



Ujjwal Bahu-Uddeshiya Sanstha, Nagpur

College code- 401

D.D. BHOYAR COLLEGE OF ARTS AND SCIENCE, MOUDA

Tah.: Mouda, Dist.: Nagpur, Pin - 441104

Affiliated to RTM Nagpur University, Nagpur, Approved by Government of Maharashtra


Email : dd.bhojar@rediffmail.com Website : ddbhojar.ac.in

Tel : 07115 - 281979 Mob. : 9158003321

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during academic session 2022-23.

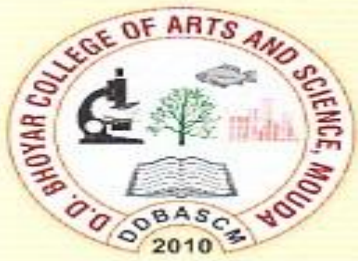
Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Dr. S. V. Khudale	Biomechanics in Physics Education	NA	NA	NA	NA	2022	9789393781123	D. D. Bhoyar College of Arts and Science, Mouda	Sports Publication
2	Dr. S. V. Khudale	History and Foundation of Physical Education	NA	NA	NA	NA	2022	9789390974986	D. D. Bhoyar College of Arts and Science, Mouda	Sports Publication
3	Dr. S. V. Khudale	Measurement and Evaluation in Physical Education	NA	NA	NA	NA	2022	9789390974900	D. D. Bhoyar College of Arts and Science, Mouda	Sports Publication
4	Dr. S. V. Khudale	Sports Sociology	NA	NA	NA	NA	2022	9789393781031	D. D. Bhoyar College of Arts and Science, Mouda	Sports Publication
5	Dr. S. V. Khudale	Fitness and Wellness in Physical Education	NA	NA	NA	NA	2022	9789393781147	D. D. Bhoyar College of Arts and Science, Mouda	Sports Publication
6	Mr. Vaibhav Zade	Zoology B.Sc.Sem V	NA	NA	NA	NA	2022	978-93-95008-17-4	D. D. Bhoyar College of Arts and Science, Mouda	Sai Jyoti Publication

7	Dr. Paritosh Dolas	S-Type spaces for offset Fourier-Mellin (OFMT) transform	NA	NA	NA	NA	2022	978-93- 94661-01-1	D. D. Bhoyar College of Arts and Science, Mouda	DnyanPath
---	--------------------------	--	----	----	----	----	------	-----------------------	--	-----------


 IQAC Coordinator
I.Q.A.C. Coordinator
 D.D. Bhoyar College Of Arts & Science
 Mouda, Dist. Nagpur




 Principal
PRINCIPAL
 D. D. BHOYAR COLLEGE OF ARTS & SCIENCE
 MOUDA



Ujjwal Bahu-Uddeshiya Sanstha, Nagpur

College code- 401

D.D. BHOYAR COLLEGE OF ARTS AND SCIENCE, MOUDA

Tah.: Mouda, Dist.: Nagpur, Pin - 441104

Affiliated to RTM Nagpur University, Nagpur, Approved by Government of Maharashtra


Email : dd.bhoayar@rediffmail.com Website : ddbhoayar.ac.in

Tel : 07115 - 281979 Mob. : 9158003321

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during academic session 2021-22.

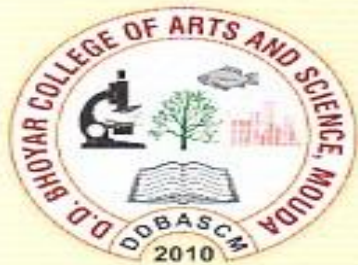
Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Dr. S. Y. Mullemwar	Interdisciplinary Research and Innovation	NA	NA	NA	NA	2021	978-81-947154-6-7	D. D. Bhoyar College of Arts and Science, Mouda	JPS Scientific Publication, Tamilnadu, India
2	Dr. S. Y. Mullemwar	Recent Advancement of Mathematics in Science and Technology	NA	NA	NA	NA	2021	978-81-950475-0-5	D. D. Bhoyar College of Arts and Science, Mouda	JPS Scientific Publication, Tamilnadu, India
3	Dr. S. Y. Mullemwar	University Physics Volume-1	NA	NA	NA	NA	2021	9789391322816	D. D. Bhoyar College of Arts and Science, Mouda	Allience & Co.
4	Dr. S. Y. Mullemwar	Physics B.Sc. Sem II	NA	NA	NA	NA	2021	978-93-91201-14-2	D. D. Bhoyar College of Arts and Science, Mouda	Sai Jyoti Publication

5	Dr. S. Y. Mullemwar	NA	Investigations on structural, photo-physical and photometric parameters of metal based quinine complexes for OLEDs	Journal of Physics: Conference Series	International Conference on Research Frontiers in Sciences (ICRFS 2021)	International	2021	1742-6596	D. D. Bhojar College of Arts and Science, Mouda	IOP Publishing
6	Dr. Paritosh Dolas	Analysis of Mathematical sciences and its application	NA	NA	NA	NA	2021	978-81-47154-8-1	D. D. Bhojar College of Arts and Science, Mouda	JPS Scientific publication, Tamilnadu


 IQAC Coordinator
I.Q.A.C. Coordinator
 D.D. Bhojar College Of Arts & Science
 Mouda, Dist. Nagpur




 Principal
PRINCIPAL
 D. D. BHOYAR COLLEGE OF ARTS & SCIENCE
 MOUDA



D.D. BHOYAR COLLEGE OF ARTS AND SCIENCE, MOUDA

Tah.: Mouda, Dist.: Nagpur, Pin - 441104

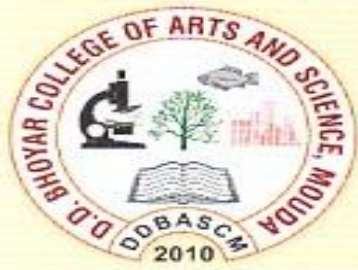
Affiliated to RTM Nagpur University, Nagpur, Approved by Government of Maharashtra

Email : dd.bhojar@rediffmail.com Website : ddbhojar.ac.in

Tel : 07115 - 281979 Mob. : 9158003321

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher academic session 2020-21.

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Dr. S. Y. Mullemwar	Investigations on Tunable Blue Light Emitting P-Acetyl Biphenyl-DPQ Phosphor for OLED Applications	NA	NA	NA	NA	2020	9780429025334	D. D. Bhojar College of Arts and Science, Mouda	CRC Press
2	Dr. S. Y. Mullemwar	Industrial People Management Vol-II	NA	NA	NA	NA	2020	978-81-947377-6-6	D. D. Bhojar College of Arts and Science, Mouda	Saliha Publications, Tamil Nadu, India
3	Dr. S. Y. Mullemwar	Joy of Engineering and Management Volume II	NA	NA	NA	NA	2020	978-81-947377-2-8	D. D. Bhojar College of Arts and Science, Mouda	Saliha Publications, Tamil Nadu, India
4	Prof. Swapnil Kamble	NA	Survey of non timber forest products (ntfps) from north gadchiroli villages of maharashtra.	International journal of researches in biosciences, agriculture		National	2020	2347-517X	Department of Botany, D. D. Bhojar College of Arts and Science, Mouda, Dist. Nagpur (M.S.)	NA



Ujjwal Bahu-Uddeshiya Sanstha, Nagpur

D.D. BHOYAR COLLEGE OF ARTS AND SCIENCE, MOUDA

Tah.: Mouda, Dist.: Nagpur, Pin - 441104


Affiliated to RTM Nagpur University, Nagpur, Approved by Government of Maharashtra

Email : dd.bhojar@rediffmail.com Website : ddbhojar.ac.in

Tel : 07115 - 281979 Mob. : 9158003321

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher academic session 2019-20.

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Prof. M. Bhoyar	NA	E-Resource Manegment	Reinventing Academic Libraries Vol. 1	RALNESD ACO 2020	National	2019	978-81-94486-66-4	Department of Botany, D. D. Bhoyar College of Arts and Science, Mouda, Dist. Nagpur (M.S.)	NA

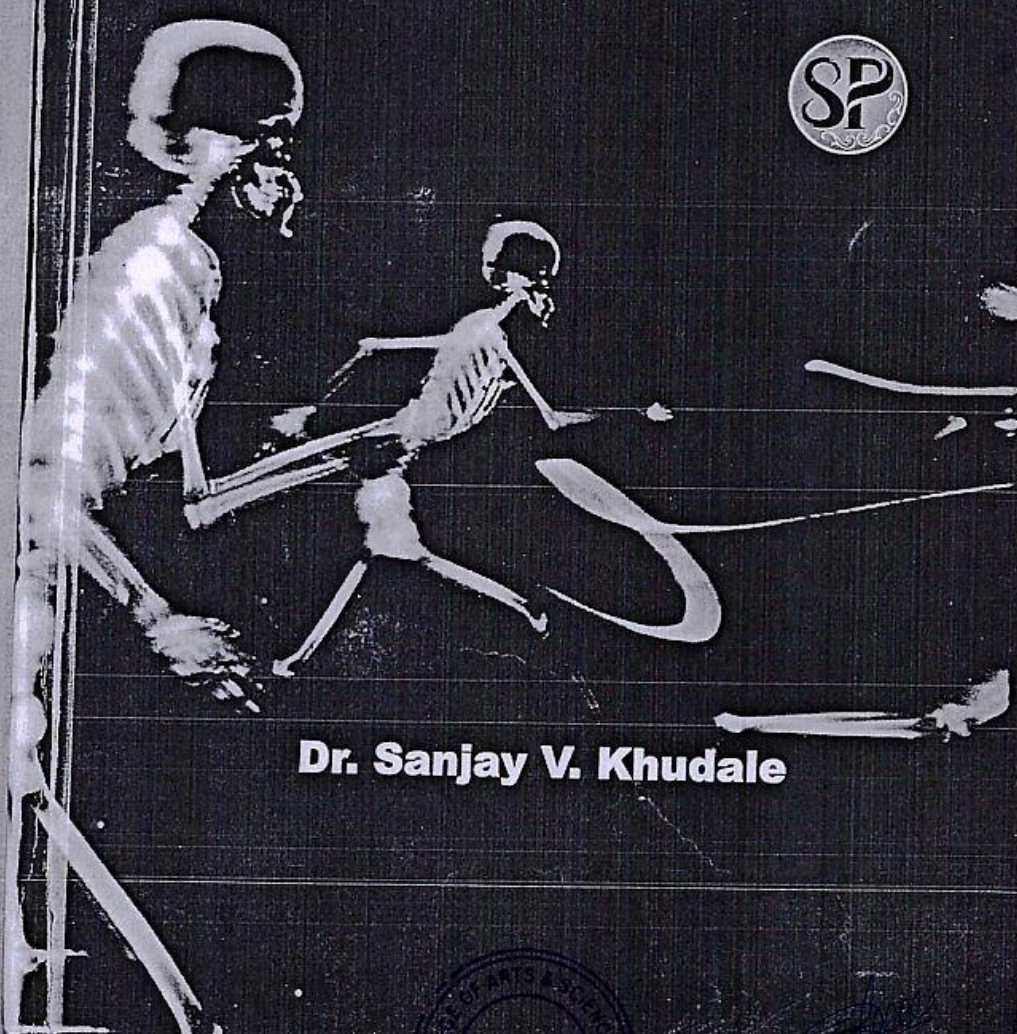

IQAC Coordinator
I.Q.A.C. Coordinator
D.D. Bhoyar College Of Arts & Science
Mouda, Dist. Nagpur




Principal
PRINCIPAL
D. D. BHOYAR COLLEGE OF ARTS & SCIENCE
MOUDA

2022-23

Biomechanics in Physical Education



Dr. Sanjay V. Khudale



PRINCIPAL
D. D. BHATNAGAR COLLEGE OF ARTS & SCIENCE
BOUDA

Biomechanics in Physical Education

Edited by

Dr. Sanjay V. Khudale
Principal

D. D. Bhojar College of arts and science Mouda.
Nagpur, Maharashtra



SPORTS PUBLICATION
Publisher & Distributor

India's First Publisher & Asia's No. 1 Stockist of
Physical Education & Sports Books

7/26, Ground Floor, Ansari Road, Daryaganj, New Delhi-110002
Mobile No.: +91-9999146721, 9868028838 || Land Line No.: 011-65749511, 23240261
info@sportspublication.net || www.sportspublication.net



Sanjay V. Khudale
PRINCIPAL

D. D. BHOJAR COLLEGE OF ARTS & SCIENCE
MOUDA

Published by:



SPORTS PUBLICATION
Publisher & Distributor

India's First Publisher & Asia's No. 1 Stockist of
Physical Education & Sports Books
7/26, Ground Floor, Ansari Road, Daryaganj, New Delhi-110002
Mobile No.: +91-9999146721, 9868028838
Land Line No.: 011-65749511, 23240261
info@sportspublication.net || www.sportspublication.net

© Publisher

ISBN : 978-93-93781-12-3

FIRST EDITION : 2022

PRINTED IN INDIA

All Rights Reserved

No part of this publication may be stored in a retrieval system, transmitted, or reproduced in any way, including but not limited to photocopy, photograph, magnetic or other record, without the prior agreement and written permission of the publisher.

Printed by:

OM SAI PRINTERS AND BINDERS, DELHI

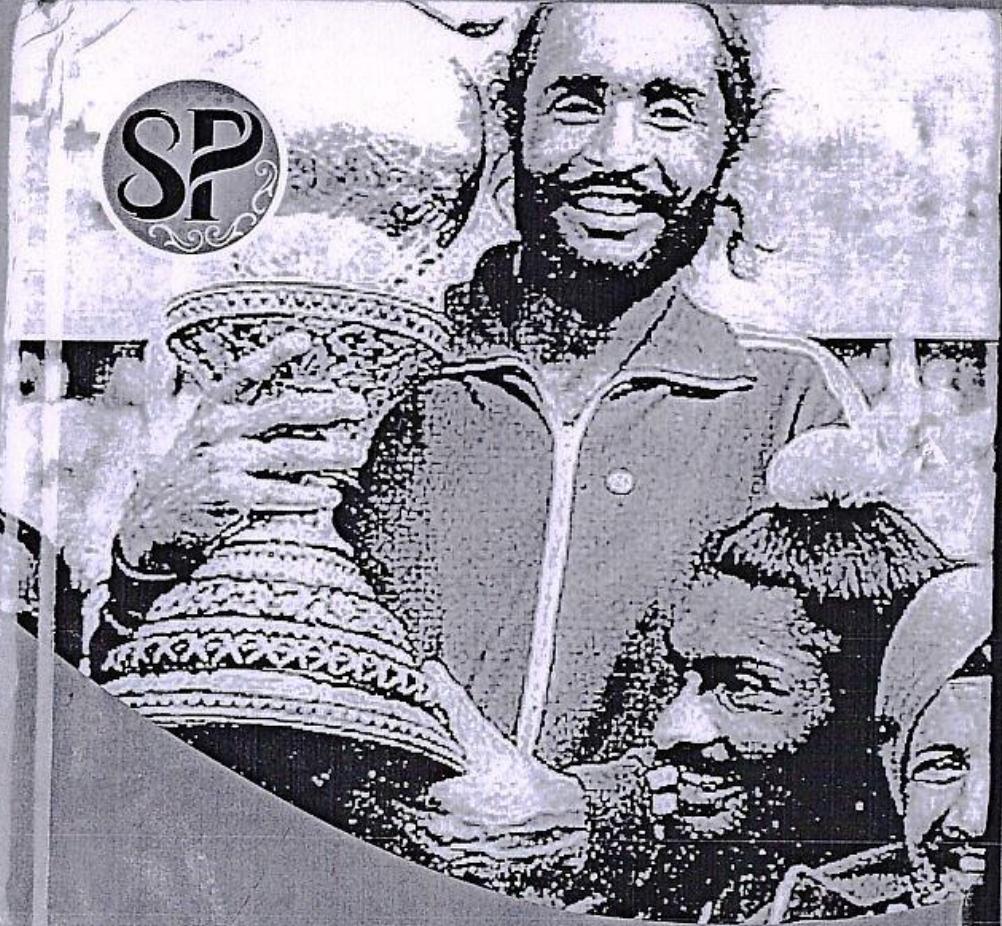
Price: Rs. 800/-

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.



[Signature]
PRINCIPAL

D. D. BHOYAR COLLEGE OF ARTS & SCIENCE
MOUDA



HISTORY AND FOUNDATION OF PHYSICAL EDUCATION

Dr. Sanjay V. Khudale



PRINCIPAL
D. D. BHOJAR COLLEGE OF ARTS & SCIENCE
MOUDA

History and Foundation of Physical Education

Edited & Compiled by
Dr. Sanjay V. Khudale
The Principal
D. D. Bhoyar College of Arts and Science Mouda,
Nagpur, Maharashtra



SPORTS PUBLICATION
Publisher & Distributor

India's First Publisher & Asia's No. 1 Stockist of
Physical Education & Sports Books
7/26, Ground Floor, Ansari Road, Daryaganj, New Delhi-110002
Mobile No.: +91-9999146721, 9868028838 || Land Line No.: 011-65749511, 23240261
info@sportspublication.net || www.sportspublication.net



[Signature]
PRINCIPAL
D. D. BHOYAR COLLEGE OF ARTS & SCIENCE
MOUDA

Published by:



SPORTS PUBLICATION
Publisher & Distributor

India's First Publisher & Asia's No. 1 Stockist of
Physical Education & Sports Books
7/26, Ground Floor, Ansari Road, Daryaganj, New Delhi-110002
Mobile No.: +91-9999146721, 9868028838
Land Line No.: 011-65749511, 23240261
info@sportspublication.net || www.sportspublication.net

© Publisher

ISBN : 978-93-90974-98-6

FIRST EDITION : 2022

PRINTED IN INDIA

All Rights Reserved

No part of this publication may be stored in a retrieval system, transmitted, or reproduced in any way, including but not limited to photocopy, photograph, magnetic or other record, without the prior agreement and written permission of the publisher.

Printed by:

OM SAI PRINTERS AND BINDERS, DELHI

Price: Rs. 800/-



[Signature]
PRINCIPAL
O. D. BHOJAP COLLEGE OF ARTS & SCIENCE
MYSORE



Measurement and Evaluation in Physical Education

Dr. Sanjay V. Khudale



[Signature]
PRINCIPAL
D. D. BHOJAR COLLEGE OF ARTS & SCIENCE
MOUDA

Published by:



SPORTS PUBLICATION
Publisher & Distributor

India's First Publisher & Asia's No. 1 Stockist of
Physical Education & Sports Books
7/26, Ground Floor, Ansari Road, Daryaganj, New Delhi-110002
Mobile No.: +91-9999146721, 9868028838
Land Line No.: 011-65749511, 23240261
info@sportspublication.net || www.sportspublication.net

© Publisher

I.S.B.N: 978-93-90974-90-0

PRINTED IN INDIA

First Edition : 2022

All Rights Reserved

No part of this publication may be stored in a retrieval system, transmitted, or reproduced in anyway, including but not limited to photocopy, photograph, magnetic or other record, without the prior agreement and written permission of the publisher.

Laser Typeset by:
Sports Printographics
7/26, Ground Floor, Ansari Road, Daryaganj
New Delhi-110002

Printed by:
TRIDENT ENTERPRISES,
New Delhi.

Price: ₹ 700/-

en
ne
to
art
wi
ex
ph
val
in
ex
Gr
sy
ex
be
th

p
De

us
fur



[Signature]
PRINCIPAL
D. D. BHOJAR COLLEGE OF ARTS & SCIENCE
YOIDA

Measurement and evaluation in Physical education

Edited & Compiled by

Dr. Sanjay V. Khudale

The Principal

D. D. Bhoyar College of arts and science Mouda,
Nagpur, Maharashtra



SPORTS PUBLICATION
Publisher & Distributor

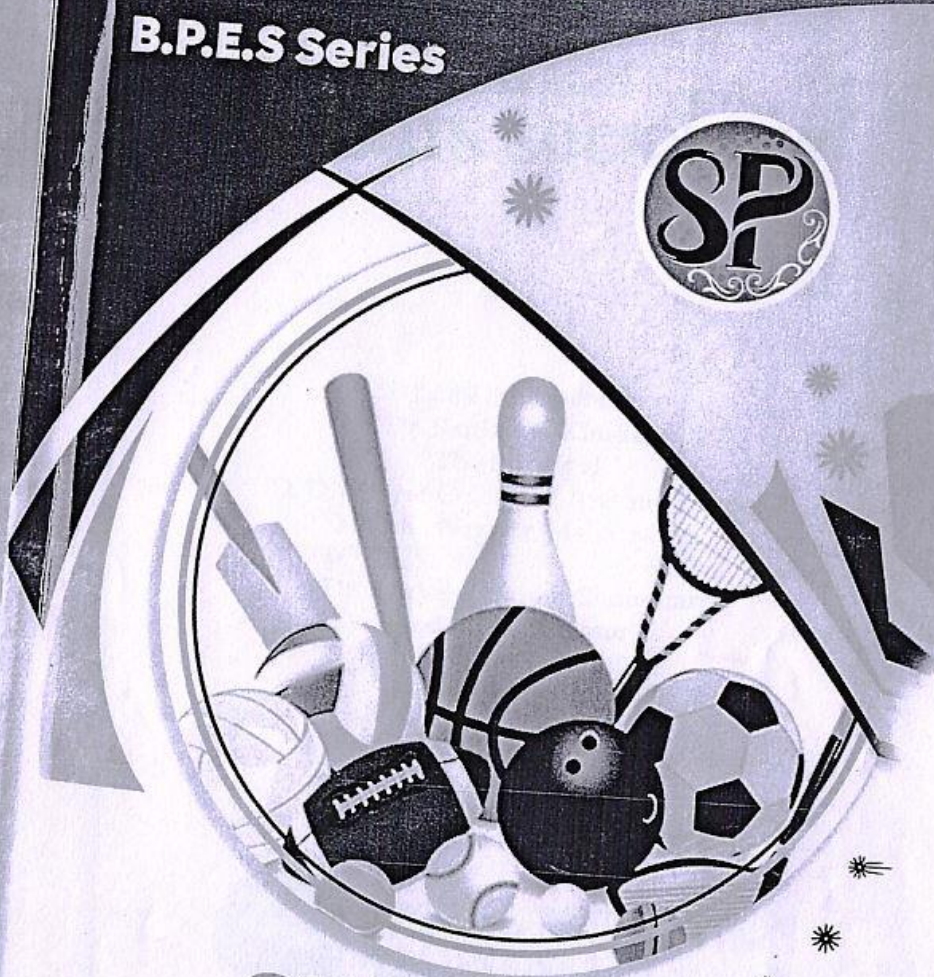
India's First Publisher & Asia's No. 1 Stockist of
Physical Education & Sports Books
7/26, Ground Floor, Ansari Road, Daryaganj, New Delhi-110002
Mobile No.: +91-9999146721, 9868028838 || Land Line No.: 011-65749511, 23240261
info@sportspublication.net || www.sportspublication.net



Sanjay V. Khudale
PRINCIPAL

D. D. BHOYAR COLLEGE OF ARTS & SCIENCE
MOUDA

B.P.E.S Series



SPORTS SOCIOLOGY

Dr. Sanjay V. Khudale | Dr. Sanjay Rajaram Choudhari



[Signature]
PRINCIPAL

D. D. BHOJAR COLLEGE OF ARTS & SCIENCE



Fitness and Wellness in Physical Education



Dr. Sanjay V. Khudale



[Signature]
PRINCIPAL
D. D. BHOJAP COLLEGE OF ARTS & SCIENCE
NOIDA

Fitness and Wellness in Physical Education

Edited by

Dr. Sanjay V. Khudale
Principal

D. D. Bhojar College of arts and science Mouda.
Nagpur, Maharashtra



SPORTS PUBLICATION
▶ Publisher & Distributor ▶

India's First Publisher & Asia's No. 1 Stockist of
Physical Education & Sports Books

7/26, Ground Floor, Ansari Road, Daryaganj, New Delhi-110002
Mobile No.: +91-9999146721, 9868028838 || Land Line No.: 011-65749511, 23240261
info@sportspublication.net || www.sportspublication.net



Sanjay V. Khudale
PRINCIPAL

G. D. BHOJAR COLLEGE OF ARTS & SCIENCE
MOUDA

Published by:



SPORTS PUBLICATION
Publisher & Distributor

India's First Publisher & Asia's No. 1 Stockist of
Physical Education & Sports Books
7/26, Ground Floor, Ansari Road, Daryaganj, New Delhi-110002
Mobile No.: +91-9999146721, 9868028838
Land Line No.: 011-65749511, 23240261
info@sportspublication.net || www.sportspublication.net

© Publisher

ISBN : 978-93-93781-14-7

FIRST EDITION : 2022

PRINTED IN INDIA

All Rights Reserved

No part of this publication may be stored in a retrieval system, transmitted, or reproduced in any way, including but not limited to photocopy, photograph, magnetic or other record, without the prior agreement and written permission of the publisher.

Printed by:

OM SAI PRINTERS AND BINDERS, DELHI

Price: Rs. 800/-

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.



[Signature]
PRINCIPAL

D. D. BHOJAP COLLEGE OF ARTS & SCIENCE
BOUDA

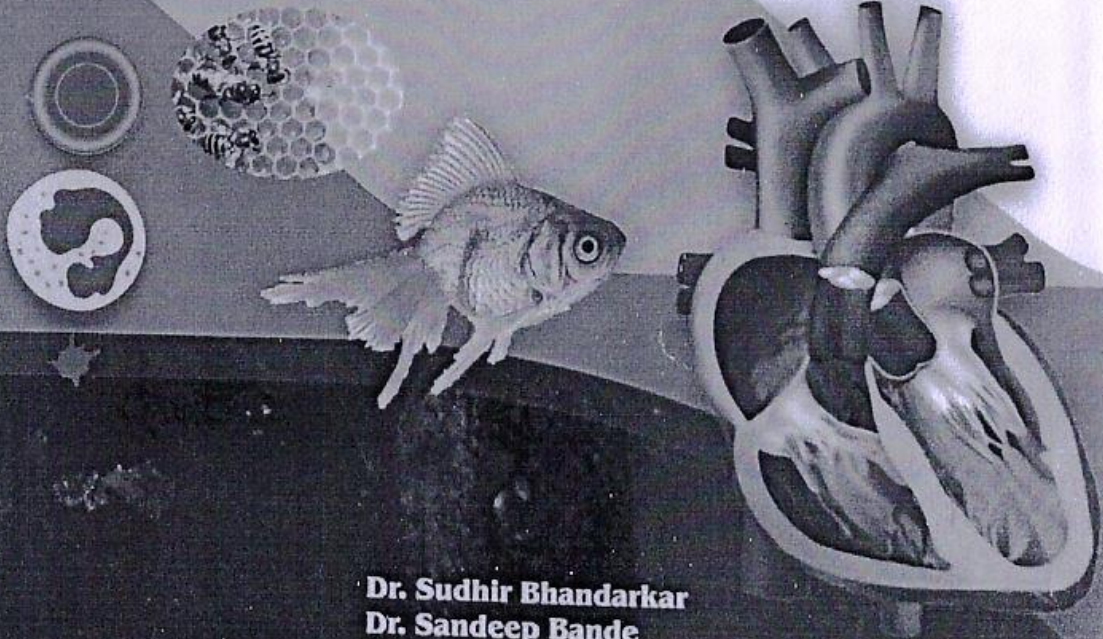
As per the New Semester wise Syllabus(2022-23) of Rashtrasant Tukadoji Maharaj
Nagpur University, Nagpur.

A Text book of
ZOOLOGY
B. Sc. Semester - V

With
PRACTICAL
Manual

Paper-IX: General Mammalian Physiology - I

Paper-X: Applied Zoology -I (Aquaculture and Economic Entomology)



Dr. Sudhir Bhandarkar
Dr. Sandeep Bande
Dr. Gopal Paliwal
Mr. Vaibhav Zade

SAI JYOTI PUBLICATION

SJP

The way of Light

● Nagpur ● Pune ● Delhi



PRINCIPAL
D. D. BHOYAR COLLEGE OF ARTS & SCIENCE
MOUDA

As per the Semester-wise Revised Syllabus (2022-23) of Rashtrasant Tukadoji Maharaj
Nagpur University Nagpur.

A Text Book of
ZOOLOGY

B. Sc.
(Semester - V)

Paper - IX: General Mammalian Physiology - I
Paper - X: Applied Zoology -I (Aquaculture and Economic Entomology)

Dr. Sudhir Bhandarkar
Head Department of Zoology
Manoharbai Patel College Deori

Dr. Sandeep Bande
Asst. Professor, Department of Zoology
Tai Golwalkar College Ramtek.

Dr. Gopal Paliwal
Asst. Professor, Department of Zoology
S. S. Jaiswal College, Arjuni/Morgaon.

Mr. Vaibhav Zade
Asst. Professor, Department of Zoology
D. D. Bhoyar College, Mauda




SAI JYOTI PUBLICATION

• Nagpur

• Pune

• Delhi




PRINCIPAL
D. D. BHOYAR COLLEGE OF ARTS & SCIENCE
MAUDA

© AUTHORS

No part of this book shall be reproduced, stored in retrieval system, or translated in any form or by any means, electronic, mechanical, photocopying and/or otherwise without the prior written permission of the publishers.

ISBN: 978-93-95008-17-4

FIRST EDITION : 2022

Printed and Published By :

Shri Ganesh Raut

Om Sai Publishers & Distributors

Plot No. 29 Behind T.B. Ward,

Indira Nagar, Nagpur 440003,

Ph.9923693506,

E-mail- ospdnagpur@yahoo.com

Sales Office :

Smt. Jyoti Naresh Khapekar

SAI JYOTI PUBLICATION

Teen-nal Chowk, Kasarpura,

Behind Panjivani Market,

Itwari, Nagpur. 440002

Mob. No. : 9764673503

E-mail id : sjp10ng@gmail.com.

Website : www.saijyoti.in

Books N Books

Plot No.65, Radhika Palace,

Medical Chowk Hanuman Nagar,

Nagpur - 440009.

Mob. No. : 9923693506

E-mail id : sjp10ng@gmail.com.

Website : www.saijyoti.in

Branches

Pune : 203, Paris Sparsh Height,

Ambamata Mandir Road,

Ambabai Dara, Dhayari,

Pune - 411041

Mob. No. : 9420318884

New Delhi : 213, Vardan House,

Ansari Road, Darya Ganj, New Delhi.

Pin Code - 110002

Mob. No. 8888828206, 9923693506

Type Setter :

Prasad, Nagpur

9881866500



PRINCIPAL

D. D. BHOJAP COLLEGE OF ARTS & SCIENCE
MOUDA

Chapter Ten

S-Type Spaces for Offset Fourier-Mellin (OFMT) Transform

P. D. Dolas

Assistant Professor and Head
Department of Mathematics

D. D. Bhojar College of Arts and Science
Mouda, Nagpur

Vidya Sharma

Associate Professor and Head
Department of Mathematics

Smt. Narsamma Arts, Commerce and
Science College, Amravati

Abstract :

In the present paper, we have introduced the spaces for Offset Fourier-Mellin (OFMT) transform will henceforth be considered equipped with their natural Hausdorff locally convex topologies and these topologies are generated by the total family of seminorms. Also, we have presented the topological structures of these spaces and the strict inductive limits of some spaces are discussed.

Keywords :

Fourier transform, Mellin transform, Offset Integral transform, Offset Fourier Mellin transform etc.

Introduction :

Integral transform method has been used successfully in solving many problems in engineering, mathematical physics and applied mathematics. Also, it has great importance in signal processing.

A new substitution scheme for color images watermarking is based on the Fourier transform [1]. Two new substitution schemes for digital audio watermarking based on the Fourier transform [2]. The Mellin transform is used to solve different biological models, the asymptotic evaluation of harmonic sums. It is mostly used to solve the axisymmetric problems and to simplify a number of derivations [3]. Generalized Mellin convolutions are applied for solution of a certain differential equation [4].

We have acknowledged that Fourier-Mellin transform is most useful integral transform due its shift-scale invariance property which is applicable in various fields of Mathematics, physics, Applied Mathematics and Engineering etc. Fourier Mellin Transform (FMT) is



Principals
PRINCIPAL

**D. D. BHOJAR COLLEGE OF ARTS & SCIENCE
MOUDA**

A Book on
New
Generalized
Integral
Transforms

Edited by - Dr. Vidya A. Sharma

Copyright © DnyanPath Publication, Amravati (INDIA)

No part of this publication may be reproduced or distributed in any form or by any means, electronic, mechanical, photocopy, recording, or otherwise or stored in a database or retrieval system without the prior written permission of publishers. This edition can be exported from India only by the Publishers.

Published by the DnyanPath Publication (INDIA)

The first edition published in 4th October, 2022

ISBN 13 : 978-93-94661-01-1

DnyanPath[®]
Publication
Wise with Right use
ISO 9001 : 2015

Visit us



www.dnyanpath.org

- Reg. Office** : FFS-A, Block C, First Floor, Venus Plaza, Shegaon Naka,
V.M.V. Road, Amravati - 444 603 (Maharashtra).
- Our Network** : Maharashtra, Delhi, Gujrat, Chattisgarh, Telangana, Bihar.
- Visit us** : www.dnyanpath.org
- Contact us** : dnyanpathpub@gmail.com
- Phone** : 08600353712, 09503237806

Printed at Shri Gurudeo Printers, Amravati.

Mahatma Fule Sankul, Shegaon Naka,
V.M.V. Road, Amravati - 444603 (Maharashtra)



[Signature]
PRINCIPAL

D. BHOJAP COLLEGE OF ARTS & SCIENCE
MOUDA

₹ : 510/-



A Book on New Generalized Integral Transforms

Edited by
Dr. Vidya A. Sharma



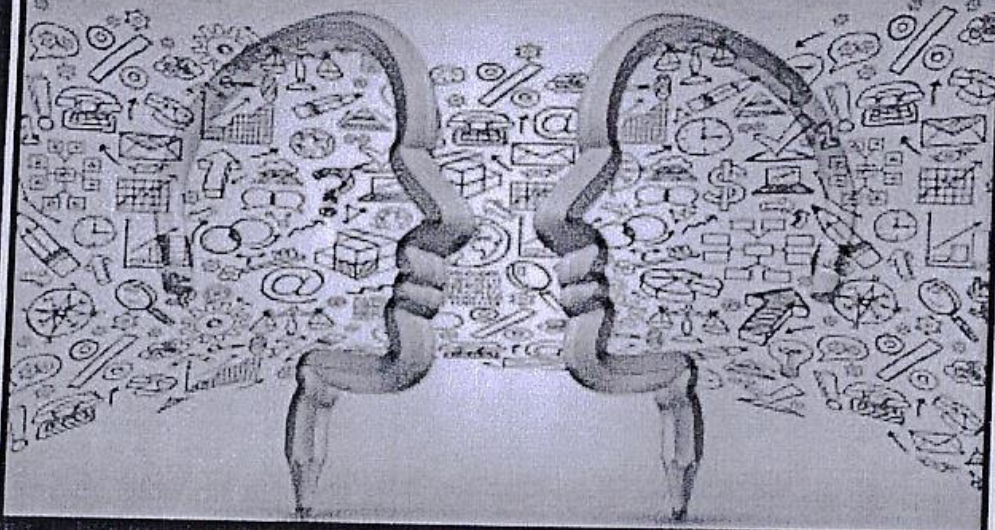

PRINCIPAL

G. B. BHOJAP COLLEGE OF ARTS & SCIENCE
BOULDA

2021-22



INTERDISCIPLINARY RESEARCH AND INNOVATION ISBN: 978-81-947154-6-7



Interdisciplinary Research and Innovation

First Edition

Kirti Verma
Suyash Yashwantrao Mullenwar
Ganga Singh
Lalit Malik
Tarakant



JPS Scientific Publications, India

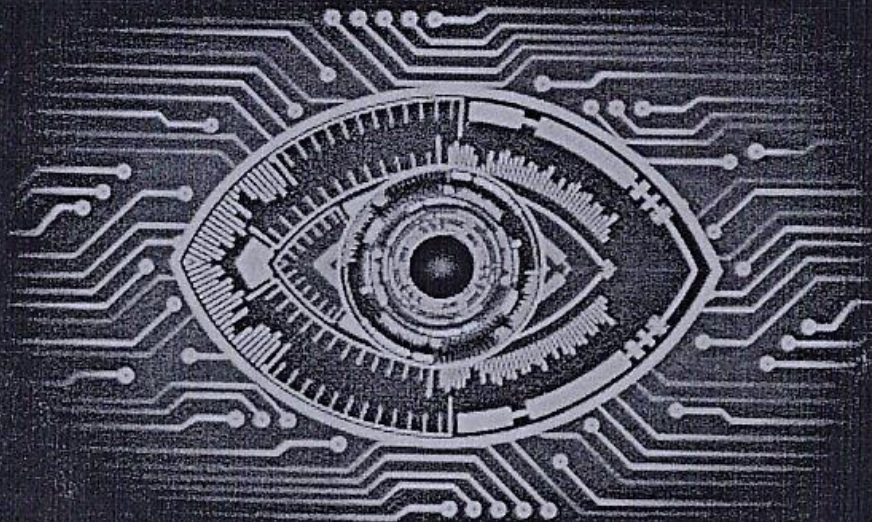


PRINCIPAL

D. D. BHOJAR COLLEGE OF ARTS & SCIENCE
MOUDA



RECENT ADVANCEMENT OF MATHEMATICS IN SCIENCE AND TECHNOLOGY (ISBN): 978-81-950475-0-5



Recent Advancement of Mathematics in Science and Technology

First Edition

**Dr. Kirti Verma
Dr. Ashok Kumar Shaw
Dr. Suyash Yashwantrao Mullemwar
Dr. S. Balamuralitharan
Mr. Rahul Kar**



JPS Scientific Publications, India




PRINCIPAL
D. D. BHOJAR COLLEGE OF ARTS & SCIENCE
MOUDA



Recent Advancement of Mathematics In Science and Technology



Dr. Kirti Verma,
Associate Professor
Department of Engineering Mathematics, Lakshmi
Narsin College of Technology, Bhopal, Madhya
Pradesh, India



Dr. Ashok Kumar Shaw
Dean Academic, Regent Education and Research
Foundation, Kolkata, West Bengal, India



Dr. Suyash Yashwantrao Mullemwar
Assistant Professor & Head
Department of Physics, D. D. Bhojar College of Arts
and Science, Mouda, Nagpur (M.S.), India



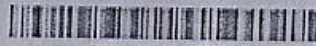
Dr. S. Balamuralitharan
Assistant Professor (Sr. G)
Department of Mathematics, College of Engineering
and Technology, SRM Institute of Science and
Technology (SRM IST), Kattankulathur, Tamil Nadu,
India



Mr. Rahul Kar
Assistant Teacher of Mathematics
Springdale High School, Nadia, West Bengal, India



JPS Scientific Publications, India



ISBN: 978-81-950475-0-5



[Signature]
PRINCIPAL

287

**D. D. BHOJAR COLLEGE OF ARTS & SCIENCE
MOUDA**

ABOUT THE AUTHORS



Dr. Deepak Taikar is M.Sc., B.Ed., Ph.D. from R.T.M. Nagpur University, Nagpur and currently working as an Assistant Professor and Head, Department of Physics at Sri Laxminagar Post Graduate College, Hingna. He is having more than 13 years teaching experience at UG level. His research specialization is Luminescence. He has published more than 20 research papers in highly reputed national and international journals and presented many research papers in national and international level conferences. He has been granted two patents and presented many research papers in national Award and Excellent Researcher Award. He has published two books for B.Sc. students. He is recognized research supervisor for Ph.D. in Physics under science faculty of R.T.M. Nagpur University, Nagpur. He is a reviewer of International Journals viz. ELSEVIER Publication, John Wiley & Sons Inc publication, and Springer Publication.



Dr. Ritesh Kohale is M.Sc. B.Ed. Ph.D. from R.T.M. Nagpur University, Nagpur and presently working as an Assistant Professor and Head in Department of Physics, Sant Gajab Sahakar College, Hingna Nagpur. He is having 10 years of teaching experience. Dr. Kohale published more than 45 research papers in international and national journals and presented more than 12 research papers in international and national conferences on solid state physics. He has also published three books in Elsevier and Nova International publications. He has recently published one book Patent. He is Reviewer of International Journals viz. ELSEVIER Publication, John Wiley & Sons Inc publication, Royal Society of Chemistry and New Journal of Chemistry.



Dr. Suyash Yashwantrao Mullenwar (M.Sc. B.Ed., Ph.D.), is presently working as Assistant Professor and Head, Department of Physics at D. Bhojap College of Arts and Science, Mouda, Nagpur. He completed his Ph.D. from R.T.M. Nagpur University, Nagpur and M.Sc. from Pune University. His research areas of interest is Luminescence. He has 9 years of teaching experience at UG level. He published research papers in various national and international journals as well as conferences, he published 04 Indian Patents and in various Australian Patents. He also published Four Books on different areas. He is a Life member of U.S. - India Science Society of India, Editorial Board Member of International Journal of Scientific, Modern, Research and Technology (IJSMRT) and also reviewer of American Journal of Optics and Photonics (AJOPT).



Dr. Kalpana R. Nagde presently working as assistant professor at Institute of science, Nagpur. She has 8 years research and teaching experience. She was awarded with junior research fellowship (UGC, New Delhi) senior research fellowship (CSIR, New Delhi), Women Scientist award (DST, New Delhi). She has Dr. P. L. Kharve award in her credit for securing highest marks in theory M. Sc. (Physics 2006) RTMNU examination. She has also completed major research project sanctioned by DST, New Delhi and also published several research papers in national and international journals.



B.Sc.

UNIVERSITY PHYSICS

VOLUME I

(A Complete Text Book for B.Sc. Semester-I)

Dr. Deepak Taikar

Dr. Ritesh Kohale

Dr. Suyash Mullenwar

Dr. Kalpana Nagde

Alliance & Co.

Alliance & Co.

A revolutionary attempt in educational books for all Indian universities & autonomous institutions...



PRINCIPAL

D. D. BHOJAP COLLEGE OF ARTS & SCIENCE

Mouda

Gujarat • Madhya Pradesh • Tamil Nadu • Karnataka • Andhra Pradesh • Punjab

Books Available at :



(Wholesale & Retail Centre of All Types of Educational Books from K.G. to PG)

ASHWIN BOOKS COLLECTION & DISTRIBUTORS

"PRATHMESH VIHAR", Flat No. 501, Bahupura, Unnikhanna, Greet Nag Rd.

Near Samrat Ashok Square, Nagpur - 440009 (Maharashtra)

Mob. : 9226267742, 7507658000 Phone No. (0712) - 2749924 Fax. (0712) 2749924

ISBN : 9780391322816





ABOUT THE AUTHOR

Dr. Ramesh N. Taikar (M.Sc., Ph.D.) is currently working as Assistant Professor and Deputy Co-ordinator of IQAC at C. J. Patel College, Tirora, Dist - Gondia. He has done Ph. D. from National Institute of Technology (NIT), Nagpur. During his Ph.D., he and his guide Dr. V.K. Deshpande have developed India's first Radiation Resistant Glass (RRG) for hot cell of Nuclear reactor situated at IGCAR, Kalpakkam. He has also worked as a wonderful administrator and teacher in his previous engineering college. His genuine teaching skill leads to produce 2 students who have achieved medals at RTMANU, Nagpur. Developing scientific temperament and curiosity among every student is the motive of his career in teaching.



DR. GAJANAN D. ZADE (M.Sc. Ph.D.) He is presently working as a head, department of physics at Jiwaharbal Nehru's commerce & science college Ward, Nagpur. He has 26 years of teaching experience at UG level. He is a member of Board of Studies in Physics of B. T. M. Nagpur University, Nagpur. [2011-2016 and 2017 - 2022]. He also worked as a member of Board of studies in physics of autonomous college (Bach) Science College Warcha. He performs a key role to prepare credit based semester pattern syllabus of B. T. M. Nagpur University, Nagpur. He published seven text books in physics based on U.G. syllabus. He completed one minor research project funded by U.G.C. New Delhi. He has a research experience in the field of luminescence and presented research work at national and international level. Four research students completed their Ph. D. degree in B. T. M. Nagpur University, Nagpur under his supervision. He is working as a subject expert for examination related work in M. P. S. C., Mumbai.



Dr. Suresh Kumar Ramkrishna Choubey Ph.D. MSc MA BEd DDM CYM LLB (pursuing) Assistant Professor and HOD, Department of physics, VJVV Commerce JMT Arts JJP Science College, Nagpur. He has published 36 research paper in international journals, national journal, international and national conference on sulphur based Nano luminescent and ferrite materials. He had given invited talk in many conference. He has authored 9 books with renowned physicist Dr. M.N. Avadhanulu and renowned publication on Engineering Physics. Recently in 2021 he got Australian Patent on solid state lighting material. He has 20 years of teaching experience in UG and PG. He got best teacher award from Times Global group.



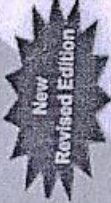
Mr. Sadanand R. Sarve (M. Sc. SET) He is working as Assistant professor and head, Department of physics Vijnay Arts Commerce & Science College Samudrapur. He has 9 years of teaching experience at undergraduate level and working in the research area of spinel ferrites. He has published research paper in international peer reviewed journal and developed more than fifty re-constituted subject area of physics.



Dr. Suyash Yashwantrao Mullerwar, (M.Sc. B.Ed., Ph.D.) is presently working as Assistant Professor and Head, Department of Physics at D. D. Bhojap College of Arts and Science Mouda, Nagpur. He completed his Ph.D. from RTM, Nagpur University, Nagpur and M. Sc. from Pune University. His area of interest is Luminescence. He has 9 years of teaching experience at UG level. He published research papers in various national and international journals as well as conferences. He published 04 Indian Patents and Granted 02 Australian Patents. He also published Four Books on different areas. He is a life member of Luminescence society of India, Editorial Board Member of International Journal of Scientific Modern Research and Technology (IJSMRT) and also reviewer of American journal of Optics and Photonics (AJOP).

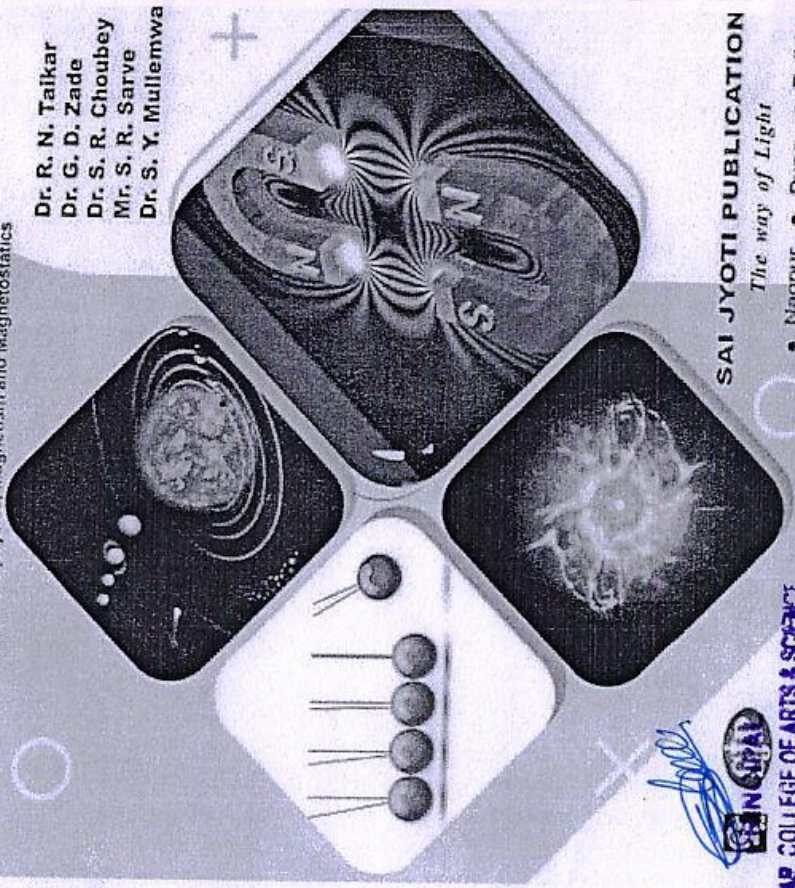
As per the New Semester wise Syllabus of Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.

Text Book of **Physics**
B.Sc. Semester - II



Paper - I: Oscillations, Kinetic Theory of Gases and Thermodynamics
Paper - II: Gravitation, Astrophysics, Magnetism and Magnetostatics

- Dr. R. N. Taikar
- Dr. G. D. Zade
- Dr. S. R. Choubey
- Mr. S. R. Sarve
- Dr. S. Y. Mullerwar

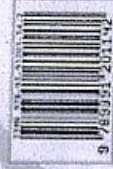


SAI JYOTI PUBLICATION
The way of Light
• Nagpur • Pune • Delhi

Text Book of **Physics** B.Sc. Semester - II

- Dr. Taikar
- Dr. Zade
- Dr. Choubey
- Mr. Sarve
- Dr. Mullerwar

ISBN : 978-93-91201-14-2



₹: 210/-

OM SAI PUBLISHERS & DISTRIBUTORS
Mob. 9923693506
E-mail- ospdngpur@yahoo.com

SAI JYOTI PUBLICATION
Mob. 9923593503
E-mail- saijyoti@gmail.com



Flipkart

amazon

D. D. BHOJAP COLLEGE OF ARTS & SCIENCE MOUDA

Investigations on structural, photo-physical and photometric parameters of metal based quinoline complexes for OLEDs

N Thejo kalyani¹, S Y Mullemwar², P D Choudhari³, P M Gahukar³ and S J Dhoble⁴

¹Department of Applied Physics, Laxminarayan Institute of Technology, Na gpur-440033, India

²Department of Physics, D. D. Bhojar college of Arts and Science, Mouda, Na gpur-441104, India

³Department of Physics, VMV Commerce, JMT arts and JJP Science college, Na gpur-440008, India

⁴Department of Physics, RTM Na gpur University, Na gpur-440033, India

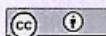
*Corresponding author: suyash.mullemwar@gmail.com

Abstract. This paper includes the synthesis of bluish-green light emitting metal based hydroxyl quinoline complexes namely, Mgq₂, Baq₂ and Mg_xBa_(1-x)q₂ (Mg: Magnesium, Ba: Barium, q: 8-hydroxy quinoline, x = 0.1, 0.2, ... 0.9) by simple precipitation method at different values of pH and stoichiometry. It's noteworthy to state that we are the first one to report novel complexes based on Ba (Baq₂ and Mg_{0.5}Ba_{0.5}q₂). The inquisition of these complexes was carried out to probe structural, photo physical and photometric parameters by FTIR, photoluminescence (PL) spectra and 1931 CIE colour calculator, respectively. These investigations reveal that pH value and stoichiometry have feeble effects on the emission wavelength and intensity. Investigations further reveal that among all the synthesized complexes, Baq₂ (at pH 6.5) emits intense blue light in various environments. Thus, barium based quinoline complexes have the potential to sustain their emission features in solid state as well as in a acidic and basic medium- one of the characteristic features which are highly essential for the fabrication of OLEDs by vacuum as well as solution techniques.

Keywords: Quinoline complexes, pH, stoichiometry, bluish green emission, OLED.

1. Introduction

Light-emitting devices (LEDs) have created in the field of light emitting optoelectronic devices nearly 50 years ago; nevertheless, during the past one and half decade they were just popular as an indicator in traffic signals, electronic appliances and many more [1,2]. These LEDs slowly emerged in numerous wavelengths including ultraviolet, visible (including violet, pink and white, apart from red, green and blue) and infrared regions of electromagnetic spectrum. The energy band gap (E_g) dictates the emissive wavelength of the diode, based on relation $E=hc/\lambda$. This functional feature of LEDs validated them into numerous diverse areas including displays, sensor applications, automotive uses, medical applications, as illuminators, in horticulture, solid state lighting technology medicine [3] and even for decorative purpose to name a few. LED bulbs- a combination of point source LEDs, in spite of being mercury free, long lasting and energy saving, they are restricted by technology, they shift colour in due course of time and temperature, also cause light pollution [4]. Hence, one of the newest kinds of LED lighting and displays emerged as organic light emitting diodes (OLEDs), which make use of organic phosphor



Content from this work may be used under the terms of the Creative Commons Attribution 3.0 licence. Any further distribution of this work must maintain attribution to the author(s) and the title of the work, journal citation and DOI.

Published under licence by IOP Publishing Ltd



PRINCIPAL
D. D. BHOJAR COLLEGE OF ARTS & SCIENCE
MOUDA



JPS Scientific Publications

Tamil Nadu, India



CERTIFICATE OF PUBLICATION

This is to certify that Dr. Paritosh Dolas has successfully published a book chapter
(LINEAR DIFFERENTIAL EQUATIONS WITH CONSTANT COEFFICIENTS) in the book entitled
"ANALYSIS OF MATHEMATICAL SCIENCES AND IT'S APPLICATIONS"

ISBN: 978-81-947154-8-1

Thanks for the valuable contribution

BOOK EDITORS:

- ✓ Dr. Kirti Verma
- ✓ Dr. S. Balamuralitharan
- ✓ Ms. Rupali Verma
- ✓ Dr. Qazi Aftab Kabir



Dr. P. Saranraj
Managing Editor
JPS Scientific Publications,
Tamil Nadu, India



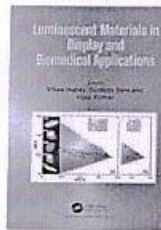
[Signature]
PRINCIPAL
D. P. BHOYAR COLLEGE OF ARTS & SCIENCE
MOUDA

2020-21

< Luminescent Materials in Display and Biomedical Applications (<https://www.taylorfrancis.com/books/mono/10.1201/9780429025334/luminescent-materials-in-display-and-biomedical-applications?refid=ca2f4be4-2e5e-4e28-bda2-851db24a5aa1&context=ubx>)

Show Path

Chapter



Investigations on Tunable Blue Light Emitting P-Acetyl Biphenyl-DPQ Phosphor for OLED Applications

By S.Y. Mullenwar (</search?contributorName=S.Y. Mullenwar&contributorRole=author&redirectFromPDP=true&context=ubx>), G.D. Zade (</search?contributorName=G.D. Zade&contributorRole=author&redirectFromPDP=true&context=ubx>), N. Thejo Kalyani (</search?contributorName=N. Thejo Kalyani&contributorRole=author&redirectFromPDP=true&context=ubx>), S.J. Dhoble (</search?contributorName=S.J. Dhoble&contributorRole=author&redirectFromPDP=true&context=ubx>), Xiaoyang Huang (</search?contributorName=Xiaoyang Huang&contributorRole=author&redirectFromPDP=true&context=ubx>)

Book [Luminescent Materials in Display and Biomedical Applications](https://www.taylorfrancis.com/books/mono/10.1201/9780429025334/luminescent-materials-in-display-and-biomedical-applications?refid=ca2f4be4-2e5d-4e28-bda2-851db24a5aa1&context=ubx) (<https://www.taylorfrancis.com/books/mono/10.1201/9780429025334/luminescent-materials-in-display-and-biomedical-applications?refid=ca2f4be4-2e5d-4e28-bda2-851db24a5aa1&context=ubx>)

Edition 1st Edition
 First Published 2020
 Imprint CRC Press
 Pages 15
 eBook ISBN 9780429025334

Share

ABSTRACT

< Previous Chapter (<chapters/edit/10.1201/9780429025334-5/effect-cazo3-doping-gd3-phototherapy-lamp-phosphor-performance-neha-dubey-marta-michalska-doma%C5%84ska-jagjeet-kaur-saluja-janita-saji-vikas-dubey?context=ubx>)
 Next Chapter > (<chapters/edit/10.1201/9780429025334-7/phosphors-role-magnetic-resonance-medical-imaging-drug-delivery-applications-review-neha-dubey-vikas-dubey-jagjeet-kaur-dhananjay-kumar-deshmukh-murthy?context=ubx>)



[Signature]
PRINCIPAL
 D. D. BHOYAR COLLEGE OF ARTS & SCIENCE
 MOUDA

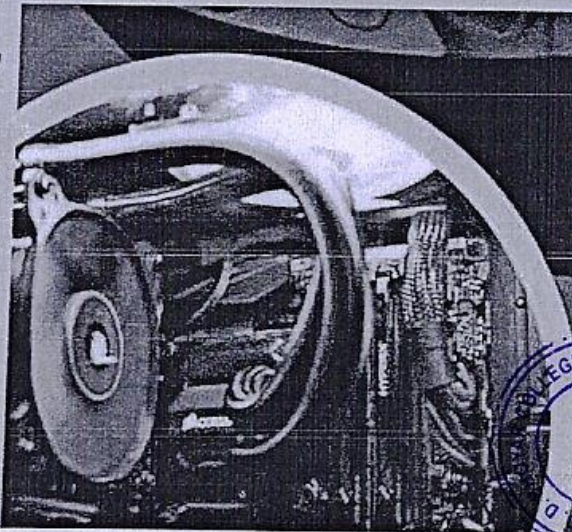
(<https://www.taylorfrancis.com>)

Policies

ROCK PIGEON PUBLICATION

INDUSTRIAL PEOPLE MANAGEMENT VOL-III

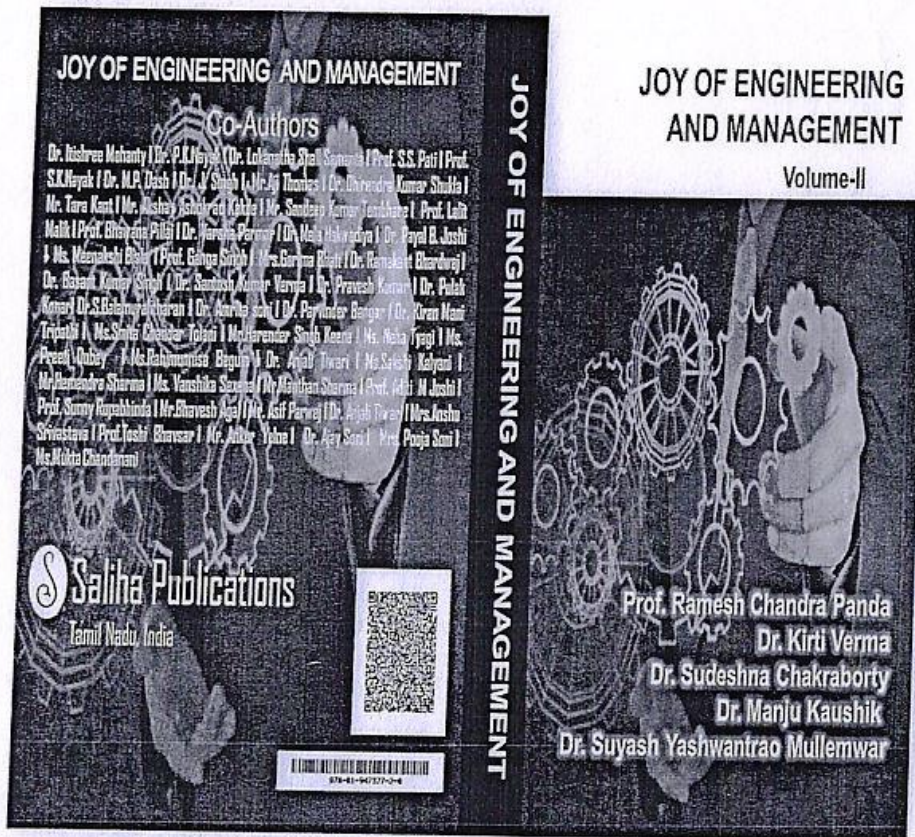
Prof. Ramesh Chandra Panda
Prof. Pali Gaur
Prof. Dr. Kirti Verma
Prof. Dr. Suyash Yashwantrao Mullemwar
Prof. Safikul Islam



[Handwritten Signature]

PRINCIPAL

D. D. BHOJAP COLLEGE OF ARTS & SCIENCE
MOUDA



[Signature]

PRINCIPAL

**D. D. BHOJAP COLLEGE OF ARTS & SCIENCE
MOUDA**



SURVEY OF NON TIMBER FOREST PRODUCTS (NTFPs) FROM NORTH GADCHIROLI VILLAGES OF MAHARASHTRA.

Pradeep Saudager¹, Swapnil K. Kamble²

¹Department of Botany, Arts, Commerce and Science College, Maregaon

²Department of Botany, D.D. Bhoyar Art and Science college, Mouda

Communicated : 17.12.19

Revision : 06.01.2020
Accepted : 25.01.2020

Published: 30.01.2020

ABSTRACT:

Kurkheda, Korchi talukas of Gadchiroli district are is mainly inhabited Kavar,Gond tribes. Livelihood of district are primarily dependent on agriculture, forest collection (NTFPs), agriculture labour, village artisans etc. This area which is selected for survey because of poor indices in various areas of development. Infrastructure, food availability and economics of habitation. Present study deals with 23 plant species belonging to 21 genera and 16 families. This information is obtained by frequent field visits during three seasons of year during 2018.102 rural and tribal families of 7 villages were surveyed.

Key words: - NTFPs, tribes, habitation.

INTRODUCTION:

Worldwide most of the rural tribes are the stakeholders& non stakeholderwho utilizes Non Timber Forest Products (NTFPs) to fulfill their basic needs. (ICCF,2005)Non-timber forest products (NTFPs) has socio-economic and cultural importance for the forest dwelling communities, particularly for the tropical countries like India(Yadav & Dugaya, 2013). It also creates conservation of biodiversity aspects within local communities, through this non timber forest products sustainable forest management will be done (Maske et.al.,2011). NTFPsis backbone factor of local tribal communities for enhancing their Social, Economic and Physical Wealth. (Aiyeloja,2006; Agbogidi,2010)Due to heterogeneity of the community and different traditional practices by ethnic groups in the country. NTFP's uses get vary from place to place.

MATERIAL AND METHODS:-

Information from a North part of Gadchiroli district of Maharashtra on Non Timber Forest Products (NTFPs) was collected based on structured questionnaire and through focused group

discussion (Schonhuth and Kievelitz,1994) involving their relationship with rural and tribal of Gadchiroli district.The information related to NTFPs and suggestions on conservation. Theinterviews were carried out in local language Marathi. The NTFPs plant specimens were collected and identified by standard floras. (Singh et.al 2000; Yadav & Sardesai 2002)

OBSERVATION

The list of NTFPs collected in north Gadchiroli region are provided in table.

RESULT AND DISCUSSION

The present study revealed that NTFPs used by tribal peoples of Kurkheda and Korchi talukas from North Gadchiroli villages for various purposes in Occasional and Regular ways. NTFPs were utilizes in their diets for edible and medicinal purpose. (Chhetri & Gupta,2010). In above survey villagers obtained NTFPs by collecting fruits, Seeds, Flowers and stem bark from 21 genera with 23 plant species belonging to 16 different families of Dicotyledons. But most of the NTFPs were




PRINCIPAL
D. D. BHOYAR COLLEGE OF ARTS & SCIENCE
MOUDA

2019-20

E-Resource Management

Minal Bhoyar
Librarian
D.D. Bhoyar Arts & Science College
Mouda Dist. Nagpur (MS)

Abstract :

To the rapid growth of E-resources and complication of managing e-collections has a new challenge for libraries. Internet has become important part of library and facilitated libraries as a global platform for sharing a knowledge. Knowing about the need of libraries is rising a new produce, an electronic resource management system. Google itself provides sufficient opportunities to become library as a global player for the access of scholarly information. The progress of E-resources and their increased use changes the library's picture as physical to virtual. Students and scholars are also gives the preference to E-resources in traditional library.

E-resources are very easy to access and get the information within a second. Educational instutued are explore a different type of accepts of the e-resources lifecycle. Uses of e-learning are change the role of librarian. E-searching gives a new opportunity for library professionals, staff, users and researchers. This paper discuss on meaning, concept of e-resources, types of e-resources. The emphasis on life cycle of e-resources management, its advantages and disadvantages. and gives the challenges and future research directions of e-resources.

Keywords- E-resources, E-learning, E-databases, Electronics books, OPAC, E-images, E-journals, advantages and disadvantages of e-resources, life cycle of e-resources, wiki-book, challenges of e-resources.

Introduction :

Librarians often accepted the new challenges in changing era. Now a days, library has changes its old format. Library and information centre has changes from traditional to modern technological view. The concept of library in educational institutions is changing day by day. As the major constituents of library like physical books, hard copies of journals and newspapers are vanishing and a new format called e-format are emerging. The printed materials, journals and newspapers are thumbing and their electronic format do not need space for storage and single copy of such resource can be shared by number of users as the name library has no longer validity. The reasons for choosing electronic resources are clear that to improve a mobile patron population, facilitating access to materials, and reducing the space in library. World Wide Web has extremely changed in every field in the earth. Library and information centers have gained a lot of knowledge and resources to provide users. The knowledge centers have a lot of mouse click resources to give a quick access to the user. Library users are demanded easy to accessible resources for within a second, so library has provided them as per as demand.

In digital era library portals offer variety of e-services and information products for their users as resource. E-resources are consist of online library catalogues, electronic journals and e-books, CD/DVDs, digitally converted print materials etc. Electronic resource management is the practices and techniques used by librarians and library staff to the selection, subscription, licensing, access, maintenance, usage, evaluation, retention, and rectification of library's electronic information resources. E-learning is an emerging trend to help our dynamic users, it allow them to fill the gaps left by the education system. E-books, E-Journals have great demand among the students. Internet technology provides E-publishing among the users and academic organization.

2. What are E-Resources.

Electronic invention are distribute a text, collection of data, databases, e-journals, e-books image collections, other multimedia goods and numerical, graphical or time based, as commercially accessible heading that has been available with an only aim to being marketed and for information broadcasting. These may be delivered on any optical media or using the Internet.

3. E-Learning Concept: E-learning can be simply defined as learning with the help of electronic resources is known as e-learning. The use of computers and the Internet constitute the major component of e-learning. It can also be termed as an internet enabled sharing of skills and knowledge, and the transfer of knowledge is made possible to a large number of recipients at the same or different times. It is



PRINCIPAL

D. D. BHOYAR COLLEGE OF ARTS & SCIENCE
MOUDA