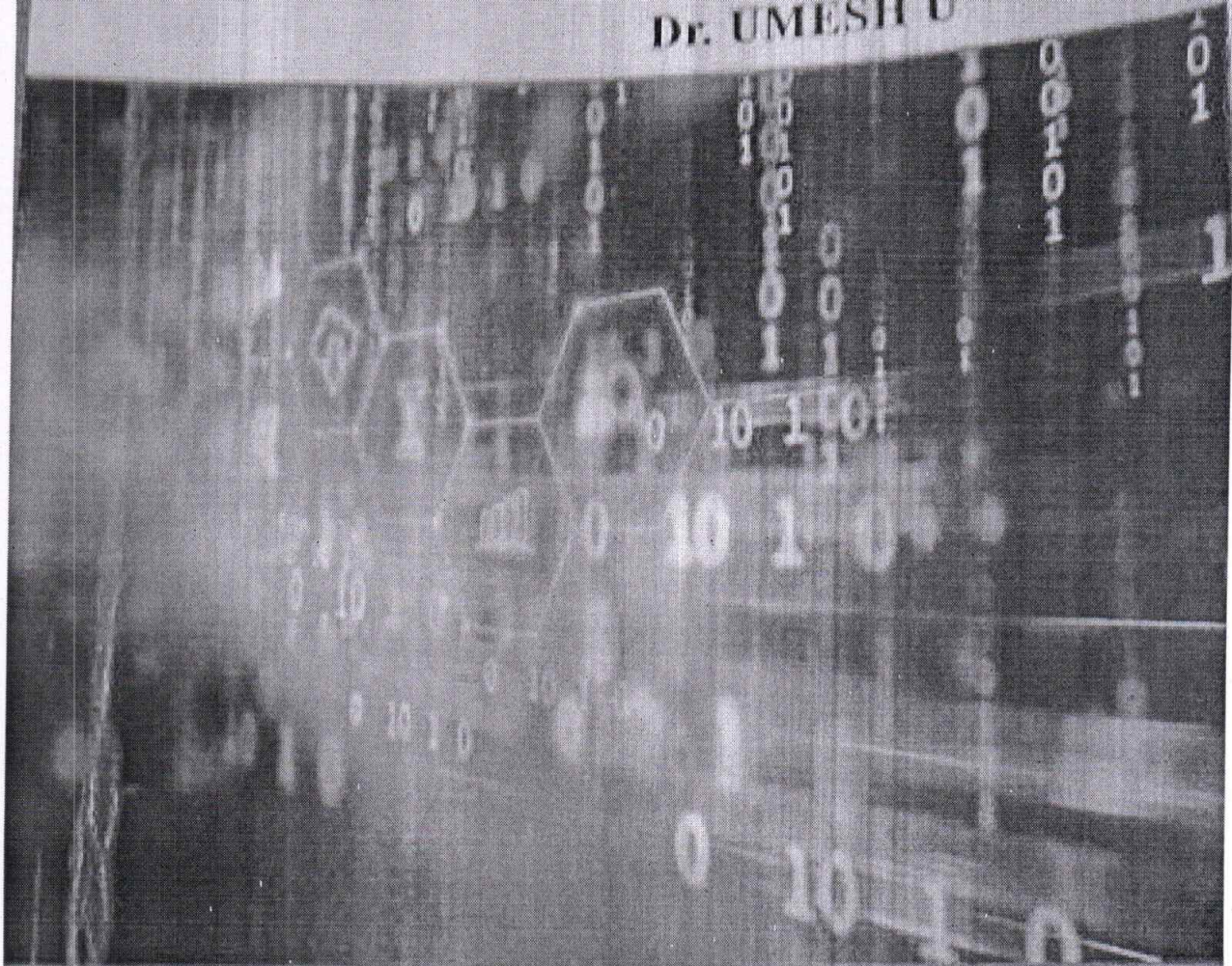
The catchment forests of Chalakkudy River within the Anamalais considered as one of the hottest hotspot (Nayar, 1996; Bawa et al., 2007) in terms of biodiversity with in the Western Ghats Sri Lanka biodiversity hotspot. The riparian forest along the river is very unique in its structure and floristic 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.





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

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## **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.

## **INTRODUCTION**

Cash is like blood in our human body, a basic necessity without which survival is a problem. As a whole, about 87% 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**



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# DOMESTIC VIOLENCE AGAINST WOMEN

Ms. Shiney C N

Ms. Hafsa 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.



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# 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

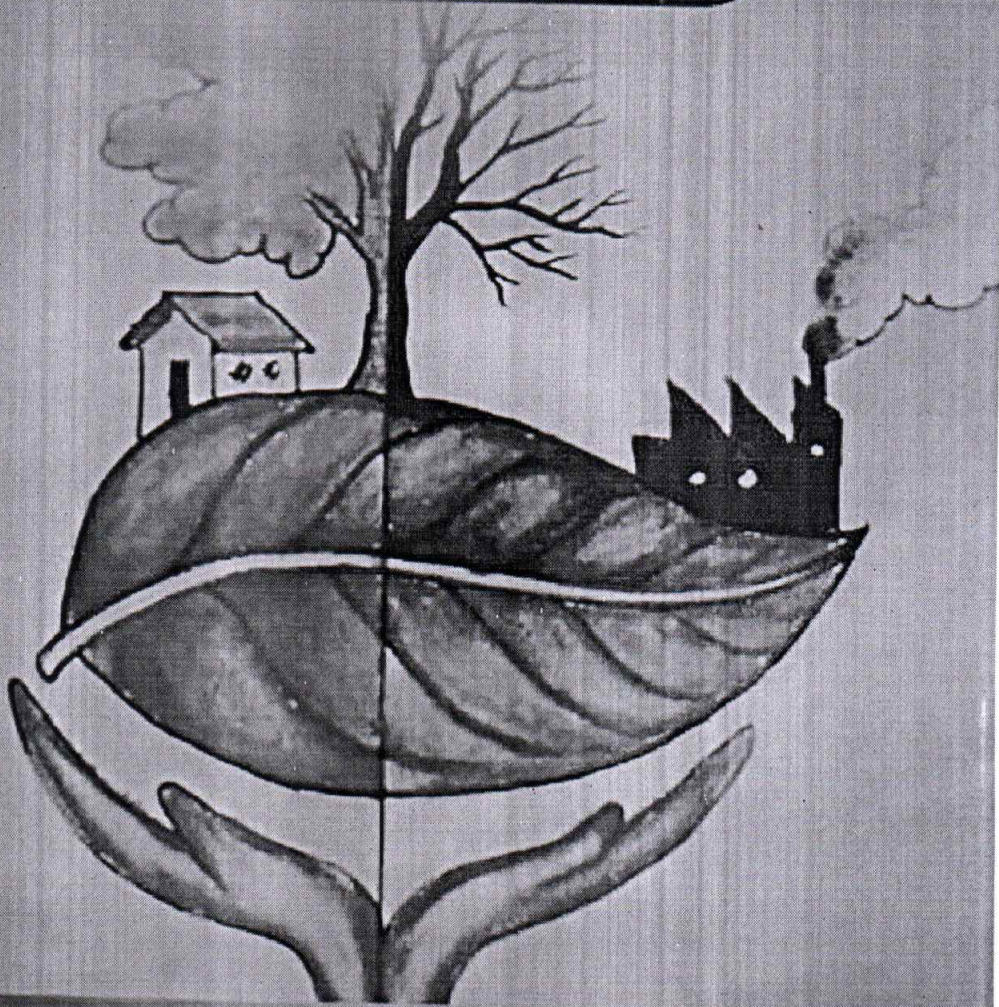
In recent years the usage of internet technologies has expanded and for most people the internet is a very present factor in everyday life. Internet has become a part of our children's daily activities at home and at school. The benefits of the Internet for children are huge and include education and 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



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डॉ. रंजित एम् • डॉ. सूर्या बोस



*For Keenan*

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संपादक

डॉ. रंजित एम् • डॉ. सूर्या बोस

जवाहर पुस्तकालय

हिन्दी पुस्तक प्रकाशक एवं वितरक

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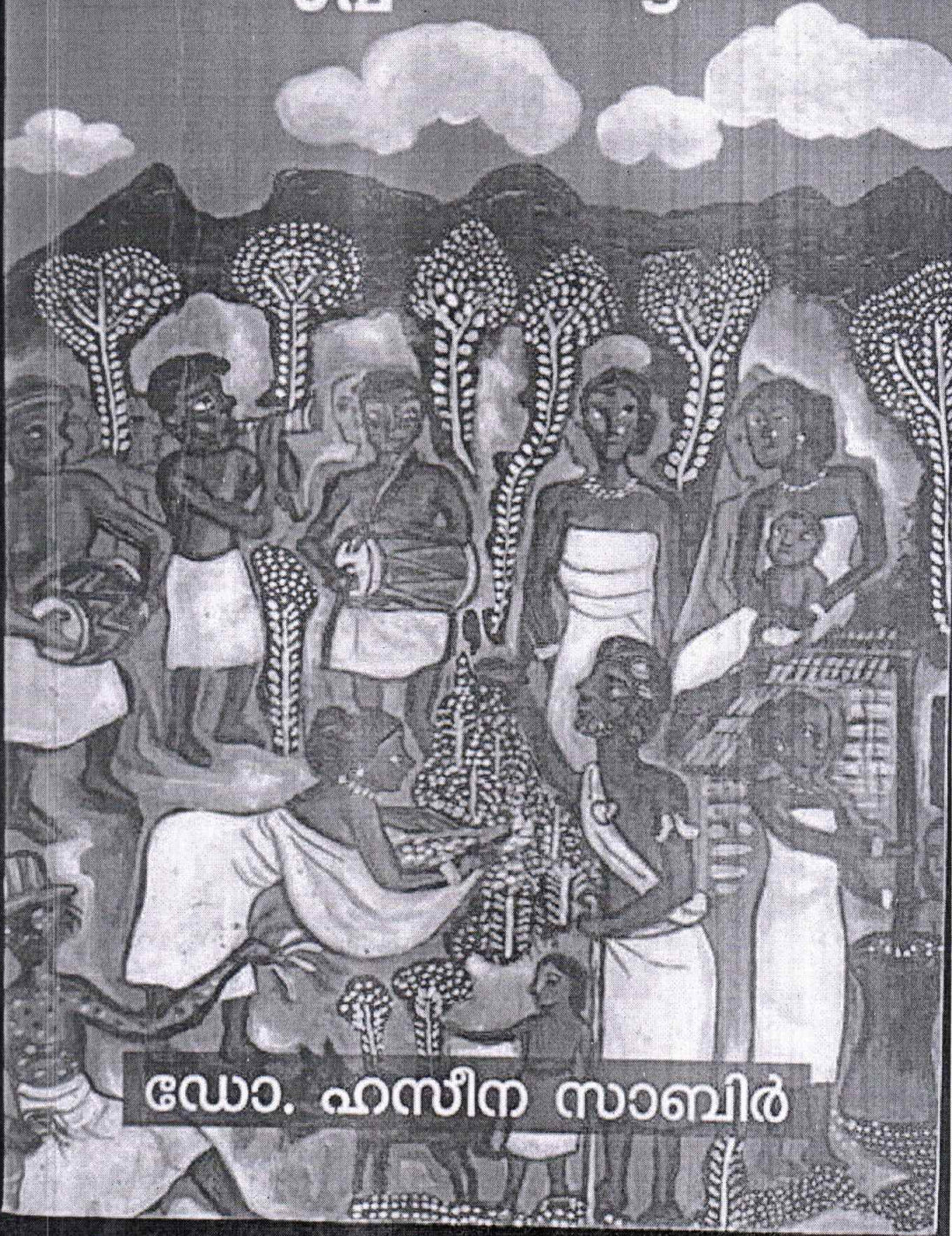
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## Tribal life in Attappady

This book refers to the life of tribals in Attappady. Attappady is the area located in Palakkad district. This is the first integrated tribal block in Kerala. There are three tribal communities in Attappady. Irula, Muduga and Kurumba. This book entirely carries a true description about the history of the three tribal communities, their life, Socio economic conditions, life of cultural description, child birth and the overall picture of tribal life. The intervention of non tribals in to the tribal area completely destroyed their life and the tribals lost most of their land. They become landless and they depended for others to meet their day today life. Once they had all the freedom at forest and they depended heavily on forest for their livelihood. But later the intervention of non tribals in to the tribal area made a severe block on the rights of tribals. The life of tribal women and children is also clearly mentioned in the book. The policies adopted by the government to support the tribals had become an important part of the topic



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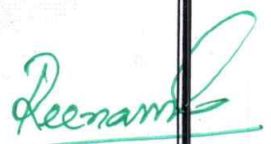
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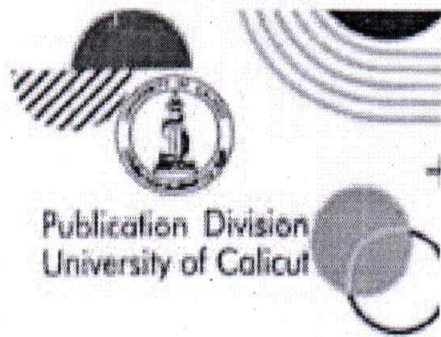
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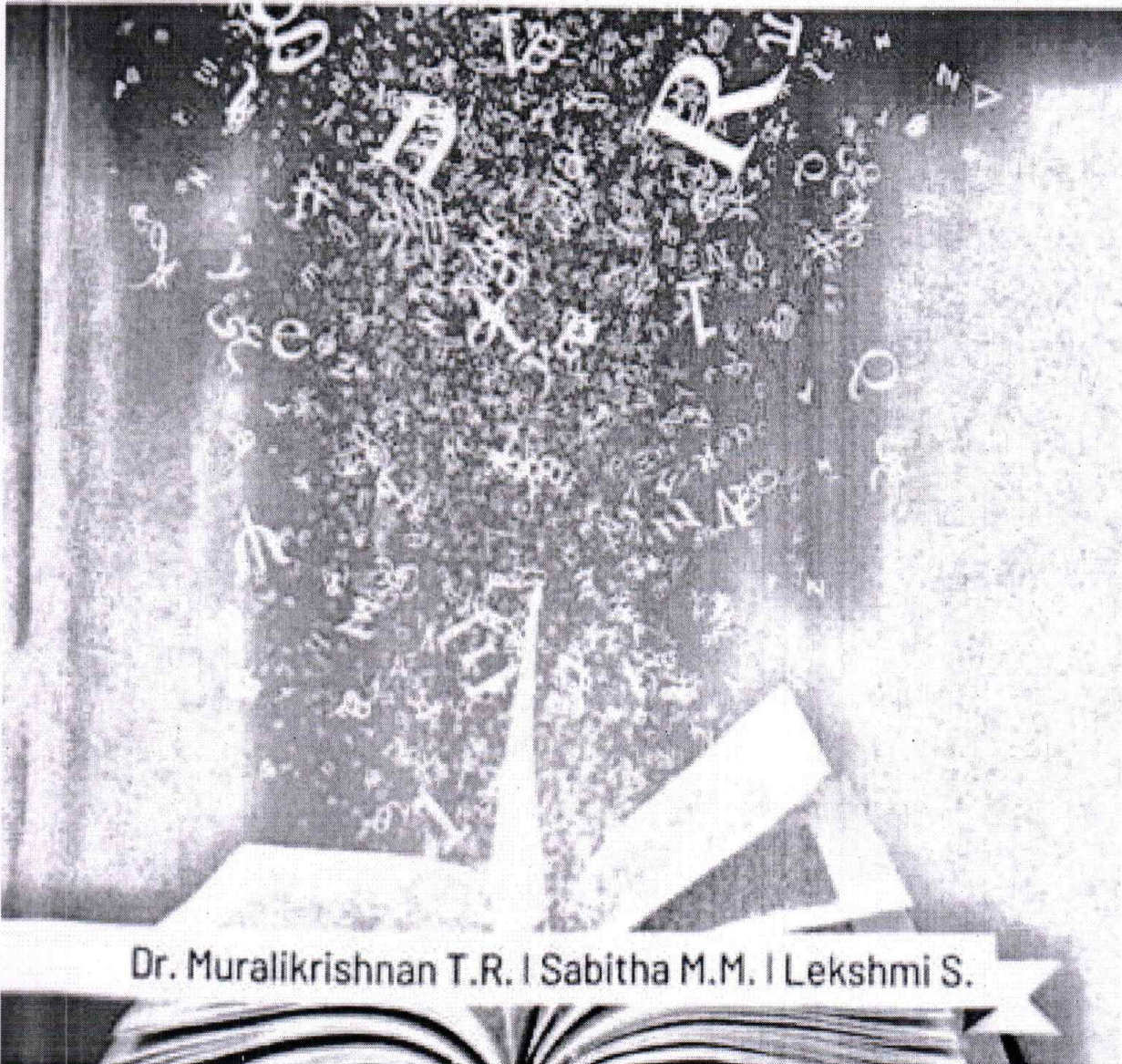


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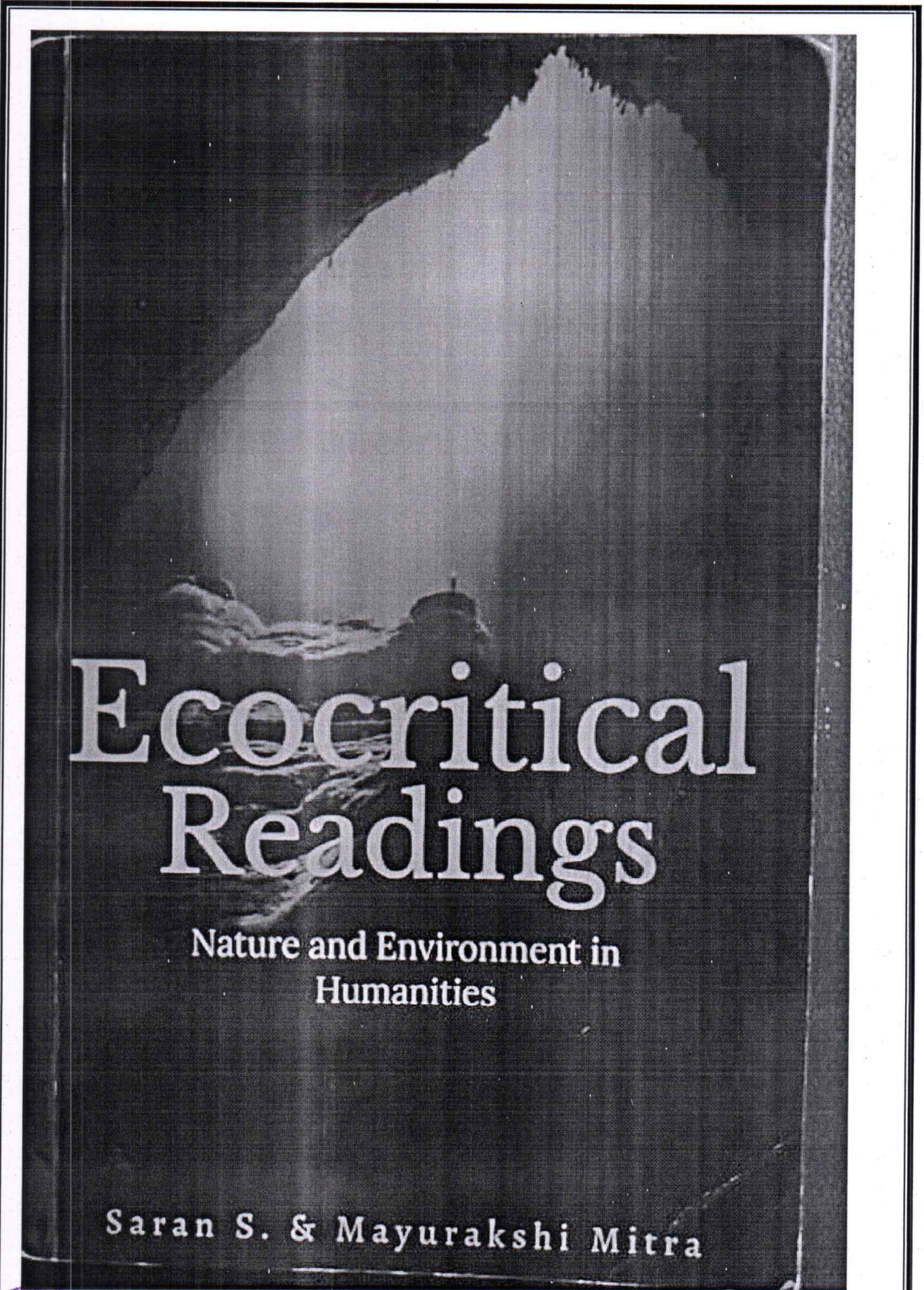
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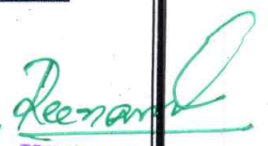


# Ecocritical Readings

Nature and Environment in  
Humanities

Saran S. & Mayurakshi Mitra



*For*   
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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

Sinty Siddiq

Assistant professor, Department of English  
M. E. S. Asmabi 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 'Padmavati' 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'



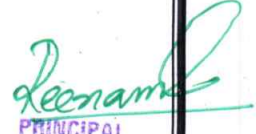
Ecocriticism is an inclusionary term that is most commonly used to refer to environmentally oriented study of literature, art and other media. Life with the harmony of nature and environment is an integral part of human life. Many ancient cultures have advocated life in harmony with environment. Many 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**

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

Somy 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 analysing 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.

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# Chronicles of Heart



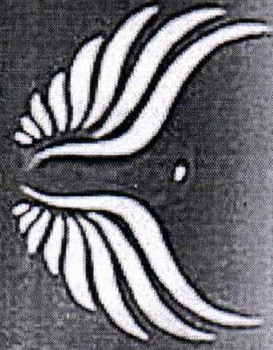
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Haseena Sabir

# Livelihood Status of the Tribal Women



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Ecological Importance of Wetlands

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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>

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

Recommended

Wetland Hydrology  
 Tim Beech, 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  
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Wetlands Conservation: Current Challenges and Future Strategies

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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

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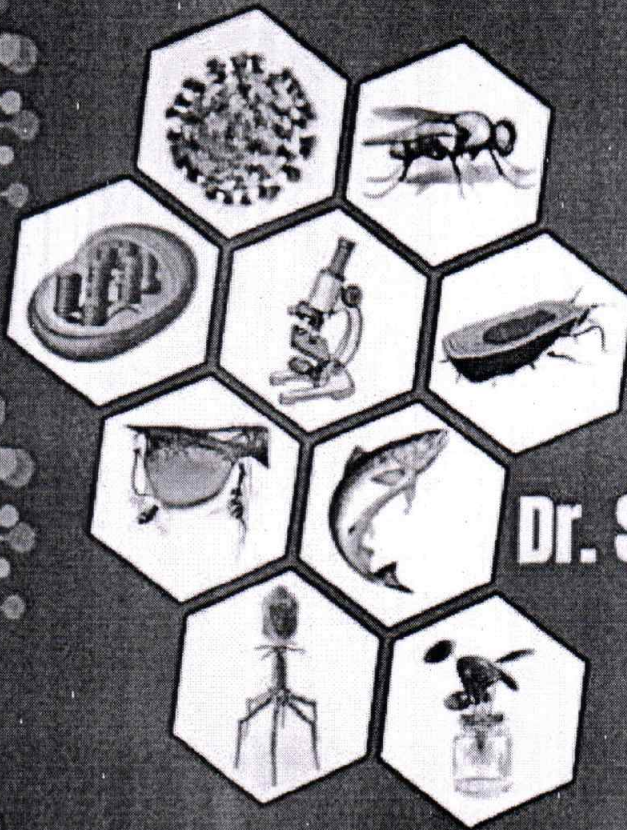
## Realizing the Basal: The Pandemic Impact

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.'

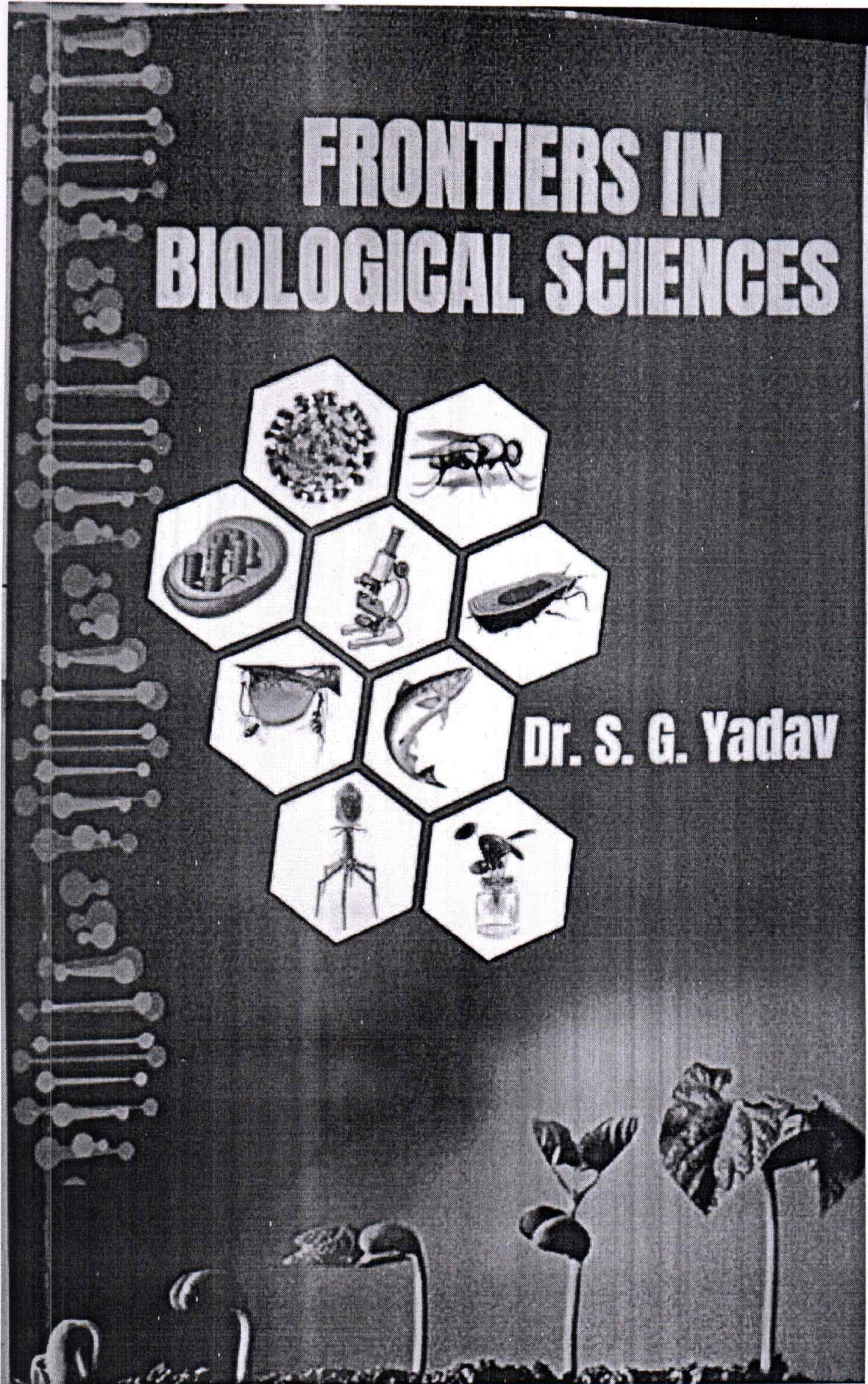
Self-help and appreciation are the best things one can do for inner peace; on the other hand, this will lead to genuine humane feelings discarding the mundane performances. At that time the lockdown was declared as an impact of Covid 19. With the other shutting downs, places of worship were also closed. 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.



# FRONTIERS IN BIOLOGICAL SCIENCES



Dr. S. G. Yadav



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

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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

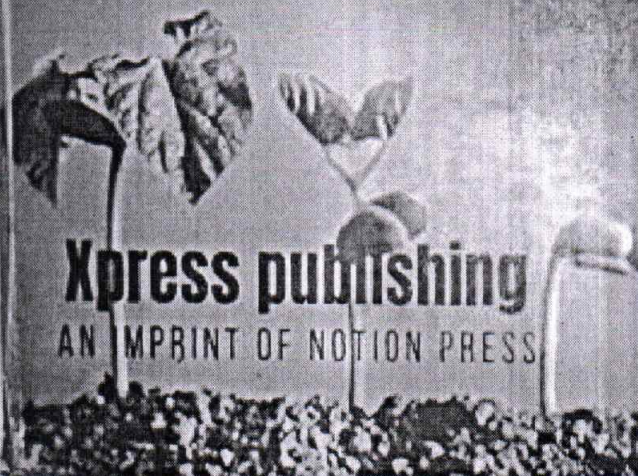




# FRONTIERS IN BIOLOGICAL SCIENCES



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International and National Journals. He has  
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International/National Conferences. He has  
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Aerobiology, Environmental Biology and Plant  
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# ENGAGING LEARNERS IN THE TWENTY FIRST CENTURY

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## Upsurge Of Digital Education: Creating An Impact In Academic Sector

Dr. Reshmi S

Assistant Professor of English, MES Asmabi 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

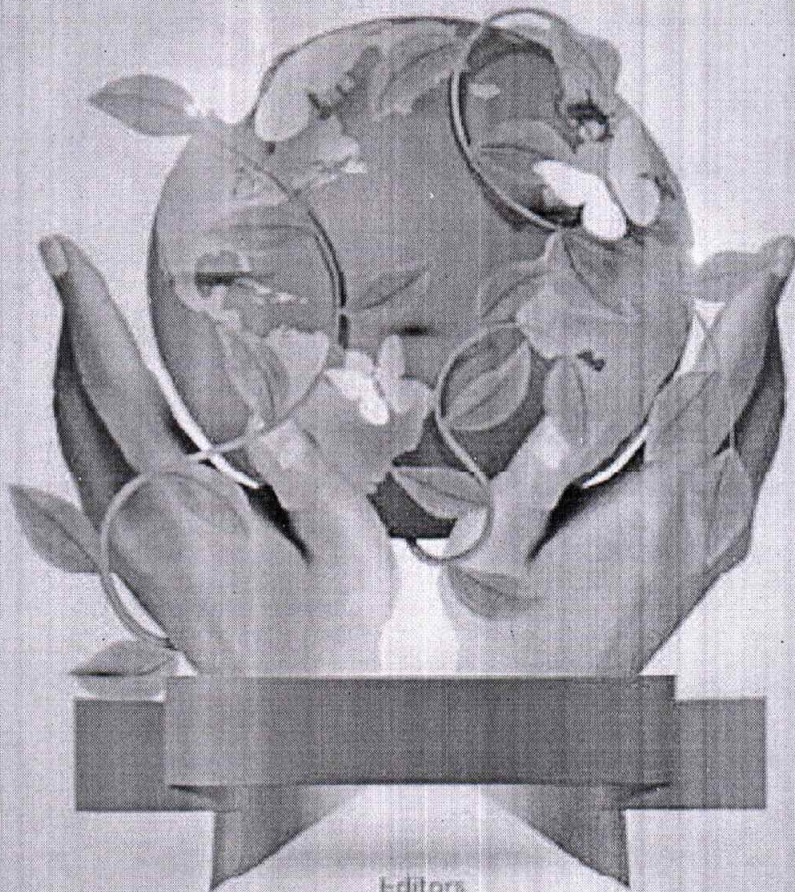


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# Plant Biodiversity and Environment Conservation

(May 20-21, 2021)



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

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### 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).



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वैधानिक चेतानवी  
पुस्तक के किसी भी अंश के प्रकाशन, फोटोकॉपी, इलेक्ट्रॉनिक माध्यमों में उपयोग के लिए लेखक व प्रकाशक की 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 मान्य होगा।

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## पोस्ट बॉक्स नं. 203 नाला सोपारा में ट्रांसजेण्डर विमर्श

संजीव कुमार के.

“डर, हिकारत, अछूता  
होन, 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"। 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



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संस्कृतकाल की कथावस्तु - उत्तराधुनिक संदर्भ में  
 अन्तर्गतकार्य कीरत्याल कृत 'शतद्विधा' का समीक्षात्मक अध्ययन  
 समकालीन हिन्दी उपन्यास में आधुनिक आदिवासी आन्दोलन  
 आदिवासी जीवन की गुंती आवाज  
 रवी का राजनीतिक धारण  
 अन्तर्गतकार्य कीरत्याल हिन्दी उपन्यासों में सरलु दिशा  
 'मे भारत' उपन्यास में किन्कर समाज के आरंभिक जीवन  
 का चित्रण  
 दलित कविता - अन्तर्गतकार्य की प्रति माधवीयता का विरोध  
 समकालीन हिन्दी कविता में भूमिकाभरण  
 अन्तर्गतकार्य कीरत्याल सादी के सतथा  
 अन्तर्गतकार्य कीरत्याल की कविताओं में प्रतिध्वनित दलित नारी चिन्तन :  
 सुशीला झाकरी की कविताओं के विशेष संदर्भ में  
 "समर" - नारी के संघर्षमय जीवन का दूसरा नाम  
 निरंतरन बनाम आत्मनिर्वास  
 जीव अन्तर्गतकार्य कीरत्याल में चित्रित राजनीतिक संघर्ष  
 अन्तर्गतकार्य कीरत्याल का सन्त बनना है  
 को. टी. की कथावस्तु में चित्रित स्त्री-जीवन  
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 'आतंकधर्म' के विशेष संदर्भ में  
 अन्तर्गतकार्य कीरत्याल और उत्तर-आधुनिक आलोचना की अन्वधारणा  
 संघर्ष भरी दायता का दस्तावेज: 'ए. विन्दगी तुझे सलाम'  
 'सब आप' कविता और कविता का खुलासा  
 समकालीन आदिवासी कविता और अस्तित्व बोध  
 हिन्दी कथावस्तु में आम आदमी  
 आदिवासी कविता में आरंभिक बोध  
 भारत का 202 साला रोधा में दसजपुंडर विमर्श  
 दलित चेतना और दलित नारी  
 समकालीन हिन्दी कविता में दायजपुंडर  
 हिन्दी एवं अंग्रेजी के विभाजन साहित्य में स्त्री  
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**ALAGAPPA GOVERNMENT ARTS COLLEGE**

KARAIKUDI, TAMIL NADU, INDIA.

***TRENDS IN ENGLISH LITERATURE***

TEL-2022

*In commemoration of Platinum Jubilee Celebrations 1947- 2022*

8<sup>th</sup> 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.*

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## Flash Fictions: Creative and Innovative Trends in New Literature

Sabitha M.M, Assistant Professor, PG Dept of English,  
Mes Asmabi 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 hazy 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 19<sup>th</sup> century, but they came to be prominent recently in the 21<sup>st</sup> 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 analyze the narrative techniques by exploring some of the popular flash fictions.*

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

### Introduction

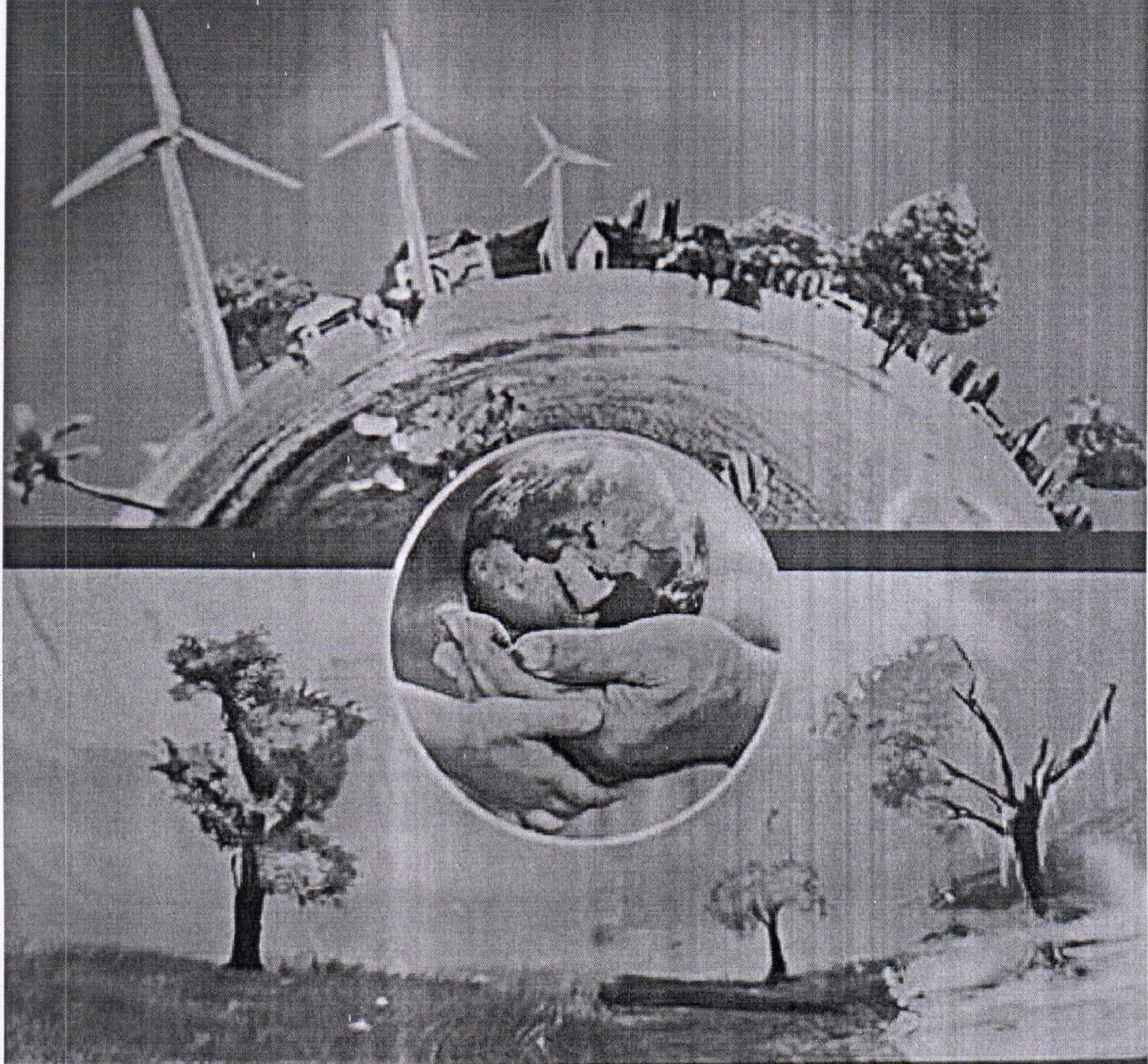
Flash fiction is a type of prose narrative, which takes itself the form of a brief, self-contained story. Its word count ranges from 5 to 1000 words on average and can go up to the maximum of 1500 words. It's also known as short shorts, nano-tale or micro story, and the form of the story is unique as 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 Ernest 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

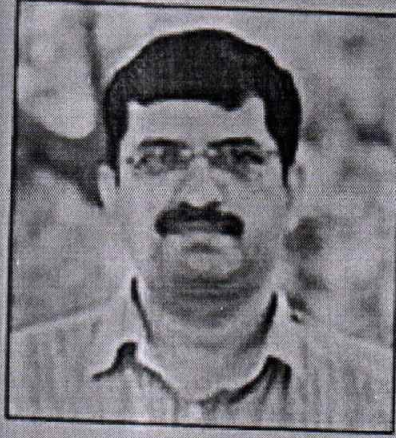


# साहित्य के पर्यावरण विमर्श



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# Reimagining Space and Literature

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## 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.

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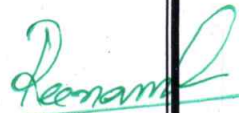
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IMPACT ON THENMALA TOURISM



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# Eco-Tourism in Kerala

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

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# SIGNPOST

## Evolving Poetic Utterance: New Frontiers and Visual Signatures



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NAIPUNNYA INSTITUTE OF MANAGEMENT AND  
INFORMATION TECHNOLOGY  
PONGAM, KORATTY



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PRINCIPAL  
M.E.S. ASMABI COLLEGE  
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## 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,

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### 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 Rajasekar. 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 preservation of Nature in an era of Global warming and the consequent natural calamities.*

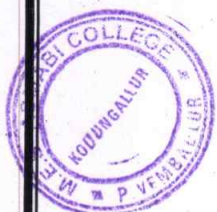
**Key Words:** Ecocriticism, Pastoral, Taoism, Locus amoenus.

### Introduction

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

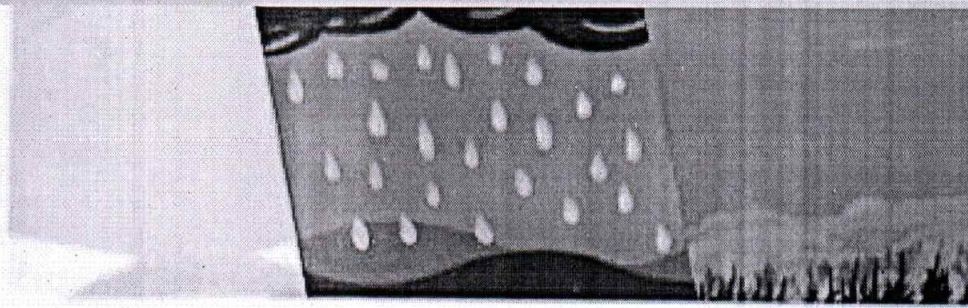
Ecocriticism is the study of literature and environment from an interdisciplinary point of view, where literature scholars analyse texts that illustrate environmental concerns and examine various ways literature treats the subject of Nature.

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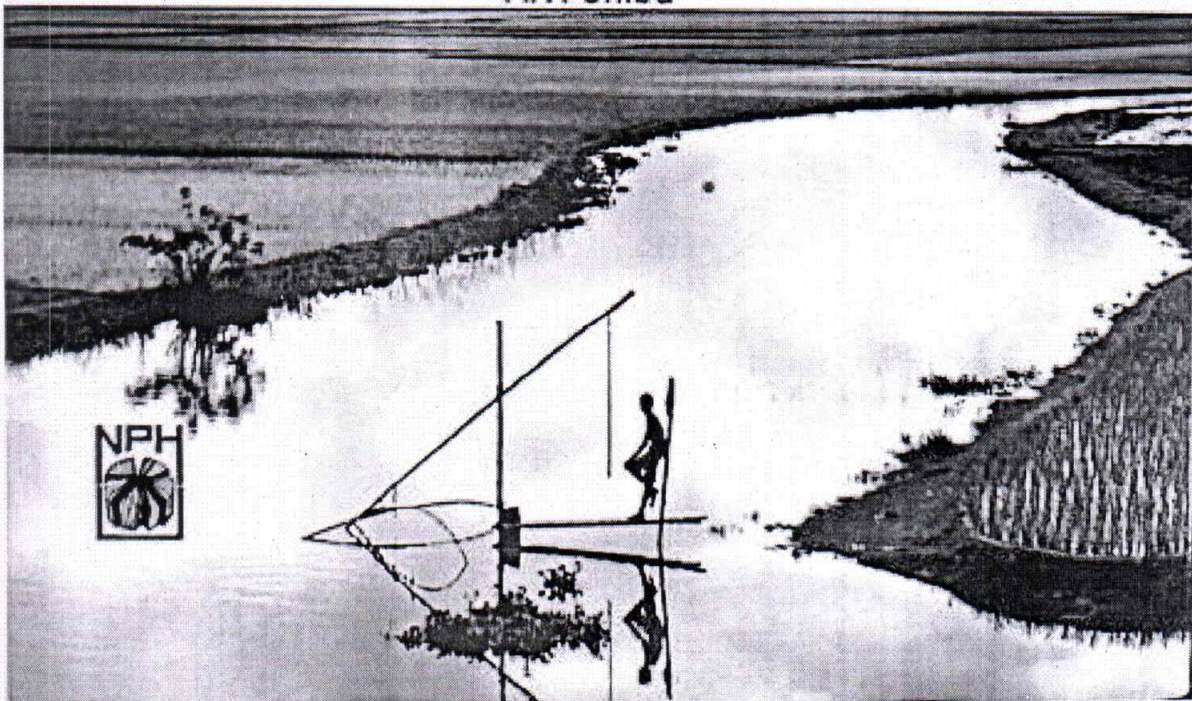
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# IMPACT OF CLIMATE CHANGE ON HYDROLOGICAL CYCLE, ECOSYSTEM, FISHERIES AND FOOD SECURITY

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: *R. Madhusoodana Kurup, M.R. Boopendranath, M. Harikrishnan and A.V. Shibu*  
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## CHAPTER - 39

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

Mary Saniya Stephen<sup>1\*</sup> and Dhanya Pulikkottil Rajan<sup>2</sup>

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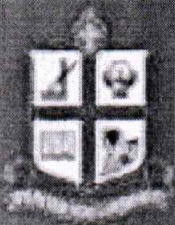
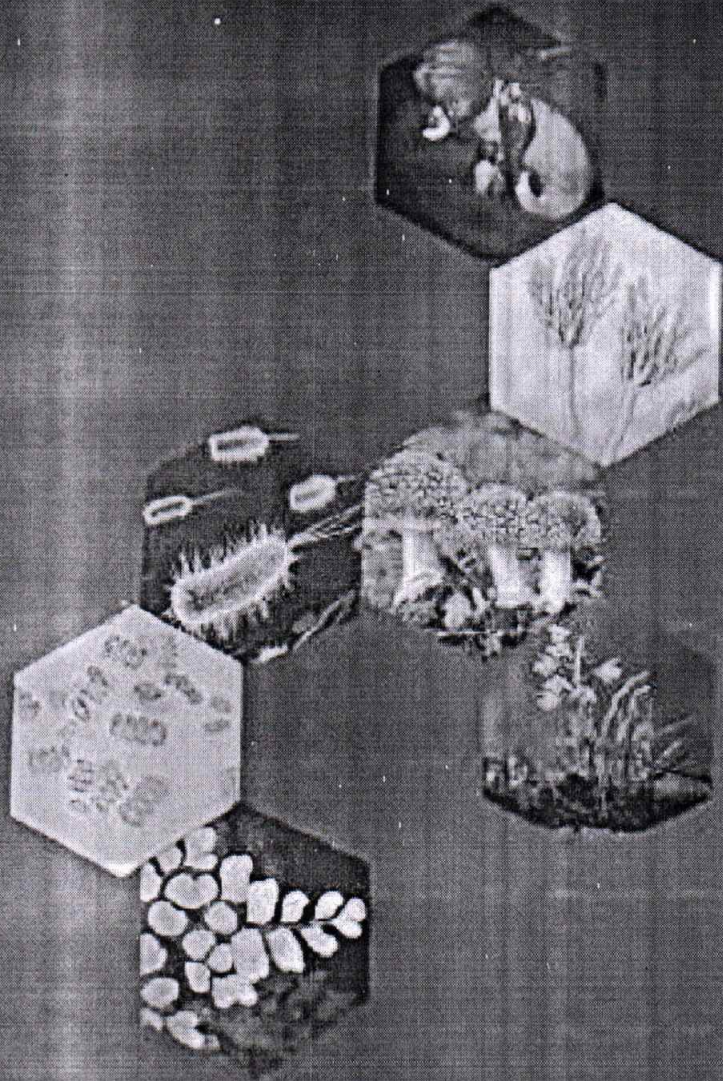
Fisheries sector has witnessed an impressive growth from a subsistence traditional activity to a well-developed commercial and diversified enterprise. It has been playing a pivotal role in the economic development by virtue of its potential contribution to employment generation, income augmentation, 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



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Floral biology and phenology of <i>Impatiens violacea</i> (Balsaminaceae), an endemic balsam of Western Ghats.....	88
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**Taxonomy and Diversity of the Lesser-Known Varieties of *Ficus virens*  
(Moraceae) from The Western Ghats**

Sreehari S. Nair<sup>1</sup> and K.H. Amitha Bachan<sup>2</sup>

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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.

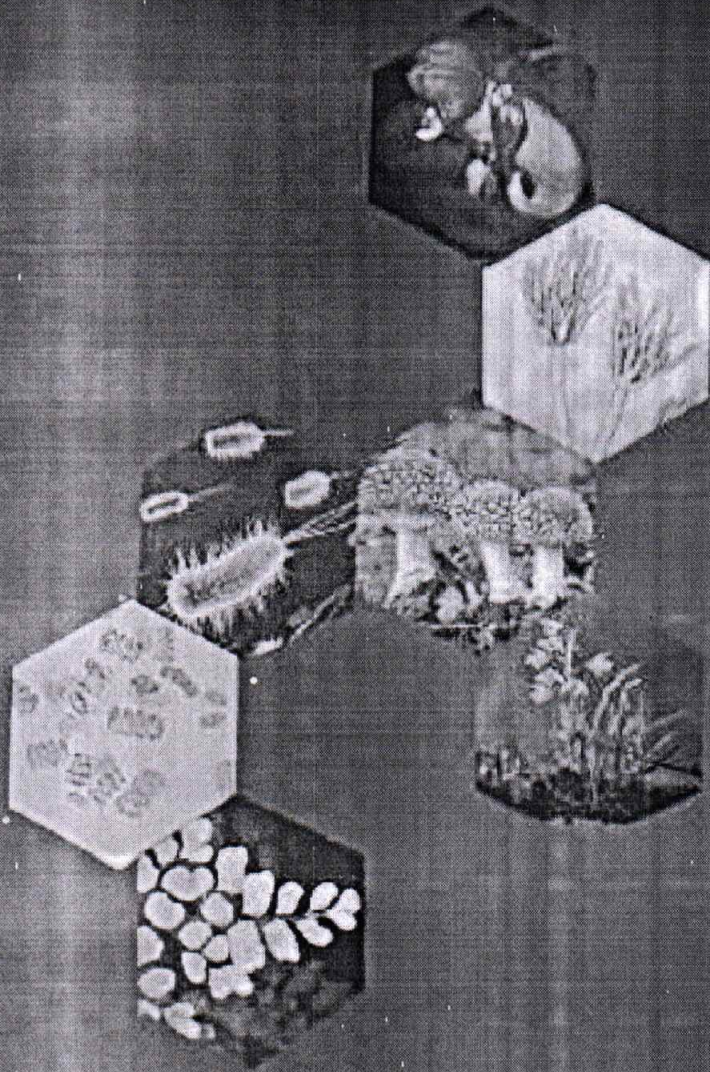
**Introduction**

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



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

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**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 anamalayana* 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.



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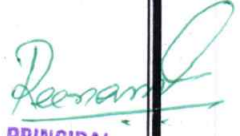


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Hima Harry, an author, Co-author, Editor and a poet who is interested in writing and teaching. Currently, she is working as an Assistant Professor at Carmel College, Mala. Her single authorship book titled "The Revival of Virtues in the Realm of Literature" 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 "Ehida". 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."

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

Reshma T.M

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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



*Reshma T.M*  
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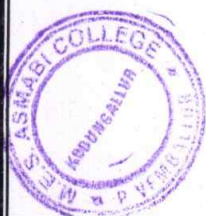
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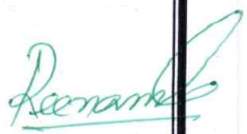
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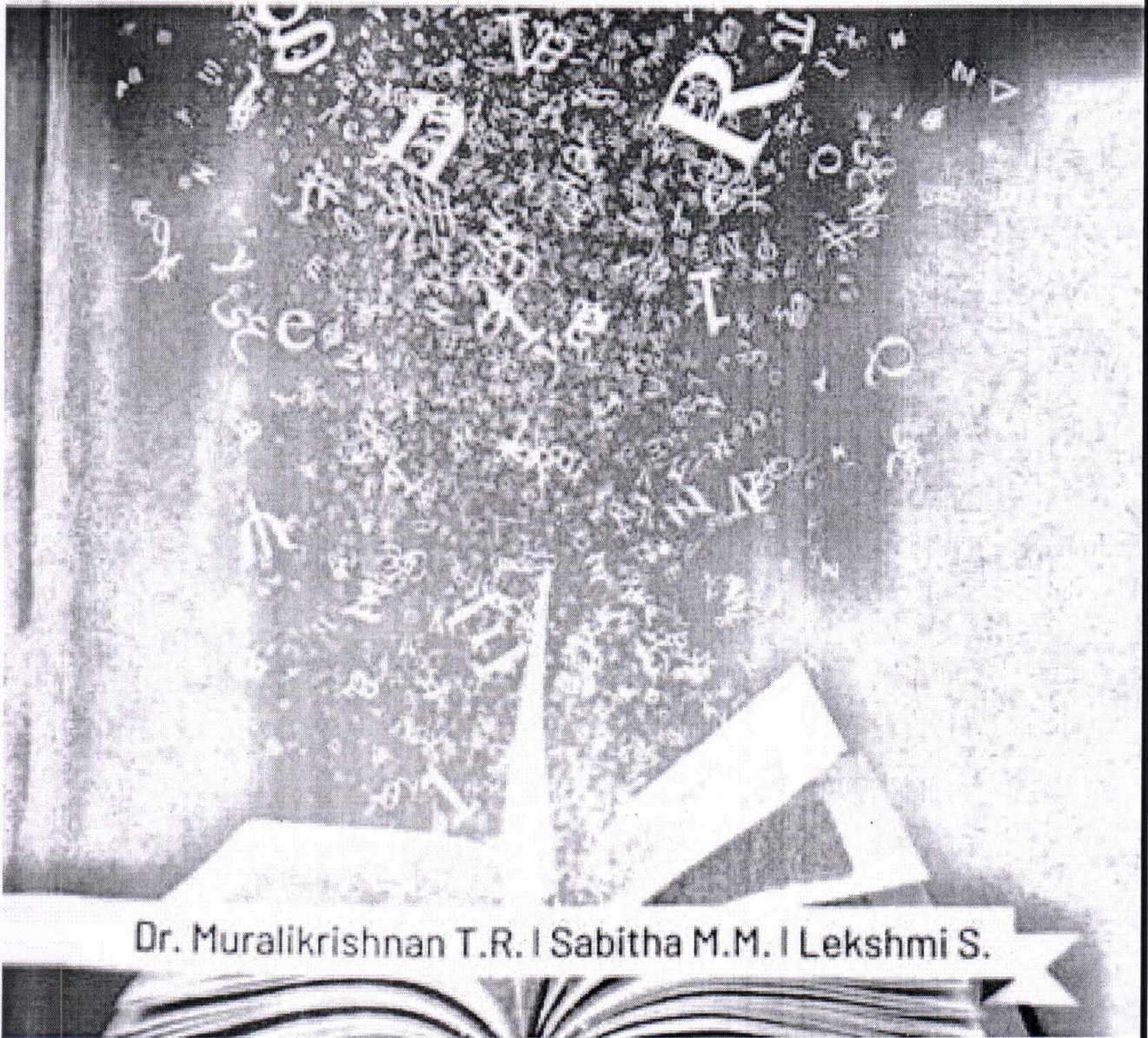


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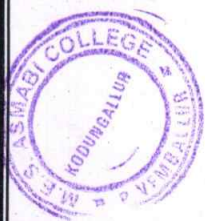


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## Nanotechnology in the Automotive Industry

Micro and Nano Technologies

2022, Pages 317-343

## Chapter 16 - Magnetic nanoparticles-based coatings

P. Poornima Vijayan<sup>a</sup>, Archana Somadas Radhamany<sup>a</sup>, Ansar Ereath Beeran<sup>b</sup>, Maryam Jouyandeh<sup>c</sup>,  
Mohammad Reza Saeb<sup>d</sup>

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## 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.

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## Keywords

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

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# SIGNPOST

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



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



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

Abhinandh Jeneesh



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

Jameelatha.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 topknotting 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

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PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON

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**Priming mediated biotic stress tolerance in *Curcuma longa* L.**T.R. Athira<sup>1</sup> and K.C. Jisha<sup>2</sup>*PG and Research Department of Botany, M.E.S Asmabi College, P. Vemballur, Kodungallur, 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 KNO<sub>3</sub> 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 KNO<sub>3</sub> 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 KNO<sub>3</sub> 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





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Chapter

### Algae: Source of Biofuel and Phytoremediation

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

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