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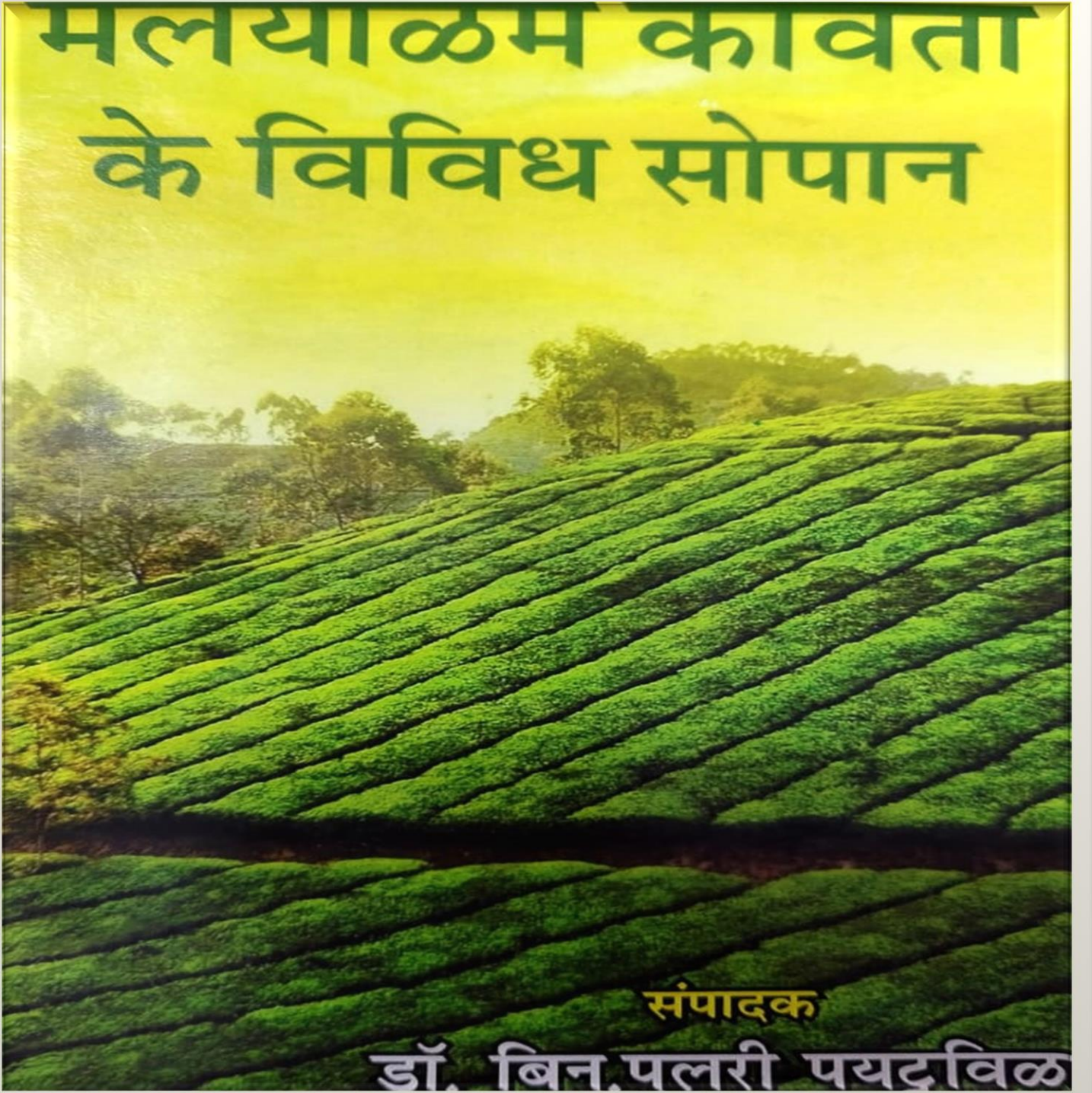
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## भक्ति आन्दोलन और मलयाळम साहित्य

डॉ. सी.एस. सुभाषचन्द्रन


उपनिषदों में भक्ति का सर्वप्रथम परामर्श मिलता है। भक्ति भावना के विकास में पाँच रात का महत्वपूर्ण स्थान है। देवालियों का निर्माण, उनमें मूर्ति की प्रतिष्ठा, विधिवत पूजन, अर्चन इत्यादि का मार्ग संहिताओं ने प्रशस्त किया। तमिषकम में आलवारों ने मिलकर एक धार्मिक क्रांति की। प्राचीनकाल में वैक्कडम (आज आंध्रप्रदेश में) से लेकर कुमरी (कन्याकुमारी) तक के प्रदेश को तमिषकम कहते थे। यहाँ के वैष्णव भक्तों को आलवार कहते हैं। नायनमार (शैव) और अलवार (वैष्णव) दोनों अपने अपने धार्मिक आन्दोलन चलाए। इन आलवारों का लक्ष्य भक्ति भावना को जगाना था, इसलिए उन लोगों ने चतुर्वेद, उपनिषद, भगवद्गीता आदि से भक्तिभाव स्वीकार करके श्लोकों (गीतों) के माध्यम से जनसाधारण में प्रचार किया। इस प्रकार 4000 पदों के संकलन का नाम है 'दिव्यप्रबंधम्'। इसलिए हम कह सकते हैं कि भक्ति भावना मूलतः दक्षिण भारत में उत्पन्न हुई।

भक्ति का प्रवाह दक्षिण भारत से धीरे-धीरे उत्तर भारत की ओर बहने

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ABSTRACT

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# The Acclimatization of HRM Practices in Organisation During Covid -19 Era

Dr. Parvathy Nand<sup>1</sup>, Dr. Ajesh S.R.<sup>2</sup> & Dr. U. Abdul Khalam<sup>1</sup>

## Abstract

Most of the organisation have to be cent percentage alert and adaptive to the unexpected events, not only on internal crisis but also on external crisis. The covid-19 pandemic creates uncertainty and dilemma among the functioning of activities and workforce of the organisation which resulted injury and threats to the overall performance and viability. This article propounds to discuss the problems and issues caused by covid-19 in the working activities of organisation. The various means and measures to be adopted against the pandemic as a precautionary avenue in HRM practices and amendments were showcased in the study.

**Keywords:** HRM, crisis, covid-19, work life

## 1. Introduction

The sudden and unexpected changes brought by the pandemic (covid-19) have pressurized almost all organisations irrespective whether it is small, medium and large to amend and impose flexible and visible regulations, policies and procedures in HRM practices so as to perform the business operation effectively. The HRM plays a pivotal role to mould the employee perception and day to day affairs of the organisation in order to balance the dilemma caused by pandemic. The covid-19 has caused panic situation to both employees and companies. The result is unpredictable and unaccountable. It had badly hit the personal and professional life of employees in the organisation. The common and stable practices followed during the before time of covid-19 were unable to withstand the situation. Millions of employees were unskilled, affected the work life balance, companies shut down, export and import declined were some

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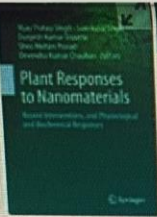
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## PROCESS OF FORENSIC ACCOUNTING IN INDIAN BANKING INDUSTRY

Asha.S. P<sup>1</sup>, Dr. Vishnu. S<sup>2</sup> & Dany Thomas<sup>3</sup>

### Abstract

Forensic accounting is an area of accounting that involves accounting, auditing and investigative skills to conduct examination in order to detect frauds and fraudulent activities. The rise in the number of cybercrimes witnessed the need for forensic accounting. Forensic accounting is different from that of traditional accounting because in forensic accounting, the forensic accountant has his aggressive ability to analyse and evaluate fraud. So, in this context it is imperative to conduct a study on the process of forensic accounting on fraud detection in Indian banking industry. The purpose of this paper is to study the process of forensic accounting in Indian banking sector industry. The study is analytical in nature. Secondary data was used in this study. The data collected by the researcher were analysed by using a table showing the amount of fraud and their corresponding percentage in two financial years. The researcher concluded that fraud monitoring with proper forensic accounting processes with the expertise of a forensic accountant is necessary for a financial institution in order to identify and litigate fraud.

**Key words** –Forensic accountant, Forensic accounting, Fraud risk assessment

### 1. Introduction

With the rise of fraud in the international economy, forensic accounting has becoming an emerging topic in the area of academic, research and industries. Financial fraud detection is the foremost emphasis on forensic accounting. Financial frauds have been rapidly increasing across the world including in the banking sector. Accordingly, the increasing activities of financial frauds require the high engagement of forensic accountants to run the effective investigation along with the performance of individual employees.

2019-2020

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**The fittingness of Artificial Intelligence in the accounting sector in the present and future scenario**

Parvathy Nand, Assistant Professor, PG Department of Commerce, SN College, Chathanoor.

**Abstract**

The introduction and application of Artificial Intelligence in the accounting field not only made changes in the specific sector, it is affecting and introducing drastic changes in all the vital sectors of the financial system. The significant change made by Artificial Intelligence when relating to accounting practices is the change of routine means of entering transactions from paper entry to newly and sophisticated computer and software entry. The new phenomenon that enhance the accuracy of performing the accounting transactions were highly dominated by Artificial Intelligence. The advent and development of information technology and to cope up with the requirements of the society and economy, artificial intelligence emerged ad a golden technique for accounting practices. It is quite evident that the artificial intelligence applicability in accounting sector brings numerous and prosperous changes and trends for its growth and development. The increased productivity, impoverishment of accounting practices, reduction of cost, automation of data handling and processing were mentioned as the positive impact of

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# **Holistic Thought**

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This book attempts to provide an in silico analysis of Chikungunyavirus that causes Chikungunya infection. This work entails and discusses many obscure facts about the pathogen CHIKV, which could possibly reveal the enigma associated with Chikungunya infections. The study includes a genome wide comparative analysis of CHIKV viral strains of all the genotypes to understand evolving nature, mutation trend and degree of conservation among CHIKV viral strains. The study also aimed to analyze recombination events in CHIKV viral strains and recombination hot spots along the CHIKV genome. Further, the thesis analyzes epitopic peptides in CHIKV antigenic proteins and proposes druggable target peptides for developing effective vaccines for the disease. This computational epitopic studies and identification of druggable target peptides can mitigate the cost and time overruns of the trial and error based traditional drug design methods. Moreover, these studies could pave way for designing effective disease diagnostic approaches. Furthermore this work presents an in silico genotyping tool for Chikungunya virus to characterize the genotype of 2 unknown CHIKV strains using soft computing approaches.



R. V. Vidhya

Dr Vidhya R.V., Assistant Professor, Sree Narayana College, Chathannur.

## In silico analysis of Chikungunya Viral Genome

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inside a zinc imidazolate framework. Dalton Trans. 44 (2015) 10136-10140. catalysts by loading

## 58. Hydrothermal Synthesis of Copper oxide- Carbon composites using the Leaf Extract of *Ficus religiosa*, the Characterization, Antimicrobial Activity and Evaluation of Cytotoxicity

<sup>1,2</sup>Bhavyasree, P.G, <sup>2,3</sup>Xavier, T.S

<sup>1</sup> Department of Physics, S. N College, Chathannur

<sup>2</sup> Department of Physics, Govt. College for Women, Trivandrum

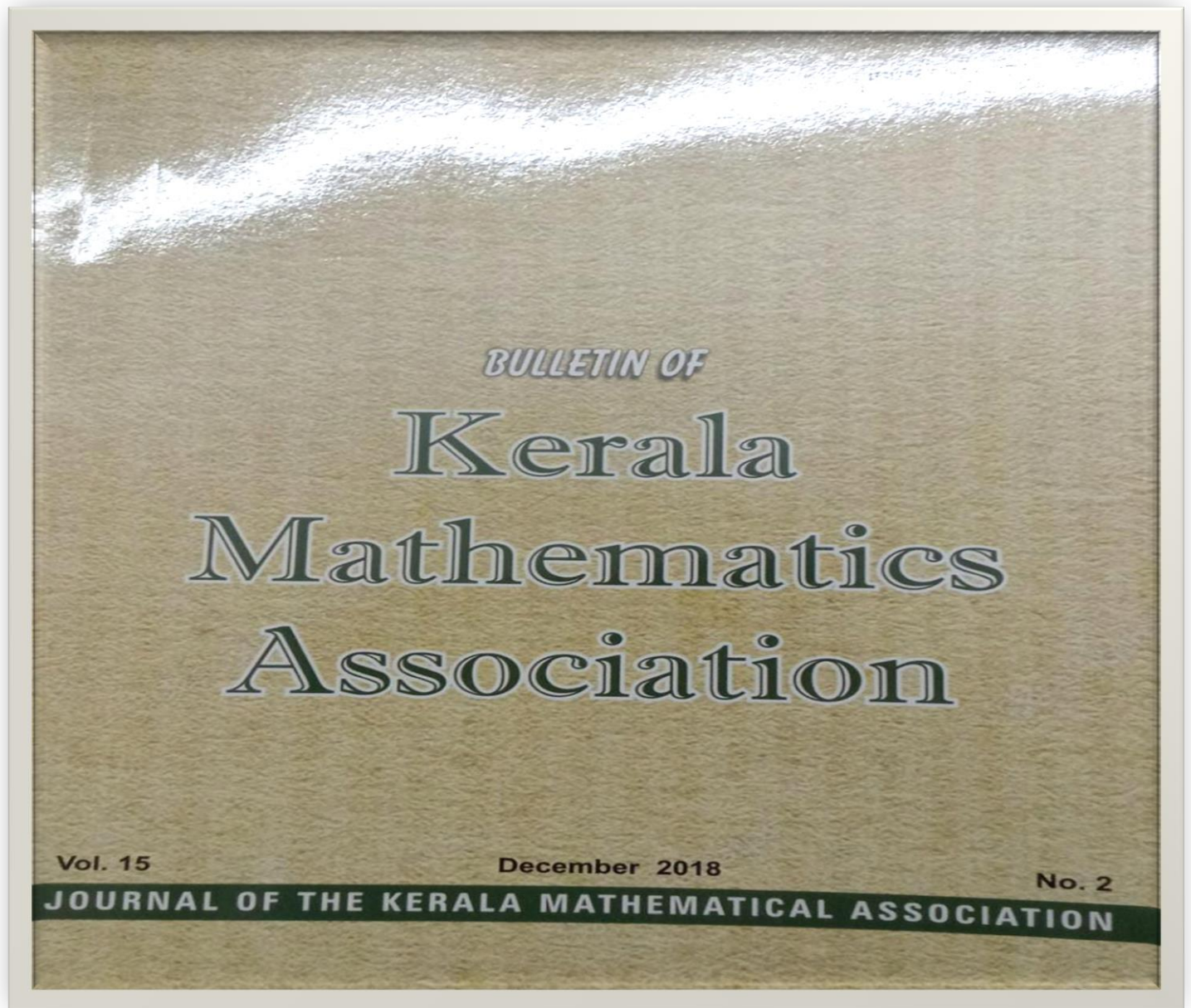
<sup>3</sup> University of Kerala, India  
xavierkattukulam@gmail.com

The Copper oxide- carbon nano composites were prepared by a one pot hydrothermal synthesis using the leaf extract of *Ficus religiosa*, serves as the capping agent, reducing agent and a carbon precursor in the process. The composites were synthesized by chemical reaction between copper sulphate and the leaf extract at 160°C. The prepared material was characterized by UV-Visible, FE SEM, XPS, FTIR and Photoluminescence spectrum of the composites were also recorded. The nano composites showed antimicrobial activity. The composites showed good antibacterial activity against the bacteria *Escherichias Coli*, *Pseudomonas aeruginosa*, *Klebsiella pneumonia*, *Staphylococcus aureus* and antifungal activity against the fungi *Aspergillus niger* and *Candida albicans*. Also the composites were evaluated for the cell lines L929 and showed to be toxic.

**Key words:** Green synthesis, *Ficus religiosa*, Antimicrobial activity, Cytotoxicity

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## **SFS AND SFS-2 DOMINATION**

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**Abstract.** Let  $G_{A,V}$  be a fuzzy soft graph and  $S \subseteq V$  is a fuzzy soft dominating set in  $G_{A,V}$ , then  $S$  is said to be a secure fuzzy soft dominating set if for each vertex  $x_i \in V - S$  is adjacent to a vertex  $x_j \in S$  such that  $(S - \{x_j\}) \cup \{x_i\}$  is a dominating set for all  $e \in A$  and the minimum fuzzy soft cardinality taken over all minimal secure fuzzy soft dominating sets is called secure fuzzy soft domination number and is denoted by  $\gamma_{\text{sfs}}(G_{A,V})$ .

**Subject Classification:** 05C72 **Keywords:** Secure Fuzzy soft domination, Secure Fuzzy soft domination number, total secure fuzzy soft domination, fuzzy soft 2-dominating set, total fuzzy soft 2-dominating set, secure fuzzy soft 2-dominating set, total secure fuzzy soft 2-dominating set.

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## CR Domination in Fuzzy Soft Graphs

Rani Rajeevan\* and Mathew Varkey T K\*\*

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Kollam

\*\* Assistant Professor, Department of Mathematics, T K M College of Engineering, Kollam

**Abstract:** Connected domination and regular domination have vital roles in fuzzy graph theory. In this paper we introduce these two concepts together in fuzzy soft graphs. Let  $G_{A,V}$  be fuzzy soft graph. A fuzzy soft regular dominating set  $S_r \subseteq V$  is said to be a **fuzzy soft connected regular (CR) dominating set** if the induced subgraph  $\langle S_r \rangle$  is connected and it is denoted by  $Scr$ . The minimum fuzzy soft cardinality taken over all minimal fuzzy soft connected regular dominating set is called **fuzzy soft connected regular domination number** and is denoted by  $\gamma_{fscr}(G_{A,V})$ .

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## THE INCLUSION OF INDIA IN THE BRICS – AN OVERVIEW

PARVATHY NAND<sup>1</sup> & Dr. U. ABDUL KHALAM<sup>2</sup>

<sup>1</sup>Assistant Professor, PG Department of Commerce, SN College, Chanthussar.

<sup>2</sup>Principal, Iqbal College, Peringamala, Thiruvananthapuram.

### ABSTRACT

India, played a vital role in the economic and social development of the country by forming a collaboration and alliance with BRICS as one of its member country. The growth for industrialisation, maximum trade and development were considered as the real motive behind India to become part of BRICS. A multifaceted role was performed by the country, India for its economic, political and social fronts and took necessary and active initiatives right from its inception in BRICS. It paved a high priority to the BRICS forum for promoting global economic growth, peace and stability and the focus areas of India's policy towards BRIC is the co-operation of economic front and also India represented BRICS as a platform to build multilateral relations with Latin American, African and Asian countries. The India is expected to record a high annual growth of 7.6% between 2015 to 2017. In this context, an overview of India and its involvement in BRICS, the performance and benefits gained by India is discussed in the paper

Keywords: BRICS, India, performance evaluation.

### INTRODUCTION

The strategic alliance of five important nations in the world constituted for the social and economic

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# दक्षिण भारतीय साहित्य में स्वतंत्रता आंदोलन



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## स्वतंत्रता संग्राम और मलयालम कविता

■ डॉ.सी.एस. सुभाष चन्द्रन

**स्व**तंत्रता संग्राम के जमाने में समाज में व्याप्त ऊर्जा ने मलयालम साहित्य की गतिविधियों को शक्ति प्रदान दी। खासकर कविता साहित्य की विधा में हमारे साहित्य को आमजनता के बीच सबसे अधिक महत्त्व उस समय मिला।

अदम्य स्वतंत्रता प्राप्ति की इच्छा ने कविता का विषय स्वीकार करने के लिए नया भावजगत प्रदान किया। अधिक संस्करण किए गए शब्दों के बदले प्रादेशीय शब्दों और लोकगीतों से साहित्यकारों का विचार या भाव उसी प्रकार से पाठक तक पहुँचाने के लिए सहायक बना। स्वतंत्रता के बोध को कविता का विषय चुनने से मलयाली की चिन्ताधारा और आस्वादन क्षमता को समूल परिवर्तन मिला स्वतंत्रता प्राप्ति की जरूरत और उसे पाने के लिए स्वतंत्रता संग्राम में सजीव रूप से भाग लेने की आवश्यकता के बोध ने उनके मन में एक नयी स्फूर्ति पैदा की।

महाकवि कुमारनाशान की कविता मलयाली को अभिमान के साथ जीने के लिए और स्वतंत्रता संग्राम में भाग लेने के लिए प्रोत्साहित करती थीं।

उस जमाने के लगभग सभी साहित्यकारों ने अपनी शक्ति के अनुसार स्वतंत्रता का आवेग अपनी कृतियों में प्रतिपाद्य विषय चुनकर उस समय में शामिल किया था। अंशी नारायणाविल, महाकवि कुमारनाशान, महाकवि वल्लत्तोल नारायणपिल्लै, वैलोप्पल्ली, श्रीधरा मेनोन, वी.सी. बालकृष्ण पणिक्कर, इडशेरी गोविन्दन नायर, जी शंकरा कुरुप, बोधेश्वरन, बालामजियम्मा, पी. कुंजिरामन नायर, एन.वी. कृष्ण वारियर, पी. भास्करन, चंडपुंषा, कृष्ण पिल्लै आदि ने विचार देती है।

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OP-4

## Green Synthesis of Copper Nanoparticles using Adhatoda Vasica Tree Leaf Extract, Characterization and their Antimicrobial Study

Bhavyasree P G<sup>#,1,2</sup>, Xavier T S<sup>2,3\*</sup>

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### Abstract

Green synthesis of nanoparticles using plant extract can be suggested as an alternative to physical and chemical methods. In our study, copper nanoparticles were synthesized using extract of adathoda vasica leaves. To the best of our knowledge this is the first report on the preparation of copper nanoparticles using the leaves extract of adhatoda vasica as both reducing and capping agent. The synthesis procedure includes the treatment of  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$  with adhatoda vasica leaf extract. The synthesized nanoparticles were characterized by UV-

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### **On FSC, FSS and FSPS domination**

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**Abstract:** Let  $G_{A, V}$ , be a fuzzy soft graph and  $S \subseteq V$  is a fuzzy soft dominating set in  $G_{A, V}$ , then  $S$  is said to be a fuzzy soft connected (FSC) dominating set if the fuzzy soft graph induced by  $S$  ( $\langle S \rangle$ ) is connected for each parameter  $e \in A$ .  $S$  is said to be a fuzzy soft point set (FSPS) dominating set if for every  $V \subseteq V - S$  and for each parameter  $e \in A$ , there exist a vertex  $x \in S_i$  such that  $\langle V, \{x\} \rangle$  is a connected fuzzy soft graph.

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### ABOUT THE AUTHOR

Salu Somanathan



He, the author himself has proved to be an expert in Mathematical Sciences by qualifying CSIR-UGC NET examination (LS) and Junior Research Fellowship (JRF) several times since 2016 June. He worked as an Assistant Professor in S.N College, Kollam (Chathannur). Currently, he is a Research Scholar at S.D. College, Alappuzha, Kerala University. He did his Post Graduation in Mathematics at St. Aloysius College, Edathua and his graduation at T.K.M.M College, Harippadu. Also, Advance Diploma in Travel, Tourism and Hotel Management from Kerala University. He did a Post Graduate Diploma in computer application from Centre for Development of Imaging Technology (C-DIT). He has also qualified, Graduate Aptitude Test in Engineering (GATE) a voluminous times. For being an expert in mathematical field and to keep himself updated regarding the changing trends in his fields, he has attended almost 30 National Seminars/Webinar/Conferences.

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