



Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE, RAICHUR-584103.

(Affiliated to Raichur University, Raichur. Re-Accredited by NAAC with "B" Grade)

Dr. Venkatesh B. Devaru, M.Sc., Ph.D., MBA.
PRINCIPAL

Office of the Principal
Ph: (08532)-240286, 240707
Fax: +918532 240707
e-mail: lvdrcc@gmail.com
Website: www.lvdcollege.com

Ref: LVD/

Date:

POLICY DOCUMENT ON PROVIDING FINANCIAL SUPPORT TO TEACHERS FOR ATTENDING CONFERENCE/WORKSHOP

The policy of providing the financial support to the teacher is in-force to attend the conference and workshop organized by institute of national repute, University, College and also towards membership fee of professional bodies.

To encourage the teaching staff to participate and present their research papers in conferences and workshops.

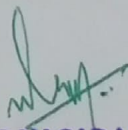
- To support the teaching staff to avail the opportunity for discussing the novel development, the emerging challenges, future perspective in their field of interest
- To support the teaching staff to promote teaching learning, research extension activities and governance through participation in conference and workshops
- To enhance their academic credential in line with expectations

POLICY REGARDING ATTENDING CONFERENCE/WORKSHOP/SEMINARS

Faculty is allowed to attend Conference/ Workshop/Seminars at national and international level by the institution (i.e. Registration fee or T A) subject to fulfilment of the following conditions.

1. The faculty has to present a paper or chairperson and has been officially invited to this effect
2. No DA will be paid and faculty members will be granted academic leave.
3. In case of local conference/ Workshop/Seminars, only academic leave granted
4. Fulfilment of instruction issued by the government of India from time to time for going




PRINCIPAL
L.V.D. College, RAICHUR-03.



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LAXMI VENKATESH DESAI COLLEGE, RAICHUR-584103.
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6.3.2 This is to certify that following is the list highlighting the number of full-time teachers provided with financial support to attend conferences/workshop and towards membership fee of professional bodies during the last five years

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support received (in INR)
2022-23				
Jan 2023	Kum.suvarna Metigouda	2 days offline training programme on virology & covid 19 research	E-cell IIT kharagpur	1500.00
Jan 2023	Mr. Hanamantray	2 Days Offline Training Programme On Virology & Covid 19 Research	E-cell IIT kharagpur	1500.00
Jan 2023	Dr.Manjunath. K	2 days offline training programme on virology & covid 19 research	E-cell IIT kharagpur	1500.00
Jan 2023	Dr.Shivaraj.y	2 Days Offline Training Programme On Virology & Covid 19 Research	E-cell IIT kharagpur	1500.00
Jan 2023	Kum.swati suresh	2 Days Offline Training Programme On Virology & Covid 19 Research	E-cell IIT kharagpur	1500.00
Jan 2023	Dr. Vijaylaxmi.C	2 Days Offline Training Programme On Virology & Covid 19 Research	E-cell IIT kharagpur	1500.00
MAY 2023	Dr.shivaraj y	4week Faculty Induction Programme	Teaching Learning Centre Ramanujam College, University of Delhi	1950.00
2021-22				
Nov 2022	Smt.Hemalatha S A	7 days online workshop	Cytogene research & development lucknow	1200.00

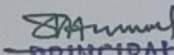


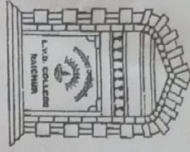
May 2021	Dr.Shivaraj Y	Article Publication	International Journal Of Mosquito Research	2300.00
May 2021	Dr.jayateertha N S	2 ND Online short term course on ICT	UGC-HRDC Gujarath University	1000.00
June 2021	Dr.Shivaraj Y	Book/Chapter Publication	Akinik Publications	3000.00
Nov 2021	Dr.Manjunath.K	30 Days Faculty Induction Programme	MANUU UGC - HRDC Hydrabad	1500.00
Nov 2021	Mr.Hanamantray	30 days faculty induction programme	MANUU UGC - HRDC Hydrabad	1500.00
Nov 2021	Mr.Husenappa	30 days faculty induction programme	MANUU UGC - HRDC Hydrabad	1500.00
Nov 2021	Dr.Krishna Namdev	30 days faculty induction programme	MANUU UGC - HRDC Hydrabad	1500.00
Nov 2021	Dr.Gayatri	30 days faculty induction programme	MANUU UGC - HRDC Hydrabad	1500.00
Nov 2021	Dr.Tayamma	30 days faculty induction programme	MANUU UGC - HRDC Hydrabad	1500.00
Nov 2021	Mr.Rajbabbar B R	30 days faculty induction programme	MANUU UGC - HRDC Hydrabad	1500.00
Nov 2021	Dr.Chakradar	30 days faculty induction programme	MANUU UGC - HRDC Hydrabad	1500.00
2020-21				
Jan 2021	Sri.Sharanagouda B H	121-Online short term course on E-content development	UGC-HRDC Gujraj University	1000.00
2019-20				
Jan 2020	Dr.Prashanth Kumar	Refresher Ccourse in Lifesciences	UGC-HRDC SANT GADGE BABA Amaravathi University Amaravathi(M.S)	1000.00
Jan 2020	Dr.Shivaraj Y	Life Membership	Applied Zoologist Reseach Association (AZRA)	5000.00
Apr 2020	Mr.Sharanagouda B H	15 days online certificate course on research methodology	Laxmi book publications solapur	1000.00
Apr 2020	Dr.Shivaraj Y	Reviewer And Life Membership	INSC Publishing House	5000.00
Apr 2020	Dr.Shivaraj Y	Research Article Publication	Akinik Publication	5000.00
May 2020	Mr.Sharanagouda B H	One week online faculty development programme	Sangolli Rayanna First Grade Constituent College Of Rani	

			Chennamma University Belagavi	
May 2020	Mr.Sharanagouda B H	One Week Short Term Course	Gfgc Harihara	
July 2020	Dr.Shivaraj Y	Life Membership	The Indian Science Congress Association	2000.00
May 2019	Dr.Shivaraj Y	Paper Publication	International journal of Pharma and Bioscience	3050.00
May 2019	Dr.Shivaraj Y	Paper Publication	International journal of Pharma and Bioscience	7500.00
2018-19				
Feb 2019	Dr.Anjaneya	Refresher course in life science	UGC-HRDC University of Hyderabad	1000.00


 Co-ordinator
 Internal Quality Assurance Cell (IQAC)
 Laxmi Venkatesh Desai College, RAICHUR-03.




 PRINCIPAL
 L.V.D. College, RAICHUR-03.



Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE

RAICHUR - 584 103.



No. : **326**

RECEIPT

Date : 30-01-2023

Received with thanks a sum of Rs. (in figure).....1500/-

(Rupees...One...thousand...five...hundred...only.....)

from the Principal LAXMI VENKATESH DESAI COLLEGE, RAICHUR
towards...Registration fees for ^{two days} training.....

.....Cash/Cheque/DD.No.Date 30-01-2023

₹ 1500/-

~~Principal~~

PRINCIPAL

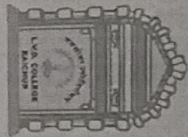
Signature *Sugunda*

(Sugunda Methy Sugunda)

L.V.D. College, RAICHUR-03.

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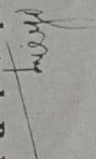
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Certificate of Completion

This is to acknowledge that

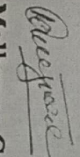
Dr./Mr./Ms. **SUVARNA . METT. G. RUDRA**..... (Student/Faculty)

has successfully completed 2 Days Offline Training
Program on **Virology & Covid 19 Research**
held on **3rd & 4th March 2023**, organized by Dept. of Zoology,
Laxmi Venkatesh Desai College, Raichur in association with
Makeintern Zonal Championship and E-Cell IIT Kharagpur.


Dr. Venkatesh. B. Devaru

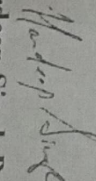
Principal

Laxmi Venkatesh Desai College, Raichur


Dr. Malkanna Gouda

HOD Zoology

Laxmi Venkatesh Desai College, Raichur


Hardeep Singh Puri

Director

Makeintern



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RAICHUR - 584 103.



No. : **337**

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Date : 30/01/23

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towards... Registration fees for 2 days Training

Cash/Cheque/D.D.No. Date 30-01-2023

₹ 1500/-

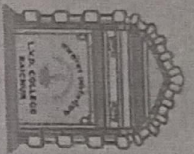
[Signature]
Principal

[Signature]
Signature

L.V.D. College, RAICHUR 03.

(Mr. Hanamantay)

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This is to acknowledge that

Dr./Mr./Ms. **HANAMANTRAY**..... (Student/Faculty)

has successfully completed 2 Days Offline Training
Program on **Virology & Covid 19 Research**
held on 3rd & 4th March 2023, organized by Dept. of Zoology,
Laxmi Venkatesh Desai College, Raichur in association with
Makeintern Zonal Championship and E-Cell IIT Kharagpur.

[Signature]
Dr. Venkatesh. B. Devaru

Principal

Laxmi Venkatesh Desai College, Raichur

[Signature]
Dr. Malkanna Gouda

HOD Zoology

Laxmi Venkatesh Desai College, Raichur

[Signature]
Hardeep Singh Puri

Director

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Date : 30-01-2023



Received with thanks a sum of Rs. (in figure).....15001-
 (Rupees... One thousand... five hundred only.....)
 from the Principal LAXMI VENKATESH DESAI COLLEGE, RAICHUR
 towards... Registration fees for 2 day training
 Cash/Cheque/D.D.No. Date 30-01-2023

₹ 15001-

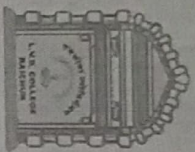
[Signature]
Principal

PRINCIPAL

(Dr. Shivaraj)
Signature

L.V.D. College, RAICHUR-03.

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
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E-Cell (IIT Kharagpur Event)
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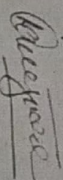
Certificate of Completion

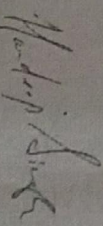
This is to acknowledge that

Dr./Mr./Ms. **SHIVARAJ** (Student/Faculty)

has successfully completed 2 Days Offline Training
Program on **Virology & Covid 19 Research**
held on 3rd & 4th March 2023, organized by Dept. of Zoology,
Laxmi Venkatesh Desai College, Raichur in association with
Makeintern Zonal Championship and E-Cell IIT Kharagpur.

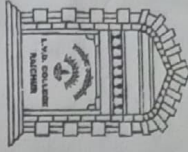

Dr. Venkatesh. B. Devaru
Principal
Laxmi Venkatesh Desai College, Raichur


Dr. Malkanna Gouda
HOD Zoology
Laxmi Venkatesh Desai College, Raichur


Hardeep Singh Puri
Director
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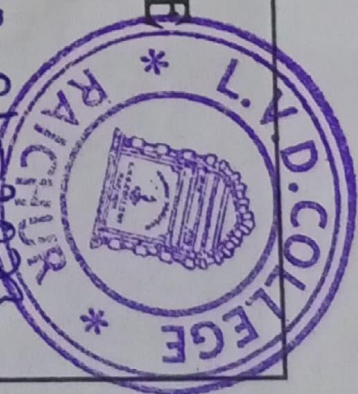
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RAICHUR - 584 103.



No. : **328**

RECEIPT

Date : 30-01-2023

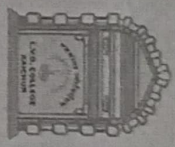
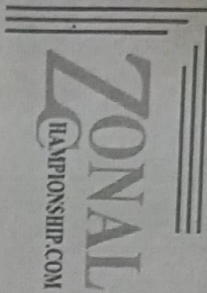
Received with thanks a sum of Rs. (in figure)..... 15001-
(Rupees One thousand five hundred only.....)

from the Principal **LAXMI VENKATESH DESAI COLLEGE, RAICHUR**
towards Registration fees for 2 day training.....

Cash/Cheque/D.D.No. Date 30-01-2023

₹ 15001-

[Signature]
Principal
PRINCIPAL (K. Swati Swamy)
L.V.D. College, RAICHUR-03.



PROSEKONIM IIM
CAMERA
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PRO

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E-Cell (IIT Kharagpur Event)

in association with www.makeintern.com

Certificate of Completion

This is to acknowledge that

Dr./Mr./Ms. **KORBAN. S. LATHA. SURESH.....** (Student/Faculty)

has successfully completed 2 Days Offline Training Program on **Virology & Covid 19 Research** held on **3rd & 4th March 2023**, organized by Dept. of Zoology, Laxmi Venkatesh Desai College, Raichur in association with **Makeintern Zonal Championship and E-Cell IIT Kharagpur.**

Dr. Venkatesh. B. Devaru
Principal
Laxmi Venkatesh Desai College, Raichur

Dr. Malkanna Gouda
HOD Zoology
Laxmi Venkatesh Desai College, Raichur

Hardeep Singh Puri
Director
Makeintern



Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE

RAICHUR - 584 103.

No. : **329**

RECEIPT

Date : 30-01-2023

Received with thanks a sum of Rs. (in Figure) 1500/-
(Rupees One thousand five hundred only)
from the Principal LAXMI VENKATESH DESAI COLLEGE, RAICHUR
towards Registration fees for 2 days training Programme
Cash/Cheque/D.D.No. Date 30-01-2023

₹ 1500/-

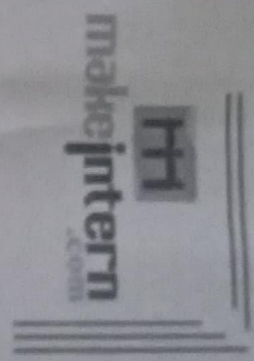
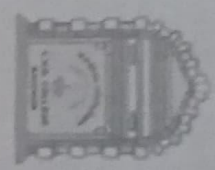
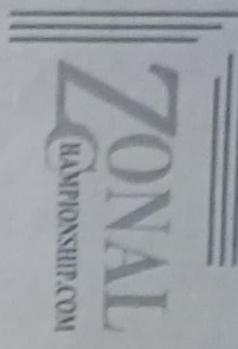
Principal

PRINCIPAL

Signature

(Dr. Vijalaxmi)

L.V.D. College, RAICHUR-03.



E-Cell 2k22-23
E-Cell (IIT Kharagpur Event)
in association with www.makeintern.com

Certificate of Completion

This is to acknowledge that

Dr./Mr./Ms. *Dr. VIKAS LAXMI*..... (Student/Faculty)

has successfully completed 2 Days Offline Training Program on **Virology & Covid 19 Research** held on **3rd & 4th March 2023**, organized by Dept. of Zoology, Laxmi Venkatesh Desai College, Raichur in association with **Makeintern Zonal Championship and E-Cell IIT Kharagpur.**

Dr. Venkatesh
Dr. Venkatesh. B. Devaru
Principal
Laxmi Venkatesh Desai College, Raichur

Dr. Malkanna
Dr. Malkanna Gouda
HOD Zoology
Laxmi Venkatesh Desai College, Raichur

Hardeep Singh
Hardeep Singh Pari
Director
Makeintern



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RAICHUR - 584 103.

No. : **341**

RECEIPT

Date : 9/10/2023

Received with thanks a sum of Rs. (in figure) 1950/-

(Rupees) One Thousand Nine Hundred Fifty only

from the Principal LAXMI VENKATESH DESAI COLLEGE, RAICHUR

towards F.T.P. (Faculty Improvement Programme) One month

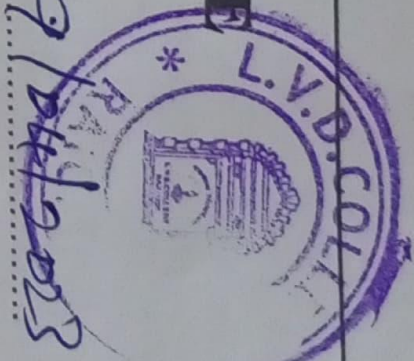
Cash/Cheque D.D.No. Date 9/10/2023

₹ 1950/-

Principal

Signature

L.V.D. College, RAICHUR-03. (Dr. Shivraj) ()



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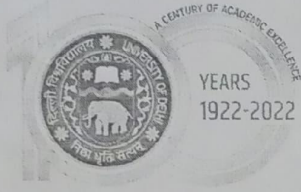
Shivaraj Metigouda <shivarajmetigouda@gmail.com>

Thank you for your payment

1 message

support.tlc@ramanujacollege.ac.in <support.tlc@ramanujacollege.ac.in>
To: shivarajmetigouda@gmail.com

Mon, Apr 10, 2023 at 11:03 AM



10/04/2023

Course Name	FIP
Course Duration	23 Apr 2023 - 22 May 2023
Order Status	Payment Success
Order ID	RCMOOCS20230410ODR32710
Order Amount	1950.00 INR

Username
DR. SHIVARAJ Y

Email
shivarajmetigouda@gmail.com

Regards

This email was sent to shivarajmetigouda@gmail.com To continue receiving our emails, add us to your address book.

Contact Email: rcmoocs@ramanujan.du.ac.in



Teaching Learning Centre

Ramanujan College, University of Delhi

(Accredited Grade 'A++' by NAAC)

In collaboration with

ARMY INSTITUTE OF EDUCATION (AIE)

Affiliated to Guru Gobind Singh Indraprastha University, Delhi

under the aegis of

MINISTRY OF EDUCATION

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Dr. Shivaraj Y

of

LVD College Raichur - 584103

successfully completed a 4-Week Faculty Induction/Orientation Programme for
"Faculty in Universities/Colleges/Institutes of Higher Education"

from 23 April – 22 May, 2023 and obtained

Grade A.



Blockchain Hash: [0xbb4c15af455deb1555eae36e5c7b61e7fed04df46b3bf4efce86b2c84d6479507a](https://www.blockchain.com/tx/0xbb4c15af455deb1555eae36e5c7b61e7fed04df46b3bf4efce86b2c84d6479507a)

Prof. S. P. Aggarwal

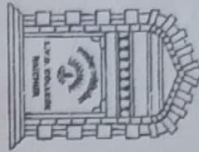
Prof. S. P. Aggarwal
(Principal & Director)
TLC, Ramanujan College

Dr. Abhilasha Gautam

Dr. Abhilasha Gautam
(Principal)
Army Institute of Education

Dr. Nikhil Kumar Rajput

Dr. Nikhil Kumar Rajput
(Convener)
Ramanujan College



Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE

RAICHUR - 584 103.



No. : **336**

RECEIPT

Date : 24/11/2022

Received with thanks a sum of Rs. (in Figure)..... 1200/-

(Rupees..... Twelve hundred only.....)

from the Principal **LAXMI VENKATESH DESAI COLLEGE, RAICHUR**
towards..... Registration of work of at cylogene

Research Expenses..... Cash/Cheque/D.D.No. Date 24/11/2022

₹ 1200.

~~Principal~~
PRINCIPAL

Signature
(Smt. Hemalatha. S. A)

L.V.D. College, Raichur-03.

Certificate for

Reg. No.: 221183

Primer Designing, PCR & Real Time PCR for Gene Expression Analysis

This is to certify that Prof./Dr./Mrs./Miss./Mr.

Hemalatha S A



Head, Department of Biotechnology, Laxmi Venkatesh Desai college, Raichur
Karnataka

has actively participated in 7 days Online Workshop on "Primer designing, PCR & Real Time PCR for gene expression analysis" from 23rd to 29th of November, 2022, Organized by CytoGene Research & Development, Lucknow.

Dr. Umashankar
Director R&D
CytoGene Research & Development,
Lucknow

Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2008

Er. Sujeet Kr. Singh
Director
CytoGene Research & Development,
Lucknow

PRINCIPAL
L.V.D. College, RAICHUR-03.

NEFT Ref No

P326220204427403

for INR 1,200.00 has

been credited to Benf

CYTOGENE RESERACH

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on 2022-11-22 13:33:40-

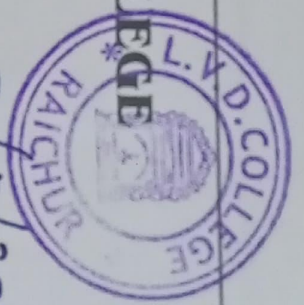
Canara Bank



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LAXMI VENKATESH DESAI COLLEGE

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No. : **334**

RECEIPT

Date : 30/5/2021

Received with thanks a sum of Rs. (in figure) 2300/-
(Rupees Two thousand Three hundred only)
from the Principal **LAXMI VENKATESH DESAI COLLEGE, RAICHUR**
towards Research Article (Publication fee) JSSMR
Journal Cash/Cheque/D.D.No. Date 30/5/2021

₹ 2300/-

(Signature)
PRINCIPAL

L.V.D. College, RAICHUR-03.

Signature

(Dr. Shri)
Dr. Shivraj

Article Title: "Acute oral toxicity study of "Polyherbal formulation
(Rosmarinus officinalis, Ashwagandha and Amla) in Wistar rats"



AkiNik Publications

Payment Receipt

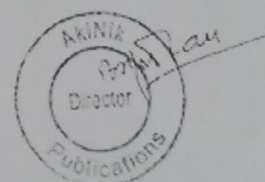
Paid Online

169, C-11, Sector-3, Rohini-110085, New Delhi,
India

Date: 31/05/2021 **Txn. No.:** YM1622457994XR

Bill To: Dr. SHIVARAJ Y

S. No.	Description	Price
1.	Publication Charge with Hard Copy Journal: International Journal of Mosquito Research Article Ref. No.: Mos-8-3-7 Article Title: "Acute oral toxicity study of "Polyherbal formulation (Rosmarinus officinalis, Ashwaghandha and Amla) in Wistar rats"	Rs. 2,000.00
Total		Rs. 2,000.00





AkiNik Publications

Payment Receipt

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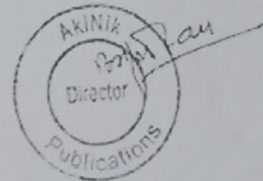
169, C-11, Sector-3, Rohini-110085, New Delhi,
India

Date: 31/05/2021

Txn. No.: CT1622458313XH

Bill To: Dr. SHIVARAJ Y

S. No.	Description	Price
1.	DOI Charge Journal: International Journal of Mosquito Research Article Ref. No.: Mos-8-3-7 Article Title: "Acute oral toxicity study of "Polyherbal formulation (Rosmarinus officinalis, Ashwaghandha and Amla) in Wistar rats"	Rs. 300.00
Total		Rs. 300.00





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Dr. Shivaraj Y
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Kaveri KR
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Dr. Asiya Nuzhat FB
Department of Studies and
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University, Tumakuru,
Karnataka, India

Rajesh R
Liveon Biolabs Pvt. Ltd., A
Multi-Division Contract
Research Organization,
Antharasanahalli, Tumakuru,
Karnataka, India

Corresponding Author:
Dr. Shivaraj Y
Assistant Professor, Department
of Zoology, LVD College,
Raichur, Karnataka, India

Acute oral toxicity study of “Polyherbal formulation (*Rosmarinus officinalis*, *Ashwagandha* and *Amla*) in Wistar rats”

Dr. Shivaraj Y, Kaveri KR, Dr. Asiya Nuzhat FB and Rajesh R

DOI: <https://doi.org/10.22271/j.entomoljournal.2021.v9.i4a.8752>

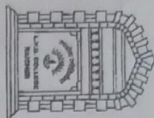
Abstract

Today in this present globe many part of the continents the use of herbal medicinal products and supplements has increased tremendously over the past three decades with not less than 80% of people worldwide trusting on them for some part of primary healthcare. The study was focused to evaluate the acute oral toxicity of polyherbal formulations (PHFs) and the developed polyherbal formulation includes three herbs viz. the roots of *Withania somnifera* (Ashwagandha), leaves of *R. officinalis* (Rosemary) and fruit of *Emblca officinalis* (Amla) detect the effect of this polyherbal formulation on higher mammals. The raw materials were standardized according to the WHO guidelines and the three holistic extracts were mixed in 1:1:1 ratio for further study by bio-guided method and also in combination to control and curing or managing of different diseases. However, to confirm the drug's safety and efficacy in the appropriate dosages we used healthy nulliparous and non-pregnant female Wistar Albino rats (*Rattus norvegicus*) with average body weight of 160 g - 180 g and age between 8–12 weeks were used through the experiments in the present study administered a single dose of 2000mg/kg of body weight by oral gavage in female Wistar rats the observation period of 14 days. The rats were maintained under standard laboratory conditions (room temperature of 22.1 to 24.6°C with optimal air cycle changes 12-15 per hour and relative humidity of 48-61 % with 12 hours light & dark cycle). The animals were fed with laboratory animal feed and UV sterilized drinking water was provided *ad-libitum* throughout the experimental period. Hence the present study is designed to test the acute (limit dose) toxicity of two herbal extracts of rosemary leaf and ashwagandha and amla root in Wistar rats following the OECD guidelines 423, which would help in suggesting the minimum safety level of herbal extracts.

Keywords: Acute oral toxicity, polyherbal formulation, bio-guided method, *Ad-libitum* and wistar rats

Introduction

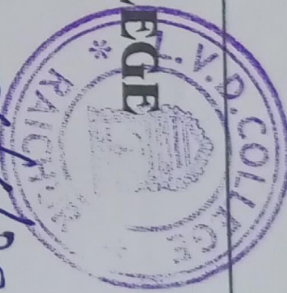
Today in this green planet the Plants are very useful to mankind. Many of them are used exclusively for medicinal purposes. According to the World Health Organization (WHO), “a medicinal plant is a plant which, in one or more of its organs, contains substances that can be used for therapeutic purposes, or which are pioneers for chemo-pharmaceutical semi-synthesis.” Such plants are in great demand by pharmaceutical companies for their active ingredients. Herbal care or traditional systems of medicine are used from ancient times; herbs have been the original source for most of the drugs. Today approximately 70% of the world population is depending on medicinal herbs. Medicinal plants contain so many chemical compounds which are the major source of therapeutic agents to cure human diseases and Herbal formulations have attained wide recognition in comparison to crude plant materials and extracts, due to reduction in dose levels, convenience and ease of administration. These formulations are popular worldwide as therapeutic agents, in various ailments that impact the quality of life of human beings. Recent research focus has shifted towards the use of herbal medicines due to their diverse biological activities, easy availability, cost effective in nature and safe usage. Polyphenols and flavonoids present in the medicinal plants have been shown to possess significant anticancer properties. The information of extractability of a plant provides an idea regarding the amount of extract present in a definite quantity of drug. The extractability also serves as a tool for quality control of plant-drug by ^[1] today the Herbal medicines are traditionally given in the form of polyherbal formulations (PHFs) as each ingredient is supposed to have different pharmacological function. Polyherbal formulations are usually prescribed to be taken for a longer period and hence may cause adverse effects in the patients, thereby deserving evaluation of their efficacy and safety profile.



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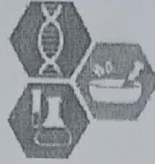
L.V.D. College, RAICHUR-03. (Dr. Selvi Varjiv)

Signature
Signature

DR. SNIVARAJ Yallappa

The book chapter titled "Green Synthesized Silver Nanoparticles shows Toxic Effect on Fish Tilapia, *Oreochromis mossambicus* (Peters)" is very well written and has been accepted for publication in edited book titled "Research Trends in Fisheries and Aquatic Sciences (Volume - 12)".

Yours Sincerely,



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Acceptance Letter

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Date: 31-05-2021

To,
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Yours Sincerely,

Akhil Gupta



Akhil Gupta
Manager
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Ref. No.: LTFAAH-02-03

Date: 31-05-2021

To,
Dear Dr. Shivaraj Yallappa

The book chapter titled "Non-toxic effect of Bacteria *Bacillus thuringiensis* (Serotype 14) crystal on fingerlings fish *Cyprinus carpio* against the mosquito larvae" is very well written and has been accepted for publication in edited book titled "Latest trends in Fisheries and Aquatic Animal Health (Volume - 2)".

Yours Sincerely,

Akhil Gupta



Akhil Gupta
Manager
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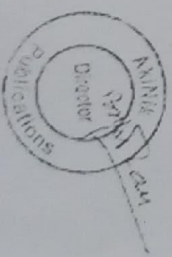
169, C-11, Sector-3, Rohini-110085, New Delhi,
India

Date: 07/06/2021

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S. No.	Description	Price
1.	Chapter Code: LTFAAH-02-03 Book Name: Latest trends in Fisheries and Aquatic Animal Health (Volume - 2) Chapter Name: Bacteria <i>Bacillus thuringiensis</i> (Serotype 14) Crystal Toxins Shows Non-Toxic Effects on Fingerlings Freshwater Fish <i>Cyprinus carpio</i> Against the Mosquito Larvae	Rs. 1500.00
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1.	Chapter Code: RTFAS-12-06 Book Name: Research Trends in Fisheries and Aquatic Sciences (Volume - 12) Chapter Name: Toxic Effect of Green Synthesized Silver Nanoparticles on Freshwater Fish Tilapia, <i>Oreochromis mossambicus</i> (Peters)	Rs. 1500.00
Total		Rs. 1500.00





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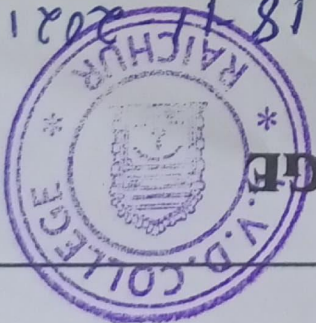
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(D.S. Manjunath)

participated in the UGC sponsored Online "Faculty Induction Programme" during
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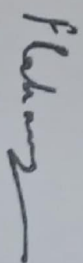
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Dr. Manjunath K, Assistant Professor in Zoology, Laxmi Venkatesh Desai College, Near Gyan Mandir, Manik Prabhu Temple Road Raichur, Karnataka,584103,India has participated in the UGC sponsored Online "Faculty Induction Programme" during 22nd November 2021 to 21st December, 2021 organized by UGC-Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad, Telangana.

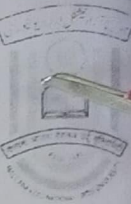
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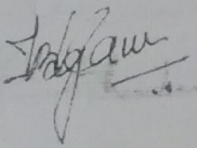
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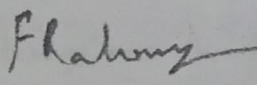


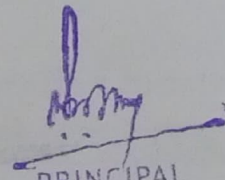
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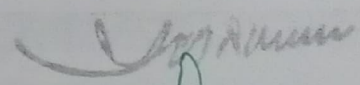
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This is to certify that, **Dr. Manjunath K**, *Assistant Professor in Zoology*, Laxmi Venkatesh Desai College, Near Gyan Mandir, Manik Prabhu Temple Road Raichur, Karnataka, 584103, India participated and successfully completed UGC sponsored online "Faculty Induction Programme" organized by UGC - Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad from 22nd November to 21st December, 2021 and obtained Grade "A".


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Director


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Vice Chancellor
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Signature

participated in the UGC sponsored Online "Faculty Induction Programme" during 22nd November 2021 to 21st December, 2021 organized by UGC-Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad, Telangana.

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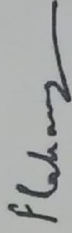
Reg. No. MANUU/UGC-HRDC/FIP-3/2021-22/41

Date: 21st December, 2021

ATTENDANCE/RELIEVING CERTIFICATE

Mr. Hanamantray, Assistant Professor in Zoology, Laxmi Venkatesh Desai College, Manik Prabhu Temple Rd, Near Gyan Mandir, Ashok Nagar, Raichur, Karnataka 584103 has participated in the UGC sponsored Online "Faculty Induction Programme" during 22nd November 2021 to 21st December, 2021 organized by UGC-Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad, Telangana.

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21st December 2021

This is to certify that, **Mr. Hanamantray**, *Assistant Professor in Zoology*, Laxmi Venkatesh Desai College, Manik Prabhu Temple Rd, Near Gyan Mandir, Ashok Nagar, Raichur, Karnataka 584103 participated and successfully completed UGC sponsored online "Faculty Induction Programme" organized by UGC - Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad from 22nd November to 21st December, 2021 and obtained Grade "A".

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Vice Chancellor

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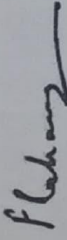
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Mr. Husenappa, Assistant Professor in Mathematics, Laxmi Venkatesh Desai College, L. V. D. Manik Prabhu Temple Road, Raichur -584103 has participated in the UGC sponsored Online "Faculty Induction Programme" during 22nd November 2021 to 21st December, 2021 organized by UGC-Human-Resource Development Centre, Maulana Azad National Urdu University, Hyderabad, Telangana.

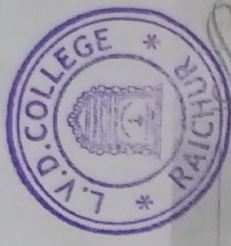
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21st December 2021

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Jagannath

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Flahmy

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M. M. M. M.

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M. M. M. M.

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[Signature]
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(Dr. Keishna Namdev)

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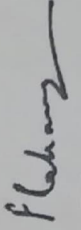
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Date: 21st December, 2021

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Dr. Krishna Namdev, Assistant Professor in Political Science, L V D College, Manik Prabhu Temple Road, Raichur Karnataka has participated in the UGC sponsored Online "Faculty Induction Programme" during 22nd November 2021 to 21st December, 2021 organized by UGC-Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad, Telangana.

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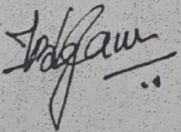
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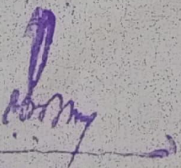


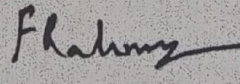
Regd. No. MANUU/UGC-HRDC/FIP-3/2021-22/04

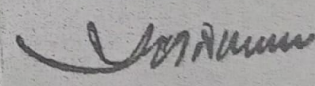
21st December 2021

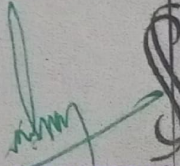
This is to certify that, **Dr. Krishna Namdev**, Assistant Professor in Political Science, L V D College, Manik Prabhu Temple Road, Raichur Karnataka participated and successfully completed UGC sponsored online "Faculty Induction Programme" organized by UGC - Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad from 22nd November to 21st December, 2021 and obtained Grade "A".


Coordinator


PRINCIPAL
L.V.D. College, RAICHUR.


Director


Vice Chancellor

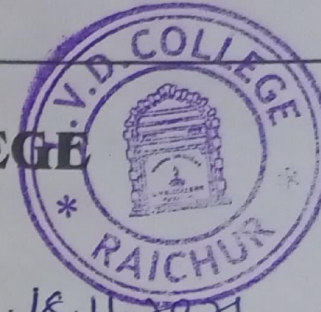

PRINCIPAL
L.V.D. College, RAICHUR-03.



Taranath Shikshana Samsthe

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No. : **338**

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Date: 18.11.2021

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towards..... Registration fees for FIP

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₹ 1500/-

Principal

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L.V.D. College, RAICHUR-03.

Signature

(Rajbabbar B.R.)

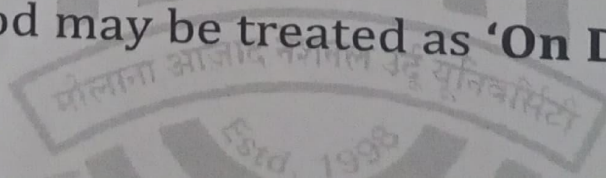
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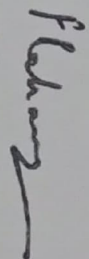
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Date: 21st December, 2021

ATTENDANCE/RELIEVING CERTIFICATE

Mr. Rajbabbar Babu Rathod, Assistant Professor in Physics, Laxmi Venkatesh Desai College, Opposite Krishna Mandir Raichur 584103 has participated in the UGC sponsored Online "Faculty Induction Programme" during 22nd November 2021 to 21st December, 2021 organized by UGC-Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad, Telangana.

The above course period may be treated as 'On Duty'.


Director



भारत-विज्ञान विभूतये

UNIVERSITY GRANTS COMMISSION
HUMAN RESOURCE DEVELOPMENT CENTRE

मौलाना आजाद नेशनल उर्दू यूनिवर्सिटी
مولانا آزاد نیشنل اردو یونیورسٹی

MAULANA AZAD NATIONAL URDU UNIVERSITY
(A Central University, accredited "A" Grade by NAAC)

UGC - Sponsored Online

"Faculty Induction Programme"
(22nd November to 21st December, 2021)

Regd. No. MANUU/UGC-HRDC/FIP-3/2021-22/42

21st December 2021

This is to certify that, **Mr. Rajbabbar Babu Rathod**, Assistant Professor in Physics, Laxmi Venkatesh Desai College, Opposite Krishna Mandir Raichur 584103 participated and successfully completed UGC sponsored online "Faculty Induction Programme" organized by UGC - Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad from 22nd November to 21st December, 2021 and obtained Grade "A".

Coordinator

Director L.V.D. College, RAICHUR.

PRINCIPAL

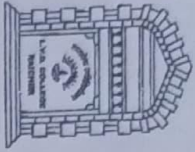
Vice Chancellor

PRINCIPAL

L.V.D. College, Raichur

UNIVERSITY GRANTS COMMISSION
HUMAN RESOURCE DEVELOPMENT CENTRE





Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE

RAICHUR - 584 103.

No. : **094**

RECEIPT

Date : 18.11.2021


Received with thanks a sum of Rs. (in Figure)..... 1500/-

(Rupees..... fifteen hundred only.....)

from the Principal LAXMI VENKATESH DESAI COLLEGE, RAICHUR
towards..... Registration for FIP.....

..... Cash/Cheque/D.D.No. Date 18.11.2021

Principal


Signature
O.S. Gayathri

₹ 1500/-



सर्वोच्च शिक्षण समिती

UNIVERSITY GRANTS COMMISSION
HUMAN RESOURCE DEVELOPMENT CENTRE

मौलाना आजाद नॅशनल उर्दू युनिवर्सिटी
مولانا آزااد نيشنل اردو یونیورسٹی

MAULANA AZAD NATIONAL URDU UNIVERSITY

(A Central University, accredited "A" Grade by NAAC)

UGC - Sponsored Online

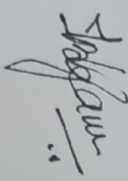
"Faculty Induction Programme"


(22nd November to 21st December, 2021)

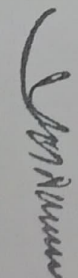
Regd. No. MANUU/UGC-HRDC/FIP-3/2021-22/15

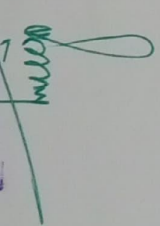
21st December 2021

This is to certify that, **Dr. Gayatri Y, Assistant Professor in Sociology**, Laxmi Venkatesh Desai College, L. V. D. Manik Prabhu Temple Road Raichur -584103 participated and successfully completed UGC sponsored online "Faculty Induction Programme" organized by UGC - Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad from 22nd November to 21st December, 2021 and obtained Grade "A".


Coordinator


Director


Vice Chancellor


PRINCIPAL
L.V.D. College, RAICHUR-03.



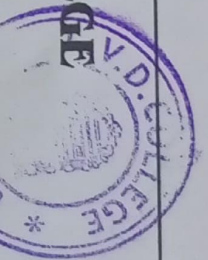
2021-22

2021-22

11



Taranath Shikshana Samsitha
LAXMI VENKATESH DESAI COLLEGE
 RAICHUR - 584 103.



No. : **100**

RECEIPT

Date : 21/01/2020

Received with thanks a sum of Rs. (in Figure) **1000/-**

(Rupees **Thousand rupees only**.....)

from the Principal **LAXMI VENKATESH DESAI COLLEGE, RAICHUR**

towards **Registration fees for Refresher course**

..... Cash/Cheque D.D.No. Date **21/01/2020**

₹ **1000/-**

Principal
PRINCIPAL
 (Dr. Prasanna Kumar)
 L.V.D. College, RAICHUR-03

Signature
 (Dr. Prasanna Kumar)

Principal of **Laxmi Venkatesh Des**

College, Raichur, Karnataka State has attended UGC sponsor

Refresher Course in Life Sciences organized by UGC- Human Resour

Development Centre, Sant Gadge Baba Amravati University, Amravati duri

the period from 07/01/2020 to 20/01/2020 and has been relieved

20/01/2020 Afternoon.

nkara
 HRDC
 arsi
 -602
 2020
 2020

UGC-HUMAN RESOURCE DEVELOPMENT CENTRE
SANT GADGE BABA AMRAVATI UNIVERSITY
AMRAVATI (M.S.)

Phone : 0091-721- 2551174, 2662208
: Ext. - 306 (Off.)
Fax : 0091-721- 2662135, 266094
Website: www.ascsgbau.ac.in
Email : asc.sgbau@rediffmail.com

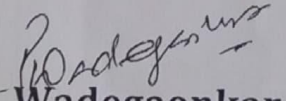


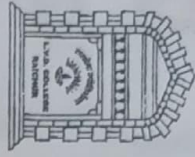
Dr. P. A. Wadegaonkar
I/C Director , UGC- HRDC
S.G.B. Amravati University
Amravati (M. S.) 444-602
INDIA

SGBAU/ UGC -HRDC/174/2020
Date: 20/01/2020

RELIEVING CERTIFICATE

This is to certify that Dr. Prashantkumar of Laxmi Venkatesh Des
College, Raichur, Karnataka State has attended UGC sponsor
Refresher Course in Life Sciences organized by UGC- Human Resour
Development Centre, Sant Gadge Baba Amravati University, Amravati duri
the period from 07/01/2020 to 20/01/2020 and has been relieved
20/01/2020 Afternoon.

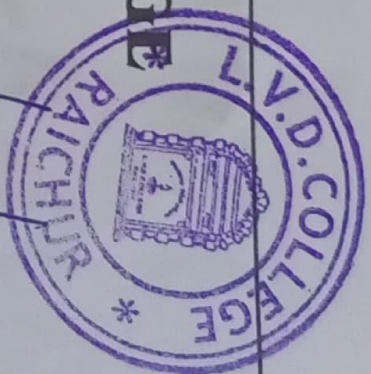

Dr. P. A. Wadegaonkar
I/C Director
UGC-Human Resource Development Centr
Sant Gadge Baba Amravati University, Amravati



Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE

RAICHUR - 584 103.



No. : **321**

RECEIPT

Date : 01/04/2020

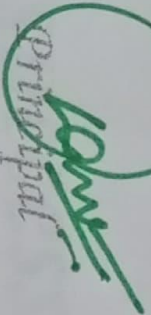
Received with thanks a sum of Rs. (in figure)..... 1000/-

(Rupees..... one thousand rupees only.....)

from the Principal LAXMI VENKATESH DESAI COLLEGE, RAICHUR

towards..... Certificate covers

..... Cash/Cheque/D.D.No. Date 01/04/2020


Principal

Signature

PRINCIPAL

(~~Signature~~)

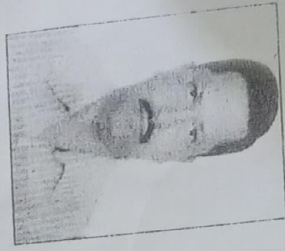
₹ 1000/-

L.V.D. College, RAICHUR-03

(Sharnagunda.B.H)

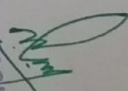
Fifteen Day Online Certificate Course on Research Methodology

from 04-April-2020 to 19-April-2020



Sharnagouda B.H.

This is to certify that Mr./Ms. Sharnagouda B.H. has successfully completed the Course with a Secured 76% Marks and achieved Grade of *A*, Remark Excellent, April 2020.


PRINCIPAL
L.V.D. College, RAICHUR-03.

Course Founder



DR. ASHOK YAKKALDEVI

Course Director

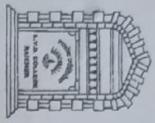


DR. T. MANICHANDER

Authorized by,



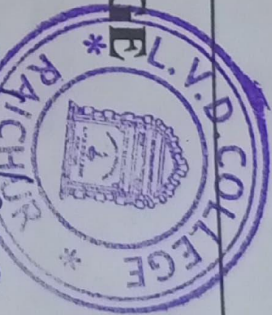
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Email: lbpcourse@gmail.com
aystf2011@gmail.com
Website: lbp.world



Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE

RAICHUR - 584 103.



No. : **320**

RECEIPT

Date : 17/01/2020

Received with thanks a sum of Rs. (in figure)..... 5000/-

(Rupees..... five thousand rupees only.....)

from the Principal LAXMI VENKATESH DESAI COLLEGE, RAICHUR towards..... AZRA Jete membership,

..... Cash/Cheque/D.D.No. Date: 17/01/2020

₹ 5000/-

Principal
PRINCIPAL

L.V.D. College, RAICHUR-03.

Signature
Dr. Shivraj Y.

Address	Photo (passport size & coloured)
Email, mobile or phone number	C/o Dr. Shivraj Y, Assistant Professor, Department of Zoology LV D College Raichur – 584103, Karnataka, India. shivrajmetigouda@gmail.com and +91-8971316472
Date & place of birth	06/06/1986 (06 th June 1986) and Sindhnur Taluk: Raichu District: Karnataka, India.
Highest qualification	M.Sc., Ph.D. in Zoology
Area of research interest	Environmental Science & Toxicology (Mammalian & Ecotox)
Life Membership Fee (Account transfer)	Rs. 5000/- Five thousand only



Applied Zoologists Research Association, (AZRA),
K9-B/285 Bhagabampur, Patrapada
Bhubaneswar-751019, Odisha, India

AZRA Life Membership Form

Name	Dr. Shivaraj Y
Address	Photo (passport size & coloured) C/o Dr. Shivaraj Y, Assistant Professor, Department of Zoology LVD College Raichur – 584103, Karnataka, India. shivrajmetigouda@gmail.com and +91-8971316472
Email, mobile or phone number	
Date & place of birth	06/06/1986 (06 th June 1986) and Sindhnur Taluk: Raichu District: Karnataka, India.
Highest qualification	M.Sc., Ph.D. in Zoology
Area of research interest	Environmental Science & Toxicology (Mammalian & Ecotox)
Life Membership Fee (Account transfer)	Rs. 5000/- Five thousand only
Account transfer the name of:	“Applied Zoologists Research Association” payable at SBI, Nay Bazar, Cuttack (Bank code 2094)
Account Number & Name of Bank	10329386022 and State Bank of India
IFS Code	SBIN0002094
MICR Number	753002016
Form along with DD may send to	Dr. Anand Prakash General Secretary, AZRA K9-B/285 Bhagabampur, Patrapada Bhubaneswar-751019, Odisha, India Mobile : 9337110294, email: prakas52@yahoo.com

Signature of the Candidate:

(Dr. Shivaraj Y)

Date: 15-07-2020
Place: Raichur



₹ 5,000

Paid to
Applied Zoologists Research
Association

✓ Paid ₹ 5,000
Jul 15, 2020 • 8:22 PM



₹ 5,000

- ✓ Payment started
- ✓ Payment processed by partner bank
- ✓ Money deposited in recipient's bank

UPI transaction ID
019720293927

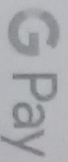
To
**** 6022

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shivaraajmetigouda@oksbi

Google transaction ID
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**Applied Zoologists Research Association,
(AZRA)**

**K9-B/285 Bhagabanpur, Patrapada,
Bhubaneswar-751019, Odisha, India**

PAN- AAGAA6644K; Email: prakass52@yahoo.com Mobile-9337110294

Dr. Anand Prakash

Ex. Director & Head, Crop Protection, ICAR-NRRI, Cuttack
Founder & General Secretary, AZRA, India
Managing Editor, Journal of Applied Zoological Researches

Ref.: AZRA-LM-345/2020
Date: 16 July, 2020

AZRA - Life Membership Certificate

This is to certify that **Dr. Shivaraj Y** Assistant Professor,
Department of Zoology, L.V.D. College, Raichur-584 103,
Karnataka, India, has been enrolled as “**Life Member of Applied
Zoologists Research Association**” (AZRA) from the year 2019.
His Life Membership number is L345/20 for future correspondence.

A. Prakash
Dr. Anand Prakash
General Secretary



Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE

RAICHUR - 584 103.

RECEIPT

Date: 14/12/2020

.....

Received with thanks a sum of Rs. (in figure) 1000/-

(Rupees.....)

from the Principal LAXMI VENKATESH DESAI COLLEGE, RAICHUR
towards Registration fee for short term course

Cash/Cheque/D.D.No.
Date.....

₹ 1000/-

Principal

Signature

L.V.D. College, RAICHUR-03 / Sri. Shivayyasaheb H.





DEPARTMENT OF COLLEGIATE EDUCATION
 GOVERNMENT FIRST GRADE COLLEGE,
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CERTIFICATE OF PARTICIPATION

Sharnagouda B H

FROM

Laxmi Venkatesh Desai College, Raichur-584101

has participated and completed "One week short term course on Online National Level Computer Literacy Program which includes Fundamentals of Computing & Information Technology" organized by Department of Computer Science, GFGC - Harihara from 18th May to 24th May 2020.

Gururaj J.P
 Convener
 GFGC, Harihara

Suresh G.S
 IQAC
 GFGC, Harihara

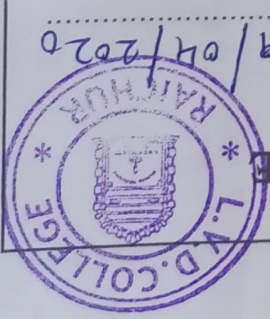
S.P Ahuja
 Principal
 IGCMT, Abhipur

B.C Tahasildar
 Principal
 GFGC, Harihara

PRINCIPAL

L.V.D. College, Raichur-03.





LAXMI VENKATESH DESAI COLLEGE
Taranath Shikshana Samsathe
RAICHUR - 584 103.



RECEIPT

No.: **319**

Date: 09/04/2020

Received with thanks a sum of Rs. (in figure) 5000/-
(Rupees: five thousand rupees)

from the Principal LAXMI VENKATESH DESAI COLLEGE, RAICHUR
towards ~~cash~~ Reviewer award and Lib membership

Cash/Cheque/D.D.No. Date 09/04/2020

(Signature)
Principal

₹ 5000/-

Signature

L.V.D. College, RAICHUR-03

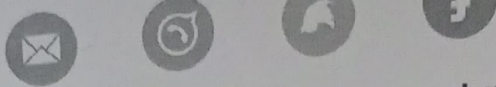
(Signature)
Dr. Shivureddy

Payment ID
Amount
Paid to
Paid on

INSC Publishing House (IPH)
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Shivaraj Metigouda <shivarajmetigouda@gmail.com>
To: shivaraj metigouda <shivarajmetigouda@gmail.com>

Thu, Apr 9, 2020 at 10:15 PM



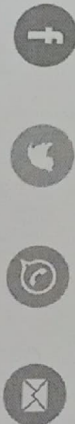
INSC Publishing House (IPH)

Payment Successful!

Payment ID	MOJ00409P05A37026576
Amount	₹ 5,000
Paid to	INSC Publishing House (IPH)
Paid on	Apr 09, 2020 at 10:35am

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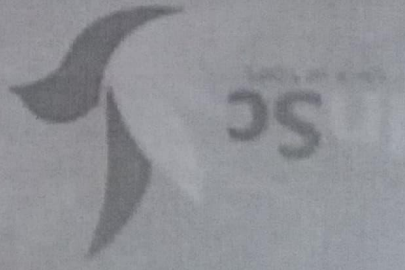
Purchase Details

Payment ID	MOJ00409P05A37026576
Buyer Name	Dr. SHIVARAJ Y
Buyer Email Address	shivrajmetigouda@gmail.com
Buyer Phone Number	8971316472
Purchase Date	April 9, 2020
Price	INR. 5000.00
Quantity Purchased	1
Total Purchase Amount	INR. 5000.00

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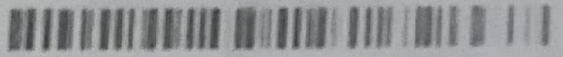
Name: Dr. Shivaraj Y

InSc Id: InSc20200382

Designation: Member

Zone: Karnataka

Membership Type: Professional



InSc20200382



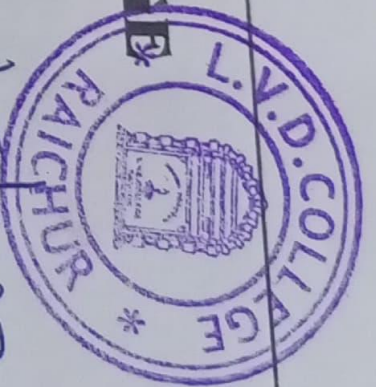
InSc Professional Membership with Lifetime Validity



Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE

RAICHUR - 584 103.



No. : **323**

RECEIPT

Date : 18/05/2020

Received with thanks a sum of Rs. (in Figure)..... 100/-

(Rupees..... Hundred rupees only.....)

from the Principal LAXMI VENKATESH DESAI COLLEGE, RAICHUR
towards..... Registration fee for FDP.....

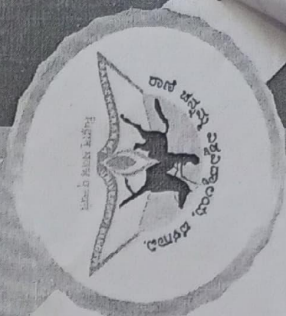
..... Cash/Cheque/D.D.No. Date.....

₹ 100/-

PRINCIPAL

Signature

L.V.D. College, RAICHUR-03. Sharanagrede. S.H



RANI CHANNAMMA UNIVERSITY

SANGOLLI RAYANNA FIRST GRADE CONSTITUENT COLLEGE

Anjaneya Nagar, Mal Maruti Extension, Belagavi, Karnataka - 590016

Certificate of Participation

This is to Certify that

Sharnagouda B. H.

Assistant Professor in Electronics

L.V.D. College, RAICHUR-584101



has successfully completed National Level One Week Online Faculty Development Programme On
"IMPACT OF COVID-19 ON INDIAN ECONOMY AND INDUSTRY"
held from 14 May 2020 to 20 May 2020.

Organised by

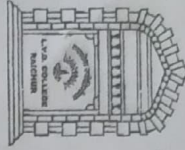
Sangolli Rayanna First Grade Constituent College of Rani Channamma University, Belagavi

A. S. Ramdurg
CMA Anil I. Ramdurg
Co-ordinator

Dr. M. Jayappa
Principal

Prof. Basavaraj Padmashali
Registrar

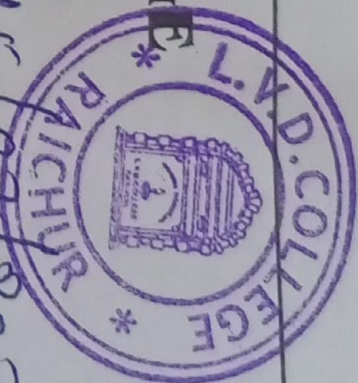
PRINCIPAL
Prof. M. Ramachandra Gowda
Vice Chancellor



Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE

RAICHUR - 584 103.



No. : **330**

RECEIPT

Date : 15/07/2020

Received with thanks a sum of Rs. (in Figure) 2000/-

(Rupees.....)

from the Principal **LAXMI VENKATESH DESAI COLLEGE, RAICHUR** towards..... Like membership for **ISCA** (The Indian science Congress association) Cash/Cheque/DD.No. Date 15/07/2020

₹ 2000/-

Principal
PRINCIPAL

L.V.D. College, RAICHUR-03

Signature
Dr. Shivarajji



भारतीय विज्ञान कांग्रेस संस्था

14, डॉ० बिशु गुहा स्ट्रीट, कोलकाता-700 017, भारत

THE INDIAN SCIENCE CONGRESS ASSOCIATION

14, Dr. Biresw Guha Street, Kolkata-700 017, INDIA

दूरभाष / Telephone : (033) 2287-4530, 2281-5323

फैक्स / Fax : 91-33-2287-2551

वेबसाइट / Website : <http://sciencecongress.nic.in>

ई-मेल / E-mail : es.sciencecongress@nic.in

सदस्यता के लिए नया आवेदन पत्र / Application Form For New Membership

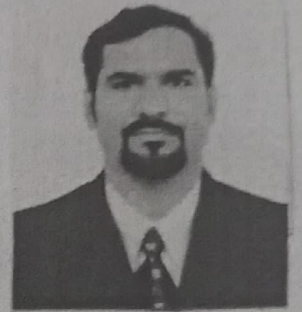
संख्या में 10

महानिदेशक (सदस्यता कार्य) / The General Secretary (Membership Affairs)

भारतीय विज्ञान कांग्रेस संस्था / The Indian Science Congress Association

14, डॉ० बिशु गुहा स्ट्रीट / 14, Dr. Biresw Guha Street,

कोलकाता-700 017 / Kolkata-700 017



महोदय / Dear Sir,

मैं भारतीय विज्ञान कांग्रेस संस्था का आजीवन सदस्य/वार्षिक सदस्य/सत्र सदस्य/छात्र सदस्य/संस्थान सदस्य/व्यक्तिगत दाता/संस्थागत दाता अपना नाम लिखवाना चाहता/चाहती हूँ।

I like to be enrolled as a Life Member/Annual Member/Sessional Member/Student Member/Institutional Member/Individual Donor/Institutional Donor of The Indian Science Congress Association. (Pl. Tick)

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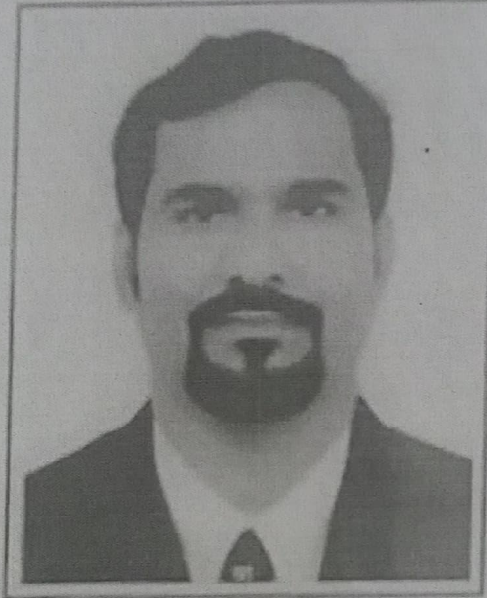
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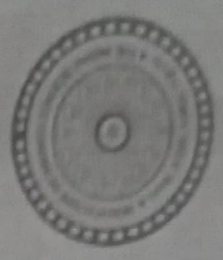
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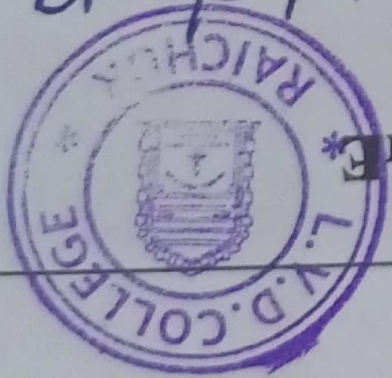
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BACILLUS THURINGIENSIS (SEROTYPE 14) CRYSTAL TOXINS SHOWS NON-TOXIC EFFECTS ON FINGERLINGS FRESHWATER FISH CYPRINUS CARPIO AGAINST THE MOSQUITO LARVAE.

DR. SHIVARAJ YALLAPPA*

Prof. C.N.R. Rao Research Centre for Advanced Materials in Tumkur University, Tumakuru-572103, Karnataka, India.
Department of Studies and Research in Zoology, Tumkur University, Tumakuru-572103, Karnataka, India.

ABSTRACT

In the present day situations, human being suffer a lot due to the unadoptable policies of Pesticides companies that produce different bacteria strains Pesticides companies and which produced different bacteria strains like *Bacillus thuringiensis*. (Serotype 14) Crystal toxins is a gram positive, rod shaped and aerobic soil bacteria. *B. thuringiensis* is a bacterium that is not toxic to terrestrial and aquatic living organisms and other mammals but is toxic to certain insects when ingested. *B. thuringiensis* works as an insecticide by producing a crystal-shaped protein (Cry toxin) that specifically kills certain insects. These bacteria produces a proteinaceous parasporal crystal in the sporangium at the time of sporulation. These proteins possess insecticidal properties and are called Bt-toxins or delta endotoxins and also called as Insecticidal Crystal Proteins (ICPs). It is not a single toxin but a class of toxic proteins produced from protoxin that are degraded by proteolytic enzyme to form smaller toxic peptides. In this study, the mosquito larvae are considered as first predators which feed on some protozoans and bacteria, and fingerlings freshwater fishes are considered as the secondary predators which feed on *B. thuringiensis* induced mosquito larvae. The fixation of concentration levels to larva was 9 gm of (Serotype 14) *Bacillus thuringiensis* induced to 10 liter of water which contains 100 mosquito larvae and 10 fishes were consumed by the entire larva and the exposure periods were Day-1 to Day-30 and Recovery Period will be 15 days since during these days there is no toxicity of *B. thuringiensis* on fishes were conformed. When these larvae feed on Bacteria, *B. thuringiensis* show behavioral changes like erratic swimming, slow motility and the larvae move towards the surface of water and regurgitation and sudden mortality were observed because of Bt-crystals effects on enzyme present in the larvae i.e. cytochrome-c-oxidases due to oxidative stress and the liberated crystal toxin like Cry-II and Cry-IV bind into the larva gut cell membrane it shows the paralyzes the digestive tract and forming a pore in that regions and results in the death of the mosquito larvae. The current study shows that *B. thuringiensis* bacteria produces toxins in nature and it shows the effect against the mosquito larvae but (Serotype 14) Crystal toxins shows non-toxic effects on fingerlings freshwater fish *Cyprinus carpio*.

Keywords: *Bacillus thuringiensis* (Serotype 14) bacteria, Crystal toxins, Behavioral, Mosquito larvae & Fish *Cyprinus carpio*.



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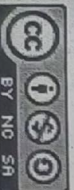
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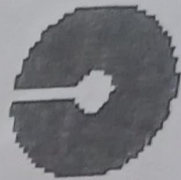
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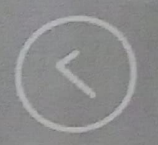
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Toxic effect of green synthesized silver nanoparticles on freshwater fish tilapia, *Oreochromis mossambicus* (Peters)

**Dr. Shivraj Yallappa, Kaveri KR, Dr. Asiya Nuzhat FB and
Dr. Vijaykumar K**

Abstract

An eco-friendly synthesis of silver nanoparticles (AgNPs) from silver nitrate solution using aqueous Apple fruit extract was investigated. The reduction of silver ions in solution was monitored using UV-visible absorption spectroscopy and morphological analysis was studied by transmission electron microscopy. Short term definitive test by static renewal bioassay method was conducted to determine the acute toxicity (LC₅₀) of green synthesized silver nanoparticles on freshwater fish fingerlings were exposed to different concentrations and the fixed doses 50mg/L for 96hrs, 100mg/L for 96hrs, 150mg/L for 96hrs, 200mg/L for 96hrs and 250mg/L for 96hrs were selected for acute study on fish Tilapia, *Oreochromis mossambicus* procured from Fisheries Research and Information Centre (Inland) Hebbal, Bangalore, Karnataka, India. The size of the fish was (30 ± 35 g; 13 ± 14 cm) and changes in behaviour and bodyweight of a freshwater fish, Tilapia, *Oreochromis mossambicus*. The results of the study evidenced that green synthesized silver nanoparticles is non-toxic but it has led to the altered fish physiology for long term of exposure. However the exact mechanism through which this is achieved needs to be studied further.

Keywords: Green synthesis, AgNPs, characterization, toxicity studies and *Oreochromis mossambicus* (Peters)

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Nano science and technology is one of the rapidly growing fields as it has potential applications in the fields of information and communication technologies, biotechnology and medicine, optoelectronics and solar-cell. Nano science and nanotechnology primarily deal with the synthesis, characterization and exploration of various kinds of nanostructured materials. Nanostructures constitute a bridge between molecules and infinite bulk systems. Individual nanostructures include clusters, quantum dots, Nano crystals, nanowires, and nanotubes while collections of nanostructures involve arrays, assemblies, and super lattices of the individual nanostructures (Rao C N *et al.*, 2001) [40]. The uniqueness of the structural characteristics, energetics, response, dynamics and chemistry of nanostructures constitutes the basis of Nano science. In general, the nanomaterial have very large surface area to volume ratio due to their small size which brings out new physical and chemical properties compared to their bulk counterparts. The mechanisms of the property change in the material include size dependent quantum confinement effects, change of dimensionality of the system and so on. The properties of materials with nonmetric dimensions are significantly different from those of atoms or bulk materials. The Nano science and technology have grown rapidly especially from the last two decade, due to the ease of use of advanced characterization techniques as well as large number of synthesis methods for nanomaterial.

Nanoparticles can be broadly classified into two groups: Organic nanoparticles and Inorganic nanoparticles. Organic nanoparticle are carbon nanoparticle (fullerenes) and inorganic nanoparticles are magnetic nanoparticle, noble nanoparticle (Au and Ag), semiconductor nanoparticle (TiO₂ and ZnO). Especially inorganic nanoparticles have created attention towards itself due to its superior material properties with versatile functions. Due to nano size feature it is easily used for chemical imaging drug agents and drugs.



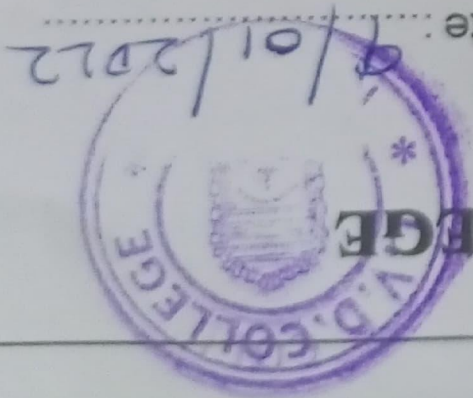
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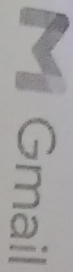
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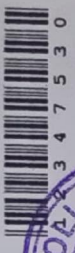
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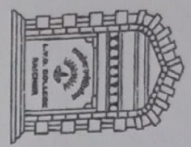
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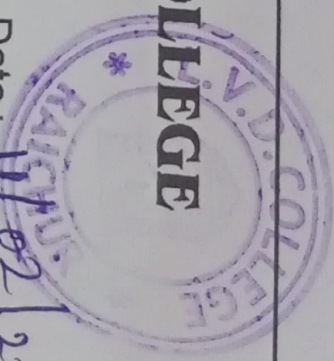
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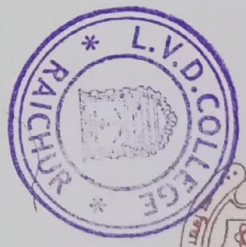
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