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3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years.

3.3.2.1. Total number of books and chapters in edited volumes/ books published and papers in national/ international conference proceedings year wise during last five years

Year	2022-23	2021-22	2020-21	2019-20	2018-19
Number	10	2	26	2	1

Total number of books and chapters in edited volumes/
Books published and papers in national/international conference
proceedings

Number of full time teachers

During the last five years (without repeat count)

$$= 41/20$$

$$= 2.05$$



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Academic Year 2022-23

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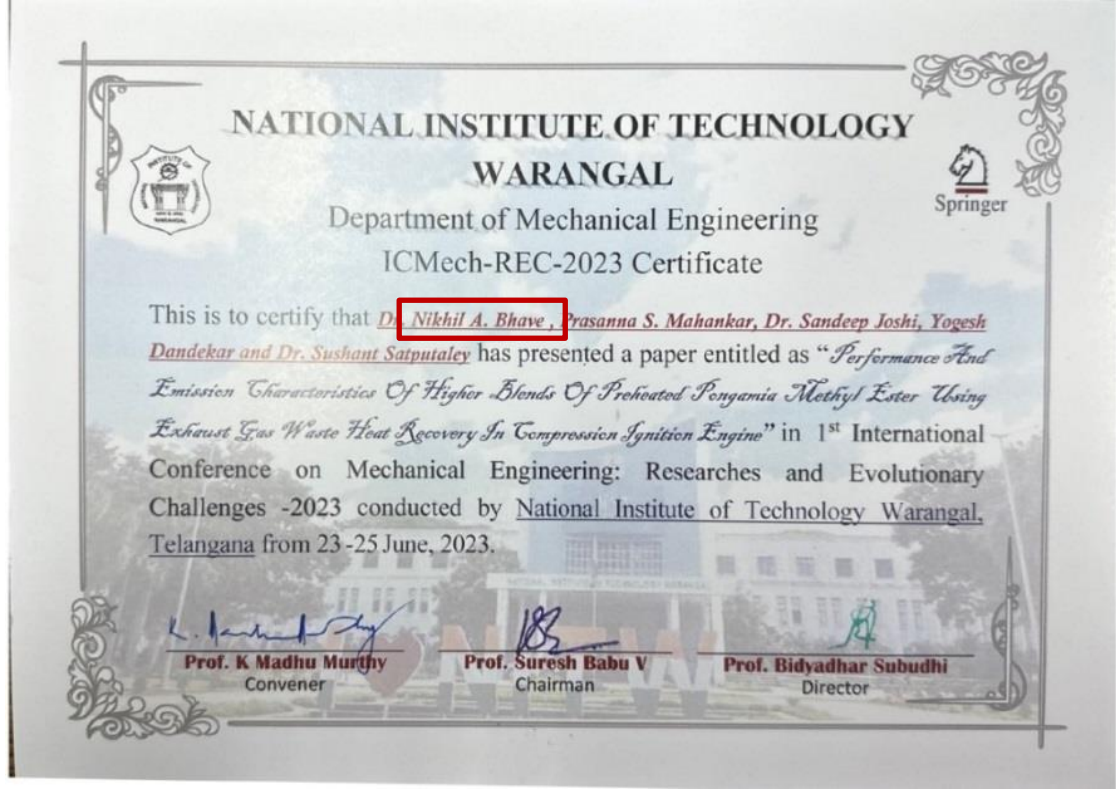


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Certificate for paper “**Performance and Emission Characteristics of Higher Blends Of Preheated Pongamia Methyl Ester Using Exhaust Gas Waste Heat Recovery In Compression Ignition Engine**” presented in ‘International Conference on Mechanical Engineering: Researches and Evolutionary Challenges’ by **Dr. Nikhil Bhave (25-06-23)**



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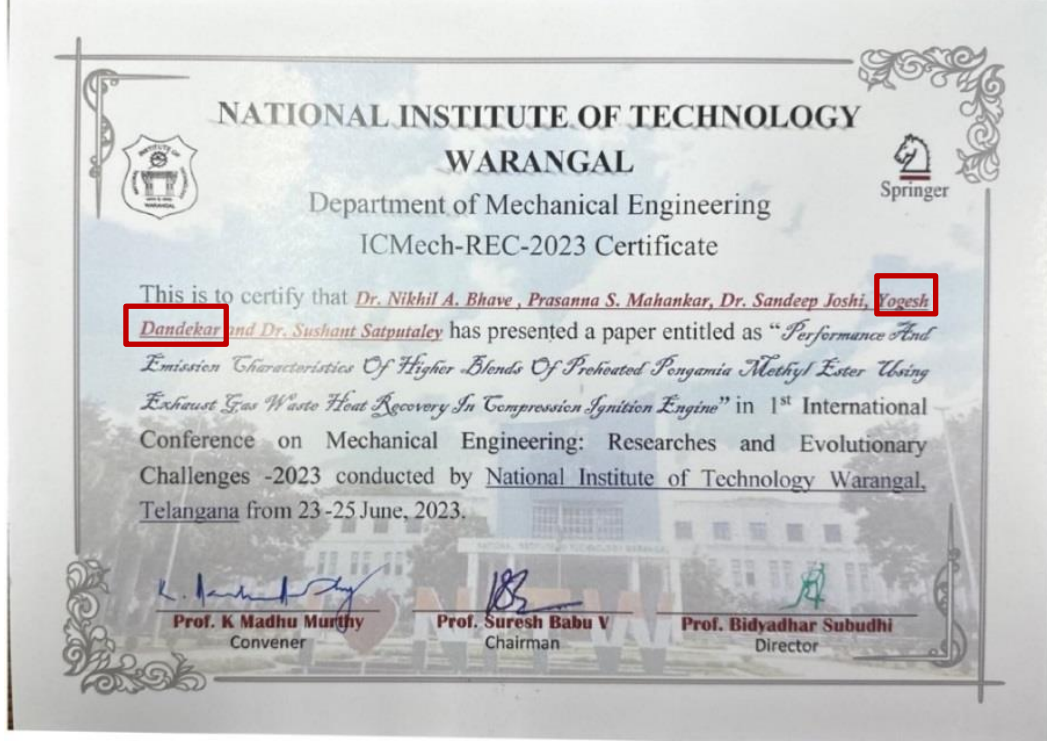


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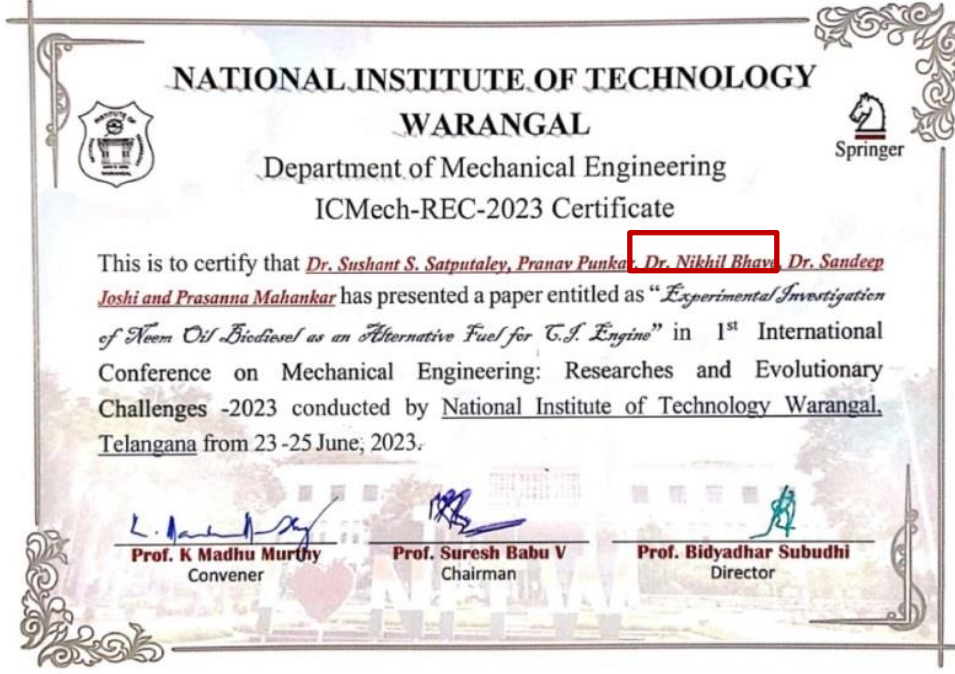


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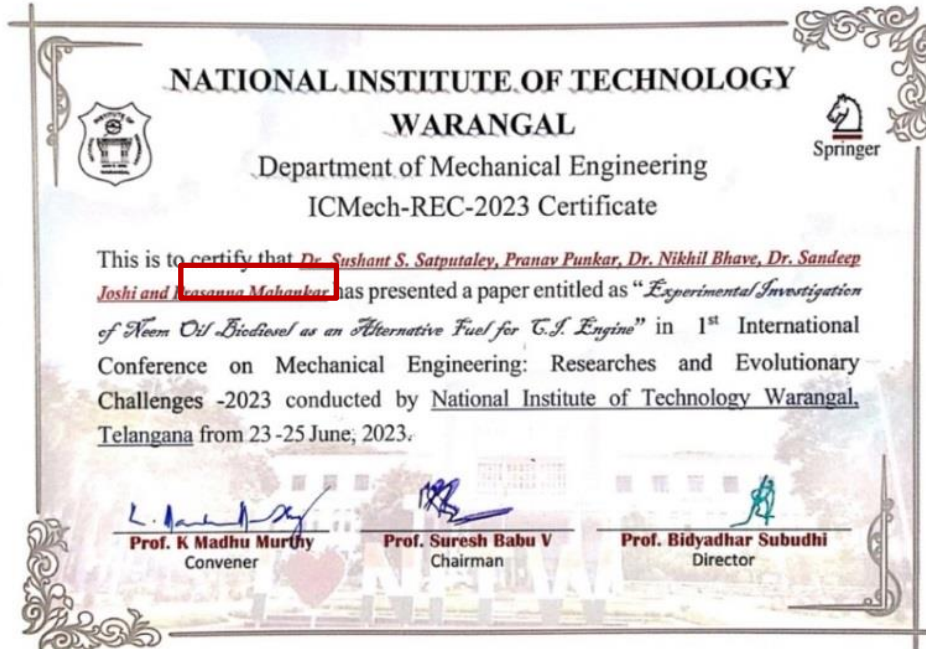


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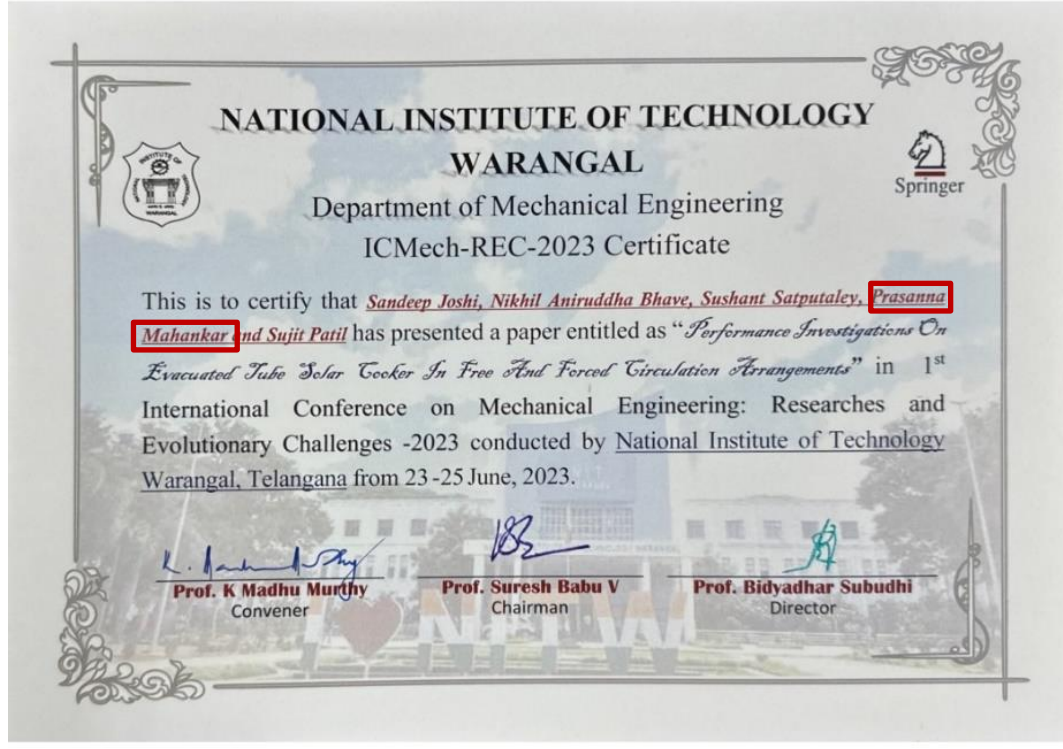


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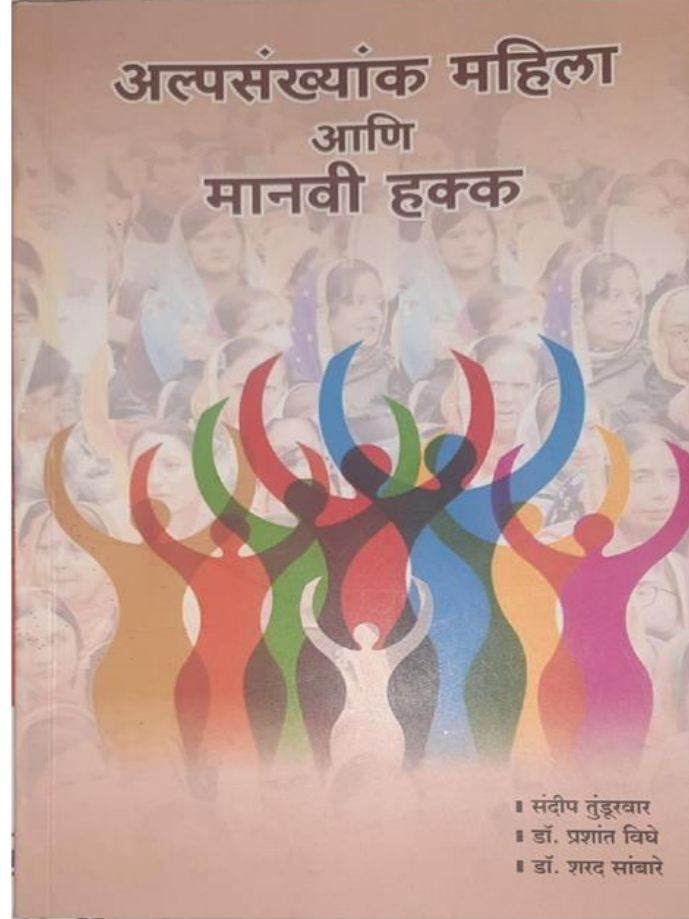
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Dr. Shubhangi Bompalliwar



Paper “**Minority Women's Discourse And Human Rights** presented in ‘National Conference on Minority Women and Human Rights’ by **Dr. Shubhangi Bompilwar (2023)**



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Paper “Minority Women's Discourse And Human Rights” presented in ‘National Conference on Minority Women and Human Rights’ by Dr. Shubhangi Bompilwar (2023)



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संदीप तुंडूरवार

राज्यशास्त्र विभाग प्रमुख, श्री बिंझाणी नगर महाविद्यालय, नागपूर

डॉ. शुभांगी बोंपीलवार

कमिन्स कॉलेज ऑफ इंजिनियरिंग विमेन, नागपूर

डॉ. राम बुटले

कला व वाणिज्य महाविद्यालय, बोरीअरब, जि. यवतमाळ

विषय प्रवेश

अल्पसंख्यांक संकल्पना सामाजिक आशयाच्या दृष्टीने अध्ययनापुरती मर्यादित असून धर्माच्या लोकसंख्येला घेऊन राजकीय अर्थाने वापरण्यात आलेली आहे. मुळातूनच जगभरात व सर्वच राजकीय व्यवस्थेत असे धर्म आधारित विभाजन दिसते. धार्मिक आधारावर आकारास आलेल्या देशात बहुसंख्य-अल्पसंख्यांक हा भेद राजकीय न राहता तो धर्मआधारित असतो. तर धर्मनिरपेक्ष देशात त्याचे

राजकीयीकरण केले जाऊन एक प्रकारे अल्पसंख्यांक समुदाय संविधानापेक्षा बहुसंख्यांकाच्या दयेवर जगत असतो हे भासविण्याचा प्रयत्न सदोदित होतो. साम्यवादी व्यवस्था धर्माच्या भेदभावावर किती नकारघंटा वाजवीत असल्या तरी स्थानिक बहुसंख्यांकांचा आधार गमविण्याच्या भीतीतून अल्पसंख्यांकावर राजकीय बंधने आणून त्यावर आसुड ओढत असतात. यातील पहिल्या गटात इस्लामिक व ख्रिश्चन राष्ट्र आहेत. दुसऱ्या गटात जगभरातील लोकशाहीवादी सशक्त व्यवस्था ज्यामध्ये अमेरिका, इंग्लंड फ्रान्स ऑस्ट्रेलिया, भारत आहे तर तिसरी वर्गवारी चीन, रशिया, क्युबा यांची आहे. चीनमधील उगुर मुस्लिम समुदायाच्या बाबतीत चीन ज्या रीतीने प्रश्न हाताळतांना दिसतो ते पाहता अल्पसंख्यांक समुदायाला निर्दालन करण्याच्या योग्यतेचे ठरविले आहे. म्यानमारमधील रोहिंग्या मुस्लीमा बाबतचा दृष्टिकोन तसाच आहे तर रशियाने युक्रेन, पोलिश याबाबत बाळगलेला दृष्टिकोन वांशिकतेच्या आधारावर पाहू जाता अल्पसंख्यांक समुदाय म्हणून त्यांच्या बाबतीत क्रीय दर्शविणारा दिसतो. भारत सुद्धा बहुसंख्य-अल्पसंख्यांक या प्रश्नांची सोडवणूक संविधानाच्या साच्यातून करण्याचा प्रयत्न करित आलेला असला तरी

अल्पसंख्यांक महिला आणि मानवी हक्क

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Design of an Augmented Clustering Model using LEACH & PEGASIS for Low Complexity & High Network Lifetime

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Abstract

Document Sections

- I. Introduction
- II. Literature review
- III. Design of the proposed augmented clustering model using LEACH & PEGASIS for low complexity & high network lifetime
- IV. Results analysis & validation
- V. Conclusion and future work

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Keywords

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Abstract: Low energy clustering models are heart of wireless networks, which assist in reducing node-level power consumption via application of geometric identities. These models a... [View more](#)

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Abstract: Low energy clustering models are heart of wireless networks, which assist in reducing node-level power consumption via application of geometric identities. These models allow network designers to use the same configuration wireless network for a longer duration, thereby assisting in better network lifetime. A wide variety of system models are proposed for this, and it is observed that Low-energy adaptive clustering hierarchy (LEACH), and Power-Efficient Gathering in Sensor Information Systems (PEGASIS) provide lightweight and high efficiency clustering for wireless networks. But, both of them have their own shortcomings, which limits their real-time scalability. For instance, LEACH forms random & variable sized clusters which are distributed randomly and unevenly, and it uses node-to-cluster head (CH) communications even in cases where single hop communications are possible. While, PEGASIS, uses Greedy Algorithm for chain formation, which cannot find globally optimal cluster head, and it also assumes that all nodes have knowledge about other nodes in the network, due to which it cannot be applied to adhoc network scenarios. To remove these drawbacks from both the models, this paper proposes design of a novel augmented clustering method that combines advantage of both LEACH & PEGASIS (ACPL) to improve model scalability, while maintaining better energy efficiency. The model initially uses the node-discovery capabilities of LEACH for stochastic cluster head selection, and once all nodes are discovered, then PEGASIS is applied for chain formations. These chains are used for cluster-to-cluster communications, and intelligently decide when to directly communicate between node-to-base station depending upon distance & residual energy values. The combined model was tested on a wide variety of network deployments, and it was observed that the proposed was able to reduce energy consumption by 16% when compared with LEACH, 8.6% when compared with PEGASIS, and 9.3% when compare...

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Paper “Design of an Augmented Clustering Model Using LEACH and PEGASIS for Low Complexity and High Network Lifetime” presented in INCET 2022: 3rd IEEE International Conference on Emerging Technologies by Dr. Jaya Raut.



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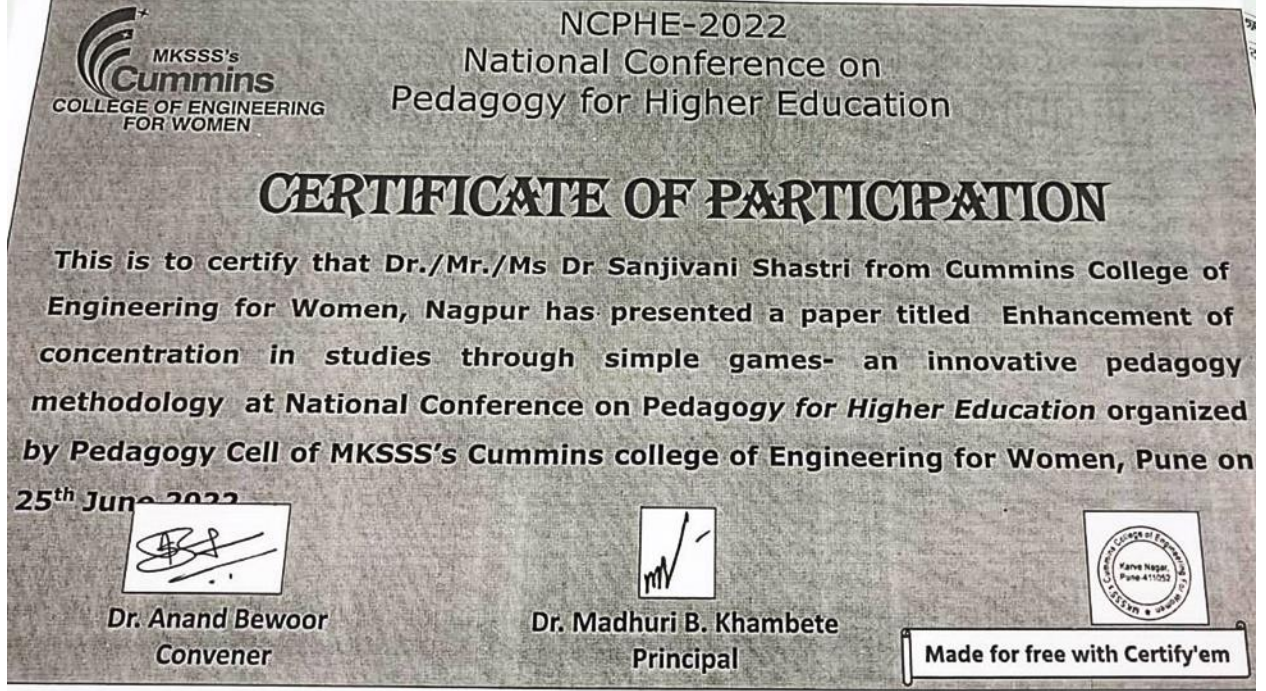


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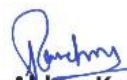



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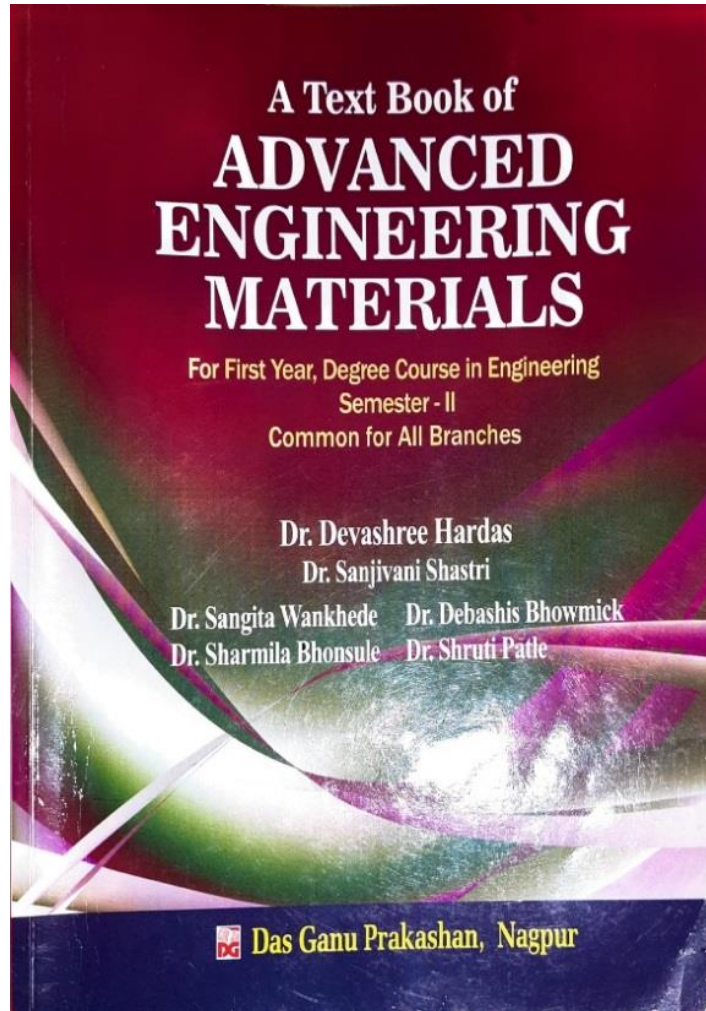


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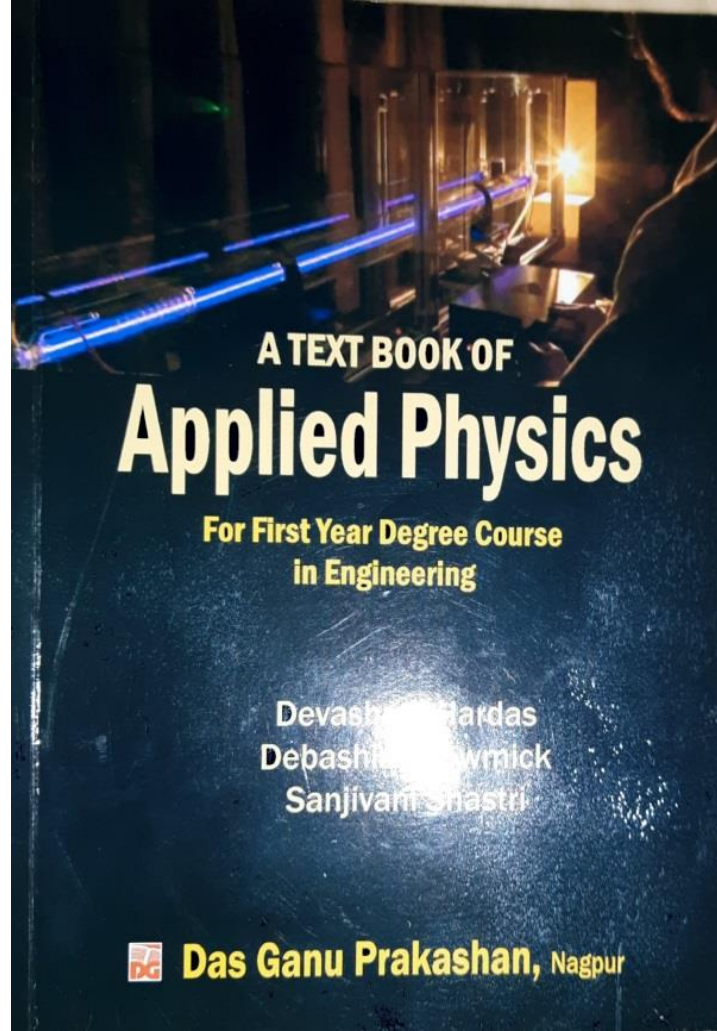


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A Review: Bio-fiber's as reinforcement in composites of polylactic acid (PLA)

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ABSTRACT

Due to its comparable thermo-mechanical properties to petroleum-based resins, the production of biopolymers has led to their rapid growth in recent years, especially in the automotive and construction industries. Because of its excellent mechanical properties and biodegradability, poly (lactic acid) (PLA) has achieved great commercial interest in the polymer industry among the biopolymers. Brittleness and high costs, though, hinder their use in a broad variety of applications. It is therefore a task for material scientists to change PLA by innovative technology. Reinforcement of bio-fiber or blending with other biodegradable products has proven to be an effective way to reduce the expense and fragility of PLA to produce completely biodegradable composite. Bio-fibers over synthetic fibers have low cost, low density, simple handling and equal mechanical properties. The major drawbacks of bio-fibers, though, are their hygroscopic existence and hydrophobic matrix incompatibility. Therefore, bio-fiber surface modifications are essential to enhance compatibility in order to maximize the efficiency of stress transfer between fiber and matrix.
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1. Introduction

The growing use of polymer composites dependent on gasoline has raised the "burden" on the climate. Growing awareness of the climate has driven companies and businesses to look for more environmentally friendly ingredients for their goods. Composites based on bio-fibers with polypropylene as a matrix substance, for example, are very common these days for automotive applications [1]. Scarce work is considered to have been devoted to the analysis of composites derived from plants with recycled polymer matrices, such as PLA, cellulose esters, etc. For this cause, from both scientific and environmental viewpoints, the research and development of biopolymer-based bio-fiber composites has become a field of great interest in materials science and technology studies [2]. For instance, biodegradable polymers such as PLA, starch and poly hydroxyl alkanates can be reinforced with bio-fibers to create composites that are environmentally friendly and biodegradable [3]. Bio-composites are biodegradable, organic and reusable, leading to the elimination of reliance on exhaustible petroleum

supplies and the environmental burden [4]. PLA's good mechanical properties and exceptional barrier efficiency can be used to generate appropriate biomaterials for a range of applications [5]. PLA's drawbacks, such as its intrinsic brittleness [6], water vulnerability and low-impact strength [7], can be properly improved by incorporating fibers and/or fillers, which is a handy way to improve the overall PLA polymer properties [8,9].

2. Bio-fibers

Bio-fibers, due to their versatility, eco-friendly design, low cost, renewability, local supply compared to synthetic fibers, are potential alternative materials for the composite industry [10]. Bio-fibers are generally considered organic and sustainable, but in truth they are neither green and sustainable as the plants from which bio-fibers are derived, but not the fibers themselves [11]. In addition, polymer composites incorporating bio-fibers have also been put at the forefront of industrial industries [12]. Annual production of bio-fibers and sources is shown in Table 1 [13] (see Figs. 1 and 2).

The plant based bio-fibers (lignocellulosic fibers) can be classified into seven major groups such as bast or stem fiber (Banana,

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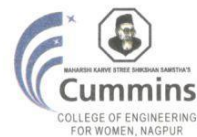


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