



**SOKA IKEDA COLLEGE OF ARTS AND SCIENCE FOR WOMEN**  
(Affiliated to the University of Madras)  
Chennai 600 099, Tamilnadu.

**3.3.1. Number of research papers published per teacher in the Journals as notified on UGC CARE list during the last five years**

**2020**

S.No.	Title of the Paper	Name of Author/s	Department of the Teacher	Name of Journal	Calendar year of Publication	ISSN Number
1	An Authentication Protocol for Secure Processing of ATM Systems by Fusion of Biometric and Crypt-Steganography Techniques	Mrs. P. Anitha, Mrs. M. Grace	Computer science	International Journal of Computer Trends and Technology (IJCTT)	2020	ISSN: 2231-2803
2	Understanding The Crux of Globalization With Aravind Adiga's Last Man In Tower	Dr.R. Sandhya Lakshmi	English	A Journal of Composition Theory	2020	ISSN: 0731-6755
3	Biometric Security For Cloud Data Using Fingerprint	Mrs. J. Vimal rosy	Computer science	Science, Technology and Development Journal	2020	ISSN: 0950-0707
4	An updated review on Couroupita guianensis Aubl: a sacred plant of India with myriad medicinal properties	Mrs. L Anna Sheba	Biochemistry	Journal of Herbmed Pharmacology	2020	DOI/10.34172/jhp.2023.42334



  
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5	Infrastructure of Public Mini Bus Transport Services in Villivakkam Area in Chennai	Mrs. D.Sasikala	Economics	Mukt Shabd Journal	2020	ISSN: 2347-3150
6	Antioxidant Potential of Caesalpenia Bonducella Seeds in the Management of Polycystic Ovary Syndrome (PCOS) Using Mifepristone Induced Rats Model	Mrs. B. Meera	Biochemistry	Journal of Herbs, Spices & Medicinal Plants	2020	DOI: 10.1080/10496475.2020.1795041



  
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## An Authentication Protocol for Secure Processing of ATM Systems by Fusion of Biometric and Crypt-Steganography Techniques

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**Abstract:** Biometric authentication mechanisms are receiving a lot of public attention. Biometrics based authentication is a potential candidate to replace password-based authentication. This paper aims at developing a novel authentication protocol by fusion of Biometric and Steganography techniques for secure processing of ATM Systems. Visual Steganography provides a very powerful technique by which one secret can be distributed in two or more shares. During the enrollment phase in the bank terminal, the user has to enroll his/her fingerprint and finger vein and these enrolled biometric images are required to undergo certain processing and the resultant images are encrypted using RSA algorithm with a secret key and by using the visual steganographic technique, the encrypted secret key is shared between the two images. In the verification procedure, new finger vein and fingerprint images are obtained in the ATM terminals and after processing of the acquired biometric images, it will be decrypted by RSA algorithm using the same secret key and those are verified with the images stored in the bank's database. If matches with the database, then the user can carry out the money transactions and every user has three trials to access the ATM systems and if exceeds, the system will automatically logout the transaction. Since ATMs are now a normal part of daily life, the application of multimodal biometric techniques in every ATM Center's in our country, leads to reduce the stealing and forging and it is very useful for all the people.



  
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**UNDERSTANDING THE CRUX OF GLOBALIZATION WITH ARAVIND ADIGA'S**

***LAST MAN IN TOWER***

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Hermeneutics refers to the study of interpretation of anything that is manmade and which can have several embedded meaning it unlike the natural sciences which does not have multiple meanings. It is basically applied to understand Biblical texts but can be applied to other texts as well. A text can be understood against its context in a different way. Hermeneutics is a theory of interpretation which tries to find the meaning of smaller units and bigger units trying to locate the meaning of both. To understand and interpret the Indian Fiction in English of the new millennium, a proper understanding of the background is necessary. One of the important factor that has influenced everything in the new millennium is the globalization. The effect of globalization can be seen everywhere including the literary world. So a proper understanding of globalization and its effect on people of India is needed



  
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## BIOMETRIC SECURITY FOR CLOUD DATA USING FINGERPRINT

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### Abstract

The most important phenomena in the cloud is nothing but security of confidential business data and it is sure that only authenticated and authorized personnel can have access the data and applications in the cloud. It is the frightening security risk and a threat between the users both to a distant server away from the direct control of the user. It will be deeply analyzed, in the paper, the use of biometric authentication in cloud computing. It opens a new way to help reducing the security threats. The reason is this that the provision of biometric authentication seems to be comprehensive and structured overview for the enhancing security in the cloud.

**Keywords:** Cloud Computing, Biometrics, fingerprint, Cloud Security, Authentication

### I. Introduction



  
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## An updated review on *Couroupita guianensis* Aubl: a sacred plant of India with myriad medicinal properties

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### ABSTRACT

From ancient times, medicinal plants have been making important contributions to mankind owing to their healing properties. Their fundamental aspects such as safety, quality, and efficiency ensure the role of plant-based medicines in healthcare. *Couroupita guianensis* Aubl, commonly known as cannonball tree, is a member of the family Lecythidaceae (Brazil-nut family). Cannonball tree has gained worldwide attention because of its immense therapeutic values including antibiotic, antiseptic, anti-inflammatory, antimicrobial, antimycobacterial, analgesic, antiarthritic, anti-biofilm, antidiarrheal, antifertility, antipyretic, antistress, antitumor, antiulcer, antidermatophytic, wound healing and immunomodulatory activities. Almost all parts of the tree have been used traditionally for treating various ailments. It has been reported that *C. guianensis* is a rich source of bioactive compounds, specifically the presence of isatin, tryptanthrin, and indirubin is noteworthy. The present review covers in-depth literature survey concerning ecology, morphology, ethnopharmacology, phytochemistry and toxicological information of *C. guianensis*. This review attempts to summarise information relating to the medicinal value of *C. guianensis* to date in order to provide baseline knowledge for future works.

### Implication for health policy/practice/research/medical education:

This review provides up to date information on phytochemistry and multiple biological activities of *Couroupita guianensis* Aubl. establishing a wider interest in safety application to humans in future.

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**INFRASTRUCTURE OF PUBLIC MINI BUS TRANSPORT SERVICES IN  
VILLIVAKKAM AREA IN CHENNAI**

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**Abstract**

Urban form and the mini bus transport system have an excessive impact on the way of travelling people. Travel can be characterized by trip frequency , travel distance, model choice , route choice etc. with rapid growing economics and population. The people are living in the Urban areas as well as in the small towns are always backward in all facilities especially in the case of public bus transport. Mini bus transport services have an enormous impact on the way of public bus transportation in the area of villivakkam in Chennai. This study relates the problem of number of buses,number of people travelling both male and female , and category wise people using mini bus services.Fast moving vehicles, encroachment on the street by people, lack of bus facilities and lack of buses are peak hours. The mini transport problems in Chennai growing rapidly because of increasing motorization. The result of this study reveals the current public transport scenario.

**Keywords:** Public bus transport system, mini bus transport services, sustainable transport modes , Rapid transit system .



  
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## Antioxidant Potential of *Caesalpenia Bonducella* Seeds in the Management of Polycystic Ovary Syndrome (PCOS) Using Mifepristone Induced Rats Model

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### ABSTRACT

The effects of ethanolic seed extract of *Caesalpenia bonducella* (ESECB) on *in vivo* enzymatic and non-enzymatic antioxidant levels and histopathological changes in Mifepristone-induced polycystic ovary syndrome (PCOS) female rats were evaluated. PCOS-induced rats were treated with ESECB at 200 mg and 400 mg kg<sup>-1</sup> b.w. p.o. for 28 d. Metformin 20 mg kg<sup>-1</sup> b.w. was used as a standard drug. At the end of the experimental period, blood was collected from all rats for the estimation of enzymatic and non-enzymatic antioxidants. Ovaries were used for the histopathological analysis. In rats treated with Mifepristone, there was a decrease in the antioxidant enzymes catalase, super oxide dismutase, glutathione peroxidase, glutathione – S – transferase and glutathione reductase, which increased in the ESECB-treated groups. The altered levels of non-enzymatic antioxidants were also brought back to normal levels in these groups. Histopathology showed that the ESECB-treated rats regained normal physiology of ovarian architecture, which was distorted due to the PCOS condition.


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