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 - 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

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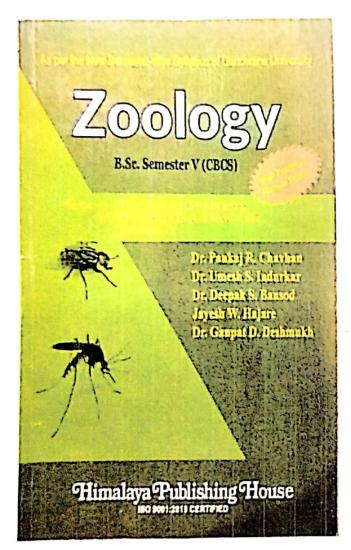
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Attachment

1. Copy of the cover page, content page and first page of the publication by the faculty year- wise with highlighted ISBN Number.

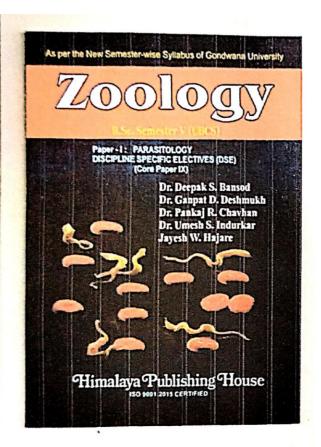


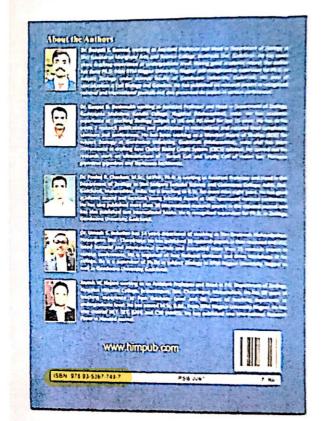
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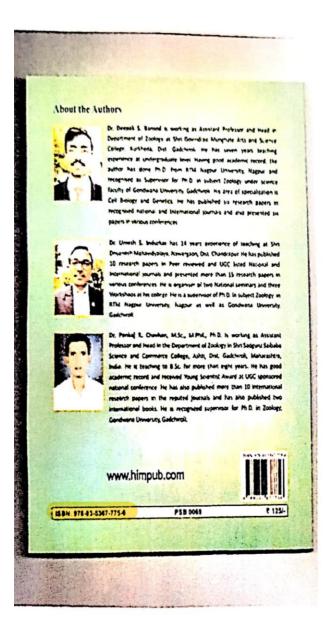


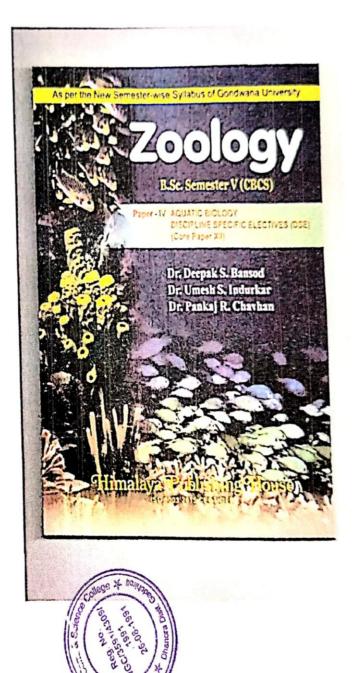












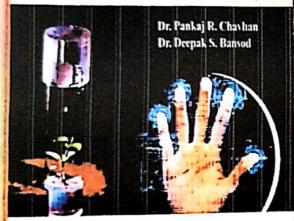


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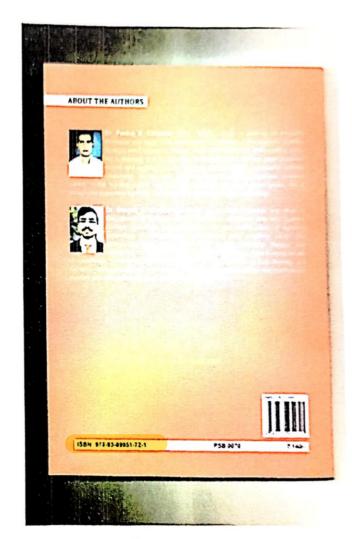
ZOOLOGY

B.Sc. Semester VI (CBCS)

Paper - II: ANIMAL BIOTECHNOLOGY
DISCIPLINE SPECIFIC ELECTIVES (DSE) (Core Paper XIV)



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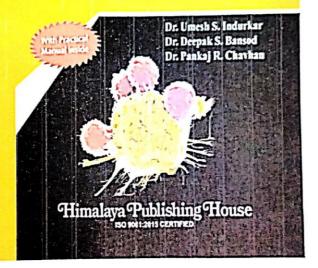
ISBN: 978-43-49951-45-1

PSB 0071

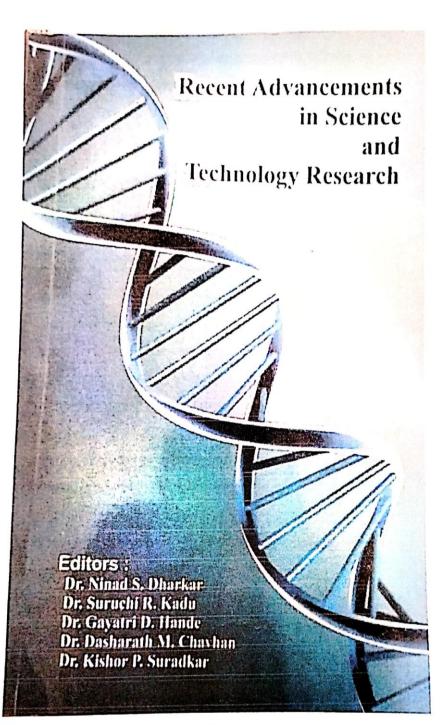
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B.Sc. Semester VI (CBCS)

Paper - 1: IMMUNOLOGY DISCIPLINE SPECIFIC ELECTIVES (DSE) (Core Paper XIII)









Published by

© Vidhan Publishing Company
Nalanda Colony, Bhimtekadi,
Amravati. 444 606
Mo. 9284733513
Email: vidhanpublishing@gmail.com

- I Recent Advancements in Science and Technology Research
- First Edition March 2022
- I ISBN -978-81-950858-9-7
- Price:
- Printer and Typist
 Atharv Graphics
 Amravati, Maharashtra
- I Cover Design Gajanan Dhole

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Chapter - 16

Avian Diversity of Chaparala Wildlife Sanctuary

Dr. Pankaj R. Chavhan, Dr. Sachin D Misar, Dr. P J Khinchi

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Chaprala Wildlife Sanctuary is encircled by the Pranhita River and is home to a variety of wild animals, including a few endangered species. There are 76 species of avian-fauna identified in Chaprala Wildlife Sanctuary, with three bird species listed as endangered. The goal of the field survey was to prepare the checklist and observe the biodiversity of birds. A total of 76 bird species from 39 families were identified. The Accipitridae family of birds is the most common. The study of bird fauna was starts from December 2011 to December 2012. Binoculars were used to make observations, and a Fujifilm finepix camera was used for photos.

The Chaprala wildlife sanctuary is located in the Gadchiroli district of Maharashtra, India (19°31'24.62"N 79° 49'37.35). The sanctuary is approximately 134.78 square kilometres in size. The majority of the area is covered with dense forest and Murgikunta tank, Raikonta tank, Wainganga river, Komatkunta tank, Chandankhedi nala, and other tanks and water bodies may be found nearby it.

The chaprala wildlife sanctuary, a haven for animals and endangered species. The land's flora is complemented by a dense canopy of vegetation, which is primarily made up of southern tropical dry deciduous forests. Teak, Arjun, Salai, Mahua, Ghoti, Bel, Dhawada,

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इतिहासकार डॉ. भालचंद्र रामचंद्र अंधारे (डि.लीट)

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इतिहास विभाग प्रमुख,

श्री जी.सी. पारील मुनमारे कला, वाणिज्य व विज्ञान महाविद्यालय, धानोग, जिल्हा - गडनिगेली

Reg No U74170 WIGE13 PTC 251705



Farshwardhan Publication Pvt.Ltd.

Pin 431126 (Maharashtra) Col 07588057695 05850203295 harshwardhanpub@gmail.com, vidyawarta@gmail.com



Shri J.S.P.M. Arts Comm. & Sci College Dhanora

इतिहासकार डॉ. भालचंद्र गमचंद्र अंधारे (डि.लीट)

इतिहासकार डॉ. भालचंद्र रामचंद्र अंघारे (डि.लीट)

- डॉ. प्रा. राजू पुंडिलक किरिमरे
- · Publisher:

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

Printed by:

Harshwardhan Publication Pvt.Ltd. Limbaganesh, Dist. Beed, Pin-431126 www.vidyawarta.com

- Page design & Cover : Shaikh Jahuroddin,Parli-V
- Edition: October 2020

ISBN

❖ Price: 149/-



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ISBN No. 978-81-960521-6-4

भारतीय स्वातंत्र्यसंग्राम आणि नेताजी संपादक डॉ. संतोष सुधाकरराव कोट्टरवार मो. 9860938138

प्रकाशक सिध्दी पब्लिकेशन हाऊस ६२४, बेलानगर, भावसार चौक, तरोडा (खु.) नांदेड ३ ४३१६०५ मो. ९६२३९७९०६७ E-mail: shrishprakashan२००९@gmail.com www.wiidrj.com

मुद्रक अनुपम प्रिटर्स , श्रीनगर, नांदेड (महा.) ९१७५३२४४३७

प्रथमावृत्ती : २३ जानेवारी २०२३

© सर्वाधिकार : संपादकाकडे

मुखपृष्ठ : तेजस रामपूरकर

अक्षरजुळवणी : डॉ. राजेश गं. उंबरकर

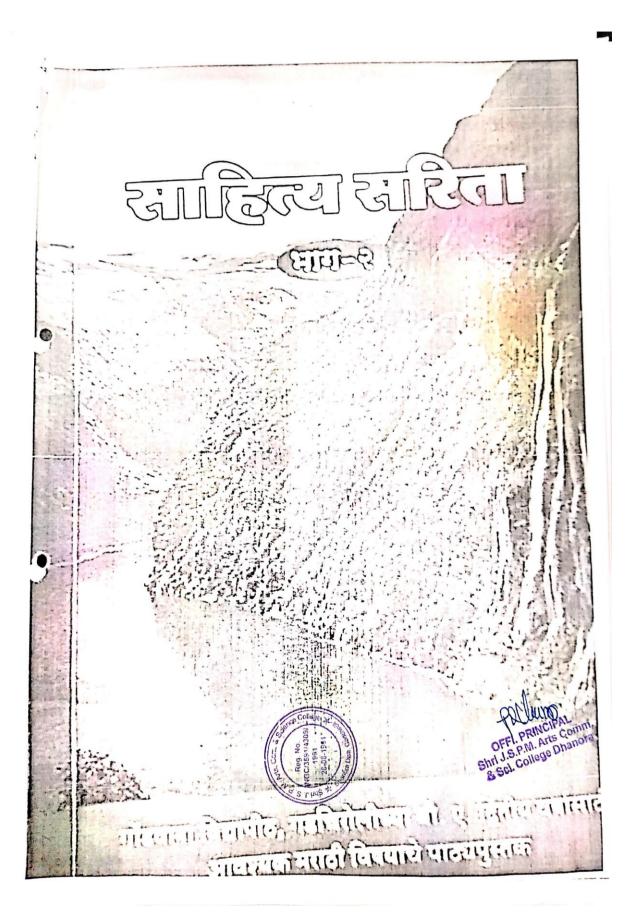
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सदरील ग्रंथातील कोणताही भाग किंवा मजकुराकरीता सदरील संशोधक स्वतः जबाबदार राहतील संपादक किंवा प्रकाशक जबाबदार असणार नाही.









साहित्य सरिता : भाग-२ : संपादक मंडळ, गाँडवाना कि

ISBN: 978-93-83132-70-6

आवृती : प्रथम २०१८

O तेखक

मूल्य : १ ८०-००

प्रकाशक :.

राघव पब्लिशसं ॲण्ड डिस्ट्रीब्युटसं राजविलास टॉकीज जवळ, महाल, नागप्र-४४० ०३२

Advanced Research in Material and Chemical Science Volume II

(ISBN: 978-81-953600-4-8)

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2021



First Edition: 2021

ISBN: 978-81-953600-4-8



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Published by:

Bhumi Publishing,

Nigave Khalasa, Kolhapur 416207, Maharashtra, India

Website: www.bhumipublishing.com

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Advanced Research in Material and Chemical Science (Volume II) (ISBN: 978-81-953600-4-8)

DIMENSIONS OF GREEN CHEMISTRY

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Introduction:

The idea of greening science created in the business and administrative networks as a characteristic development of contamination counteraction drives. In our endeavors to further develop crop assurance, business items and medications, we additionally made accidental damage our planet and people.

By the mid-twentieth century, a portion of the drawn out adverse consequences of these progressions couldn't be disregarded. Contamination stifled a large number of the world's streams and corrosive downpour crumbled woods wellbeing. There were quantifiable openings in the world's ozone. A few synthetic compounds in like manner use were associated with causing or straightforwardly connected to human malignant growth and other antagonistic human and ecological wellbeing results. Numerous administrations started to manage the age and removal of mechanical squanders and discharges. The United States shaped the Environmental Protection Agency (EPA) in 1970, which was accused of ensuring human and natural wellbeing through setting and upholding ecological guidelines.

Green science makes the EPA's command a stride further and makes another reality for science and designing by requesting that scientific experts and architects plan synthetic compounds, substance cycles and business items in a way that, at any rate, maintains a strategic distance from the production of toxics and waste.

Green Chemistry isn't governmental issues. Green Chemistry is certifiably not an advertising ploy. Green science isn't an unrealistic fantasy.

We can foster synthetic cycles and earth-accommodating items that will forestall contamination in any case. Through the act of green science, we can make options in contrast to dangerous substances. We can plan compound cycles that decrease squander and lessen request on reducing assets. We can utilize measures that utilization more modest measures of energy. We

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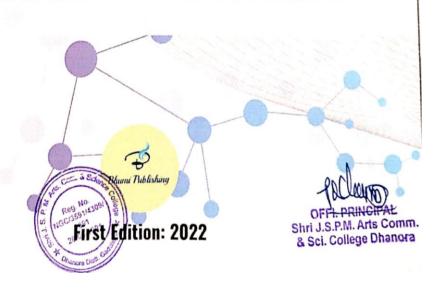
ISBN: 978-93-91768-58-4

Advances in Material Science Volume I

Editors

Dr. Vijayalakshmi A. R. Dr. Nimish H. Vasoya

Dr. Shakuntala A. Shinde Dr. Radhika Deshmukh



Advances in Material Science

Volume I

(ISBN: 978-93-91768-58-4)

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2022



First Edition: 2022

ISBN: 978-93-91768-58-4



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Published by:

Bhumi Publishing,

Nigave Khalasa, Kolhapur 416207, Maharashtra, India

Website: www.bhumipublishing.com
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Book Available online at:

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ELASTICITY OF MATERIALS

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Introduction:

In material science, elasticity is the ability of a body to resist a distorting influence and to return to its original shape and size when the force is removed. When an external unbalanced force is applied to a body; it gets deformed due to relative displacement of molecules. Due to this relative displacement of molecules, forces are developed inside the body which tends to oppose the deforming forces. If the deforming forces acting on the body are removed then the body is acted upon by internal elastic forces developed within the body which try to restore to its original dimensions. Solid objects will deform when adequate load are applied to them, if material elastic, the objects will return to its initial shape and size. Some bodies which return exactly to its original dimensions after removal of deforming forces are called perfectly elastic bodies. The reasons for elastic behavior are different for different materials.

Hooke's Law of Elasticity:

In 1676 Robert Hooke Physicist from U.K. discovered a relationship between stress and strain and has given fundamental law of elasticity. This relation is known as Hook's Law of elasticity.

It states that within the elastic limit, the force required to deform elastic body is directly proportional to the distance of deformation, regardless of how large that distance becomes.

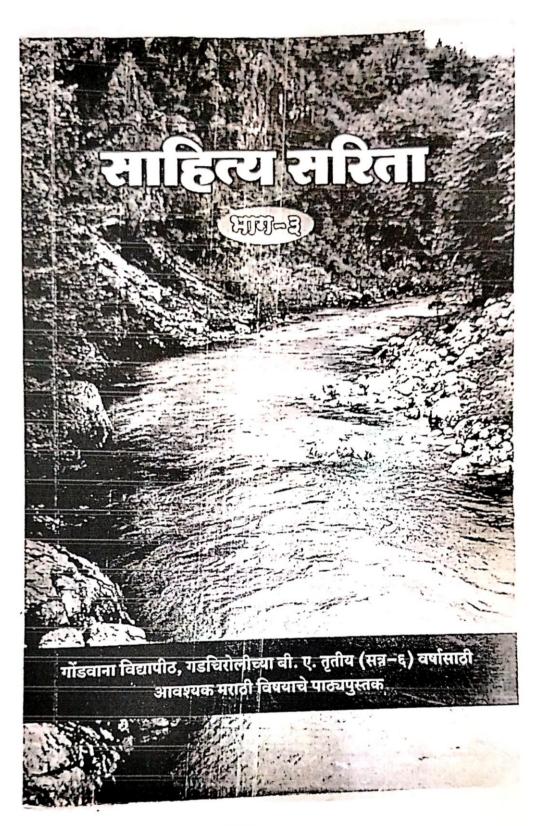
Elastic moduli:

In engineering the elasticity of material is quantified by the elastic modulus. Such as the Young's modulus, (Y) Bulk modulus, (K) and Modulus of rigidity (n) which measure the amount of stress required to achieve a unit of strain. Higher modulus shows that the material is harder to deform.

Young's modulus (Y):

The modulus of elasticity which is related to change in length of a body is called Young's

modulus of elasticity.





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> संपादक मंडळ्ळ कुल देशे, पोस्ट ऑडील कुले नामिक्सी-१42605 M.342212885; डॉ. सुदर्शन दिवसे

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साहित्य सरिता : भाग-३ (सत्र-६) : संपादक मंडळ, गोंडवाना विद्यापीठ, गडचिरोली

ISBN: 978-93-83132-89-8

आवृत्ती : प्रथम २०१९

© लेखक

मूल्य : ₹ ७०-००

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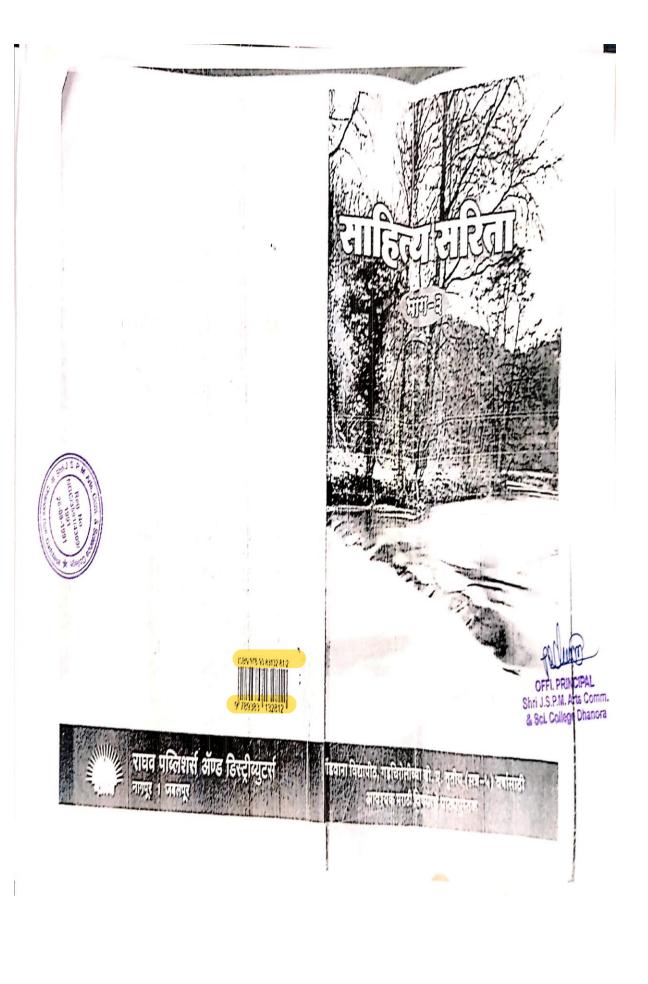
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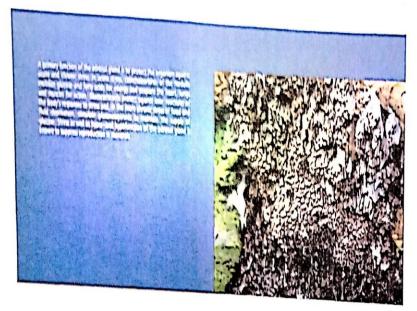
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He has 6 years teaching experience and 10 years research experience. He attended and presented research repert in National and International peer reviewed journals.



A. 17. Sept. 1. Sept.

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