



ShikshanPrasarak Mandal, Kamptee's

SETH KESARIMAL PORWAL COLLEGE OF ARTS & SCIENCE & COMMERCE, KAMPTEE-441001

Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

NAAC Accredited with 'A' Grade

Ref.SKP/DC: 209

Date: 11.01.2023

: Project Dissertation Notification:


It is notified for general information that the following students were carried out their project dissertation work at Place for Higher Learning and Research Center, Post Graduate Department of Chemistry leading to M.Sc. degree in the subject Chemistry in the faculty of Science and Technology in the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur in the year 2022.

Sr. No.	Name of Students	Class	Date of Admission	Title of Dissertation	Date of Presentation	Name of Supervisors	Date of Award
01	Ms. Naina Kale	M.Sc. Final	23/07/2020	Facile Synthesis of $\text{Fe}_3\text{O}_4\text{-CuO}$ Heterostructure NCs for Anti-microbial study	29/05/2022	Dr. Sudip Mondal	29/7/2022
02	Ms. Nikita Bhure	M.Sc. Final	29/07/2020	Synthesis of Ferrous Aluminium Oxide NPs for the removal of EBT in Aqueous solution	29/05/2022	Dr. Sudip Mondal	29/7/2022
03	Ms. Puja Tikam	M.Sc. Final	23/07/2020	Biogenic synthesis of $\text{NiMoO}_4\text{-rGO}$ -based NCs and it's Antibacterial Assay	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
04	Mr. Kapil Wasnik	M.Sc. Final	23/07/2020	Green synthesis of Ni doped CuFe_2O_4 NPs by using leaf extract of Plant Prosopis Cineraria and its antibacterial assay	29/05/2022	Dr. Sudip Mondal	29/7/2022
05	Ms. Ritika Jaiswal	M.Sc. Final	18/07/2020	Green synthesis of CuFe_2O_4 NCs by using leaf extract of Plant Prosopis Cineraria and its antibacterial assay	29/05/2022	Dr. Sudip Mondal	29/7/2022
07	Ms. Shivani Rannaware	M.Sc. Final	19/07/2020	Phytosynthesis of $\text{Ce-BiMoO}_6\text{-rGO}$ NCs for Antibacterial Activity	29/05/2022	Dr. R.G. Chaudhary	29/7/2022


07	Mr. Caitanya Sajja	M.Sc. Final	21/07/2020	Phytosynthesis of BiMoO ₆ -rGO NCs by using Oxalis stricta Plant and its Antibacterial Activity	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
08	Ms. Neelu Shukla	M.Sc. Final	19/07/2020	Synthesis of g-C ₃ N ₄ -Ag ₂ WO ₄ based Nanocomposites by Using Co-precipitation method	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
09	Ms. Bhagyashree Chindalore	M.Sc. Final	24/07/2020	Synthesis of graphene Oxide and reaction with sulfonamide	29/05/2022	Dr. Sudip Mondal	29/7/2022
10	Mr. Ajinkya Kharwade	M.Sc. Final	19/07/2020	Green Synthesis of NPs MnFe ₂ O ₄ -rGO based NCs and their adsorption study on different Dyes	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
11	Ms. Anjali Nayak	M.Sc. Final	19/07/2020	Facile Phytoconstruction of BiVO ₄ -rGO based Nanocomposite for Photodegradation of dye	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
12	Ms. Swati Sambhare	M.Sc. Final	27/07/2020	Bio-inspired synthesis of g-C ₃ N ₄ /BiVO ₄ based Nanocomposite and their application for photodegradation of reactive yellow dye	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
13	Ms. Pooja Sable	M.Sc. Final	27/07/2020	Green synthesis of MnCo ₂ O ₄ NCs for the adsorption study of reactive orange and Malachite green dye	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
14	Mr. Subham Tripathy	M.Sc. Final	27/07/2020	Green synthesis of MnCo ₂ O ₄ -rGO NCs for the adsorption study of reactive orange and Malachite green dye	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
15	Ms. Yogita Deshmukh	M.Sc. Final	27/07/2020	Green Synthesis of NPs MnFe ₂ O ₄ based NCs and their adsorption study on different Dyes	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
16	Ms. Sweta Pounikar	M.Sc. Final	27/07/2020	Synthesis of Bambo leaf to SiO ₂ NPs	29/05/2022	Dr. Sudip Mondal	29/7/2022
17	Ms. Sweta Nikaju	M.Sc. Final	27/07/2020	Green Synthesis of Zr-CoFe ₂ O ₄ / rGO-based NCs and their antimicrobial assay	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
18	Ms. Anjali Bawankar	M.Sc. Final	27/07/2020	Influences of surfactants on the morphology behaviors of MnFe ₂ O ₄ NPs	29/05/2022	Dr. Sudip Mondal	29/7/2022
19	Mr. Dhiraj Raut	M.Sc. Final	27/07/2020	Influences of surfactants on the morphology behaviors of CuO NPs	29/05/2022	Dr. Sudip Mondal	29/7/2022

20	Mr. Aniket Kahate	M.Sc. Final	27/07/2020	Graphene Based metal/Polymer Nanocomposites and adsorption phenomenon	29/05/2022	Dr. Sudip Mondal	29/7/2022
21	Mr. Gaurav Mankar	M.Sc. Final	27/07/2020	Green Synthesis of Pt-NiO-rGO nanoplates for antimicrobial activity	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
22	Ms. Pallavi Meshram	M.Sc. Final	27/07/2020	Influences of surfactants on the morphology behaviors of ZnO NPs	29/05/2022	Dr. Sudip Mondal	29/7/2022
23	Ms. Ankita Pawankar	M.Sc. Final	27/07/2020	Influences of surfactants on the morphology behaviors of ZnO NPs	29/05/2022	Dr. Sudip Mondal	29/7/2022
24	Ms. Divya Wasnik	M.Sc. Final	27/07/2020	Biosynthesis synthesis of Ce-Bi ₂ O ₃ -rGO NCs for photocatalytic activity	29/05/2022	Dr. R.G. Chaudhary	29/7/2022
25	Mr. Pranjali Mahadule	M.Sc. Final	27/07/2020	Influences of surfactants on the morphology behaviors of ZnO NPs	29/05/2022	Dr. Sudip Mondal	29/7/2022
26	Ms. Puja Zade	M.Sc. Final	27/07/2020	Green synthesis of Co-NiFeO ₄ -rGO NCs for antibacterial activity	29/05/2022	Dr. Sudip Mondal	29/7/2022
27	Ms. Shikha Bagade	M.Sc. Final	27/07/2020	Influences of surfactants on the morphology behaviors of ZnO NPs	29/05/2022	Dr. Sudip Mondal	29/7/2022

Date: 11.01.2023


Dr. R.G. Chaudhary
P.G. Coordinator & Head
Dr. R. G. Chaudhary
Head & Coordinator
Post Graduate Deptt. of Chemistry
S. K. Porwal College, Kamptee




Prof. Dr. V. N. Chavan
Principal
Principal
S.K. Porwal College of Arts, Science
and Commerce, Kamptee

A Project Report on
**Facile Synthesis of Fe₃O₄-CuO Heterostructure Nanocomposite for the
Antimicrobial Studies**

SUBMITTED TO
**RASHTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY,
NAGPUR**

For the partial fulfilment of degree of
Master of Science In Chemistry
In the faculty of Science and Technology

Submitted by
Miss. Naina Pandit Kale
M.Sc-II (Sem-IV)
Under the guidance of
Dr. Sudip Mondal
Assistant professor,
Post Graduate Department of Chemistry,
Seth Kesarimal Porwal College of Arts, Science
&Commerce, Kamptee- 441001.



Place of Research Work
Post Graduate Department of Chemistry
Seth Kesarimal Porwal College of Arts, Science Commerce, Kamptee-
441001

Synthesis of Ferrous Aluminium Oxide Nanoparticle For The Removal Of EBT In Aqueous Solution

Submitted To

Rashtrasant Tukadoji Maharaj Nagpur University

For the partial fulfillment of Degree Master

Of Science

In chemistry in the faculty of science and technology

Submitted by

Miss. Nikita Ankaji Bhure

(M. Sc-Sem IV)

Under the guidance

Dr. Sudip Mondal

Assistant professor

Post Graduate Department of chemistry

Seth kesarimal porwal College of Arts, science &commerce, kamptee-441401



Place of Research Work

Seth kesarimal porwal College of Art,Science & commerce

Kamptee-441001

Project Report
on
**Biogenic synthesis of NiMoO₄-rGO- based Nanocomposites and it's antibacterial
assay**

SUBMITTED TO
RASHTRASANTTUKDOJI MAHARAJ NAGPUR UNIVERSITY,
NAGPUR

For the partial fulfilment of degree of
Master of Science
In Chemistry in the faculty of Science and Technology
Submitted by

Miss. Puja Satish Tikam
M.Sc-II (Sem-IV)

Under the guidance of

Dr. Ratiram Gomaji Chaudhary

Assistant professor and Head
Post Graduate Department of Chemistry,
Seth Kesarimal Porwal College of Arts, Science & Commerce,
Kamptee- 441001.



Place of Research Work
Post Graduate Department of Chemistry
Seth Kesarimal Porwal College of Arts, Science Commerce, Kamptee -441001
March 2022- May 2022

A

PROJECT REPORT

ON

Green synthesis of Nickel doped Copper Ferrite Nano-particles by using leaf extract of plant *Prosopis cineraria* and its antibacterial assays

To be submitted to the

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

In partial fulfilment of the requirements for the degree of

MASTER OF SCIENCE

In chemistry

In the faculty of science

By

Mr. Kapil Deepak Wasnik

Under the supervision of

Dr. Sudip.A. mondal Sir

Assistant Professor

Seth Kesarimal Porwal College of Arts, Science and Commerce,

Kamptee



POST GRADUATE DEPARTMENT OF CHEMISTRY

Seth Kesarimal Porwal College of Arts, Science and Commerce,

Kamptee-441001

2021-22

1

See
29/6/2022
Dr. S. R. Zodare

A

PROJECT REPORT

ON

Photosynthesis of $\text{BiMoO}_4/\text{rGO}$ Nanocomposites by using
oxalis stricta plant and its antibacterial assays

To be submitted to the

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

In partial fulfilment of the requirements for the degree of

MASTER OF SCIENCE

In chemistry

In the faculty of science

By

Mr. Chaitanya S. Saija

Under the supervision of

Dr. R. G. Chaudhary

Assistant Professor and Head



POST GRADUATE DEPARTMENT OF CHEMISTRY

Seth Kesarimal Porwal College of Arts, Science and Commerce,

Kamptee-441001

2021-22

Synthesis of $g\text{-C}_3\text{N}_4\text{-Ag}_2\text{WO}_4$ based nanocomposite by using co-precipitation method

Submitted to

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

For the partial fulfilment of Degree of **Master of Science**

In Chemistry in the faculty of Science and Technology

Submitted by

Miss. Neelu N. Shukla

M.Sc-II (Sem-IV)

In Under the guidance of

Dr. R. G. Chaudhary

**Assistant professor
and Head**

Post Graduate Department of Chemistry

Seth Kesarimal Porwal College of Arts, Science & Commerce,

Kamptee- 441001.



Post Graduate Department of Chemistry

Seth Kesarimal Porwal College of Arts, Science & Commerce,
Kamptee-441001

Project Work

On

Synthesis of graphene oxide and reaction with sulfanilamide

Project work submitted to the

RTM Nagpur university

For the degree of

Master of science (chemistry)

By

Miss. Bhagyshree Dilip Chindhalore

(M.sc chemistry sem-IV) (CBCS)

Under the guidance of

Dr. Manjiri Nagmote Mam (M.sc.ph.D)

Head of department of chemistry

Seth kesarimal porwal college of arts & science & commerce

Kamptee-4414001



**P.G. Department Of Chemistry , Seth Kesarimal Porwal College
Of Arts & Science & Commerce**

Kamptee-4414001

April 2021-22

PROJECT REPORT
OF
GREEN SYNTHESIS OF NANO PARTICALES $MnFe_2O_4$ -rGO-
BASED NANOCOMPOSITES AND THEIR ADSORPTION
STUDIES ON DIFFERENT DYES

Submitted in partial fulfilment for the requirement of MSC II (Sem -IV) year subject under degree of
MASTER OF SCIENCE

SUBMITTED BY
AJINKYA JAGDISH KHARWADE

Under the guidance of

Dr. R. G. Chaudhary
Head of Department of Chemistry

Seth Keserimal Porwal college of Arts & Science
& Commerce, Kamptee- 441001



Place of Research Work
P.G. Department of Chemistry, Seth Kesarimal Porwal College of Arts & Science &
commerce, Kamptee-441001
April 2021-2022

**Facile Phytoconstruction of BiVO₄-rGO based
Nanocomposites for Photo degradation of Dye**

Submitted to

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

For the partial fulfilment of Degree of

Master of Science

In Chemistry in the faculty of Science and Technology

Submitted by

Miss. Anjali Ramkumar Nayak

M.Sc-II (Sem-IV)

Under the guidance of

Dr. R. G. Chaudhary

Assistant Professor, Co – ordinator and Head of

Post Graduate Department of Chemistry

Seth Kesarimal Porwal College of Arts, Science & Commerce,

Kamptee- 441001



Place of Research Work

Post Graduate Department of Chemistry

Seth Kesarimal Porwal College of Arts, Science & Commerce,

Kamptee – 441001

A Project Report on
**Bioinspired Synthesis g-C₃N₄/BiVO₄-based Nanocomposites and their application for
photodegradation of Reactive Yellow dye**

SUBMITTED TO

RASHTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

For the partial fulfilment of degree of

Master of Science

In Chemistry in the faculty of Science and Technology

Submitted by

Miss. Swati Ramesh Sambare

M.Sc-II (Sem-IV)

Under the guidance of

Dr. Ratiram Gomaji Chaudhary

Assistant professor and Head

Post Graduate Department of Chemistry,

Seth Kesarimal Porwal College of Arts, Science & Commerce,

Kamptee- 441001.



Place of Research Work

Post Graduate Department of Chemistry

Seth Kesarimal Porwal College of Arts, Science Commerce, Kamptee-441001

**Green synthesis of CuFe_2O_4 /NCs and its
Antibacterial activity**

Submitted to

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

For the partial fulfilment of degree of

MASTER OF SCIENCE

In chemistry in the faculty of Science and Technology

By

Ms. Ritika Jaiswal

Under the guidance of

Dr. R. G. Chaudhary

Head of the department

Post Graduate Department of Chemistry

Seth Kesarimal Porwal College Of Arts, Science &

Commerce, Kamptee 441002



Place of Research Work

PostGraduation Department Of Chemistry

Seth Keserimal Porwal College Of Arts, Science & Commerce,

Kamptee –

(March – May– 2022)

A Project Report on
**Green Synthesis Of $MnCo_2O_4$ Nanocomposite For The Adsorption Study
Of Reactive Orange And Malachite Green Dye**

SUBMITTED TO

RASHTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

For the partial fulfilment of degree of

Master of Science

In Chemistry in the faculty of Science and Technology

Submitted by

Miss. Pooja Dhananjay Sable

M.Sc-II (Sem-IV)

Under the guidance of

Dr. Ratiram Gomaji Chaudhary

Assistant professor and Head

Post Graduate Department of Chemistry,

Seth Kesarimal Porwal College of Arts, Science & Commerce,

Kamptee- 441001.



Place of Research Work
Post Graduate Department of Chemistry
Seth Kesarimal Porwal College of Arts, Science Commerce,
Kamptee- 441001

Project Report
on
Green synthesis of Zr-CoFe₂O₄/ rGO-based Nanocomposites and
their Antimicrobial assay

SUBMITTED TO

RASTRASANT TUKDOJI MAHARAJ UNIVERSITY, NAGPUR

For the partial fulfillment of degree of

MASTER OF SCIENCE

In chemistry, in faculty of science and technology

SUBMITTED BY

Miss. Shweta Kamalakar Nikaju

MSC.II (SEMIV)

Under the guidance of,

Dr. Ratiram Choudhary sir,

Assistant professor of

Seth kesarimalporwal college Kamptee

Post graduate department of chemistry,



Seth kesarimal porwal college of Arts , Commerce and science

Kamptee- 441401

Place of reasearch work,

Seth Kesarimal Porwal College of Art , Commerce andscience

Phytosynthesis of Ce-BiMoO₆-rGO Nanocomposites for Antibacterial Activity

Submitted to

**RASHTRASANT TUKDOGI MAHARAJ NAGPUR
UNIVERSITY, NAGPUR**

for the partial fulfillment of Degree of

Master of Science

In chemistry in the faculty of science

By

Miss. Shivani Gokuldas Rannaware

Under the guidance of

Dr. R. G. Chaudhary

Head of Department Of Chemistry

**Seth Kesarimal Porwal College of Arts & Science & Commerce,
Kamptee- 4414001**



Place of Research Work

**P.G. Department of Chemistry, Seth Kesarimal Porwal College of
Arts & Science & commerce, Kamptee-441001**

April 2021-2022

A Project Report on

Synthesis of Bamboo leaf to SiO₂ nanoparticles

Submitted to

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

For the partial fulfillment of Degree Of

MASTER OF SCIENCE

In chemistry in the faculty of science and Technology

Submitted By

Miss. Sweta Rajendra Pounikar

M.Sc. 2nd (Sem- 4)

Under The guidance of

Dr. Manjiri Nagmote

Assistant Professor

Post Graduate of Department of Chemistry

Seth Kesarimal Porwal College of Arts, Science and commerce,
Kamptee 441001



Place of Research Work

Post Graduate Department of Chemistry

Seth Kesarimal Porwal College of Arts, Science and commerce,
Kamptee -441001

PROJECT REPORT
OF
GREEN SYNTHESIS OF NANO PARTICALES $MnFe_2O_4$ -BASED
NANOCOMPOSITES AND THEIR ADSORPTION STUDIES ON
DIFFERENT DYES

Submitted in partial fulfilment for the requirement of MSC II (Sem -IV) year subject under degree of
MASTER OF SCIENCE

SUBMITTED BY
YOGITA ASHOK DESHMUKH

Under the guidance of

Dr. R. G. Chaudhary
Head of Department of Chemistry

Seth Keserimal Porwal college of Arts & Science
& Commerce, Kamptee- 441001



Place of Research Work

P.G. Department of Chemistry, Seth Kesarimal Porwal College of Arts & Science &
commerce, Kamptee-441001

April 2021-2022

**RASHTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY NAGPUR M.Sc SEMESTER IV EXAMINATION
SUMMER 2022**

M.Sc Semester IV Project Viva, Session 2021-2022

Sr. No	Name	M. No.	Topic/Title of Project	Supervisor Name
1	Aanchal Ashok Kanojiya	9588455062	Screening and optimization of IAA production and Ammonia production by rhizobacteria from <i>Oryza sativa</i> (rice plant)	Dr. Alok R. Rai
2	Achal Jaiswal	8459134365	Isolation and characterization of thermophilic bacteria from coal mines soil	Dr. Alok R. Rai
3	Alka Ramesh Saroj	7507580770	Study of preliminary phytochemical analysis, antibacterial and antioxidant activity of leaves extract of <i>Melia azedarach L.</i>	Dr. Alok R. Rai
4	Aparnita Bhagwan Chainde	8600518358	Green synthesis of Manganous Oxide Nanoparticle Using <i>Melia Azedarach</i> Leaf Powder Extract	Dr. Alok R. Rai
5	Apurva Achyut Ramekar	9579017190	Study of preliminary phytochemical analysis, antibacterial and Antioxidant activity of leaves extract of <i>C. Fruticose L.</i>	Dr. Alok R. Rai
6	Apurva Sunil Ramteke	9284977168	Toxicological impact of Chlorpyrifos on growth of rice field cyanobacterium from Nagpur Region	Dr. Alok R. Rai
7	Ashvini Sanjay Nagose	7796214583	Cynobacterial Diversity in Rice Field of Bhandara Region of Maharashtra and their tolerance to Chlorpyrifos	Dr. Alok R. Rai
8	Avinash mahadev Raut	9325858107	Toxicological impact of monocrotophos on growth of rice field <i>Cynobacterium</i> from Nagpur region	Dr. Neha J. Deshattiwar
9	Bhavana Umale	09168641243	Surveillance of multidrug resistant uropathogenic bacteria of hospitalized patient in Nagpur	Dr. Alok R. Rai
10	Chitra Dhanraj Wankar	7058587814	Plant growth- promoting rhizobacteria	Dr. Alok R. Rai
11	Diksha Pundlik Gajbhiye	7249145927	Green synthesis of copper oxide nanoparticles using <i>Ventilago denticulata</i> fruit powder extract	Dr. Alok R. Rai
12	Dipti Sanjay Gdre	8767032595	Green synthesis of Lithium chloride nanoparticle using <i>Breynia vitis</i> leaf powder extract	Dr. Alok R. Rai
13	Divya Madhavrao Dhawade	09511663725	Analysis of phytochemical, antimicrobial and antioxidant properties of <i>Ventilago Denticula</i> from Salaimenda Hingna, Nagpur	Dr. Alok R. Rai
14	Farheen M. Khan	7887932032	Evaluation of phytochemical and antioxidant activity of <i>Luffa echinata</i> fruits and seed including their antimicrobial efficiency	Dr. Alok R. Rai
15	Firdous Fatema Abdul Salam Qureshi	9518585011	Enumeration of extract of <i>Alectra paracitica</i> for their phytochemical and antioxidant potential and bactericidal activity against MDR specific strains	Dr. Alok R. Rai

16	Jaya Madhukarrao Patil	8806166446	Manufacturing of organic acid in pumpkin and carrot fermentation'.	Dr. Alok R. Rai
17	Jayshri Ravindra Dhok	7066027631	Isolation and characterization of potassium and chitinase production by <i>rhizobacteria</i> .	Dr. Alok R. Rai
18	Kirankuamri Gupta	9156497758	Isolation of manganese tolerant bacteria from manganese ore	Dr. Alok R. Rai
19	Manisha Mangalji Ambule	9579154296	Isolation and characterization of Hydrogen cyanide production and Nitrogen fixation by plant growth promoting <i>rhizobacteria</i> associated with rice.	Dr. Neha J. Deshattiwar
20	Mayank sanjay Lambat	9021544417	Green synthesis of Cobalt nanoparticle using <i>Ventilago denticulata</i> stem extract	Dr. Alok R. Rai
21	Pragati Waman Tadas	9356442378	Toxicology impact of Chlorpyrifos On growth of rice field Cynobacterium from Bhandara region	Dr. Neha J. Deshattiwar
22	Pritija Dhagadi	8956327143	Antimicrobial, antioxidant activity and phytochemical screening of <i>Strychnos potatorum</i> seeds towards MDR	Dr. Alok R. Rai
23	Rupal Prakash Patel	7066916302	To evaluate the qualitative analysis of phytochemical and study of antimicrobial activity of <i>Cadaba fruticosa</i> plant (stem) extract.	Dr. Neha J. Deshattiwar
24	Samiksha Surendra Maske	7378778348	Phytochemical screening, antioxidant and antimicrobial activity of <i>Ventilago denticuleta</i> by using Leaf and stem extract	Dr. Neha J. Deshattiwar
25	Shama Farheen Fazlur Rahman	9322852791	Organophosphate degradation by cynobacteria	Dr. Neha J. Deshattiwar
26	Shraddha Sanjay Telrandhe	7448077175	Antimicrobial resistance and it's present scenario	Dr. Neha J. Deshattiwar
27	Shreesha Naidu	9834175494	Phytochemical screening ,antioxidant activity & antimicrobial effect of <i>Bryenia vitis idaea</i>	Dr. Neha J. Deshattiwar
28	Payal Jageshwar Gondhale	7249816464	Isolation and Screening of Phosphate Solubilizing Rhizobacteria from Rhizospheric Soil of Paddy Field	Dr. Alok R. Rai

**SCREENING AND OPTIMIZATION OF IAA PRODUCTION AND
AMMONIA PRODUCTION BY RHIZOBACTERIA FROM *ORYZA
SATIVA* [RICE PLANT].**

Project submitted in partial fulfillment of the requirement for the Degree of
Master of Science [Microbiology]

Submitted By

MISS. AANCHAL KANOJIYA

Email id: aanchalkanojiya364@gmail.com

Under the guidance of

Dr. ALOK R RAI



Post Graduate Teaching Department Of Microbiology

Seth Kesrimal Porwal College Of Arts, Science and

Commerce Kamptee-441002,

District-Nagpur, Maharashtra, India

Session 2021-2022

**Isolation and characterization of thermophilic bacteria
from soil collected in kamptee coal mines**

Dissertation submitted in partial fulfilment of the requirement

For the degree of

Master of science in (Microbiology)

Submitted by

Miss. ACHAL.R.JAISWAL

Email id- shikhajaiswal9875@gmail.com

Under The Guidance

Dr. ALOK.R.RAI, M.sc. Ph.D.



Post Graduate Teaching Department Of Microbiology

Seth Kesrimal Porwal College Of Art, Science And Commerce

Kamptee-441002

District-Nagpur, Maharashtra, India

2021-2022

**Study of preliminary phytochemical analysis,
antibacterial and antioxidant activity of leaves extract
of *Melia azedarach* L.**

Dissertation submitted in partial fulfillment of the requirement
for the degree for

MASTER OF SCIENCE (Microbiology)

Submitted by

Miss. Alka Ramesh Saroj

Email Id:- alkasaroj9@gmail.com



Under the guidance

Dr. Alok R. Rai

M.Sc, Ph.D

Head of Department of Microbiology

Post Graduate Teaching Department of Microbiology

**Seth Kesrimal Porwal College of Art, Science and
Commerce Kamptee-441002,**

District-Nagpur, Maharashtra, India

Session 2021-2022

★ *Green Synthesis Of Manganous Oxide Nanoparticles Using Melia
Azedarach Leaf Powder Extract* ★

Dissertation submitted in partial fulfillment of the requirement.

for the degree for

MASTER OF SCIENCE

(MICROBIOLOGY)

SUBMITTED BY

Miss. Aparnita Bhagwan Chainde.

Email Id : aparnitachainde16@gmail.com

Under the guidance

Dr. Alok R. Rai

M.sc, Ph.D



Post Graduate Teaching Department of Microbiology

Seth kesrimal Porwal College of Art, Science & commerce

Kamptee - 441002

District-Nagpur, Maharashtra, India.

Session 2021-2022

**Study of preliminary phytochemical analysis, antibacterial and
Antioxidant activity of leaves extract of *C. Fruticose* L.**

Dissertation submitted in partial fulfillment of the requirement for the
degree for

Master of science (Microbiology)

Submitted by

MISS APURVA ACHYUT RAMEKAR

Email Id:- apurvamekar98@gmail.com



Under the guidance

Dr. Alok Rai

M.Sc., Ph.D.

Head of department of microbiology

Post Graduate Teaching Department of Microbiology

Seth Kesrimal Porwal College of Art, Science and Commerce

Kamptee-441002,

District-Nagpur, Maharashtra, India

Session 2021-2022

**“TOXICOLOGICAL IMPACT OF CHLORPYRIFOS ON
GROWTH OF RICE FIELD CYANOBACTERIUM FROM
NAGPUR REGION”**

A project work

Dissertation submitted in accordance with partial fulfillment of Degree of

**MASTER OF SCIENCE IN
MICROBIOLOGY**

In Faculty of Science and Technology

Submitted By:

MISS. APURVA SUNIL RAMTEKE

M.Sc Final Year (Semester-IV)

Email id: apurvaramteke11@gmail.com

Under the valuable guidance of

Dr. Alok R. Rai (M.Sc. Ph.D.)

Head, Post Graduate Department of Microbiology



**POST GRADUATE TEACHING DEPARTMENT OF
MICROBIOLOGY.**

**SETH KESRIMAL PORWAL COLLEGE OF ART, SCIENCE AND
COMMERCE, KAMPTEE-441002 , NAGPUR**

(SESSION 2021-2022)

**Cyanobacterial Diversity in Rice Field of Bhandara Region of
Maharashtra and Their Tolerance to Chlorpyrifos**

Dissertation submitted in partial fulfilment of requirement

For the Degree for

MASTER OF SCIENCE (MICROBIOLOGY)

SUBMITTED BY

MISS. ASHVINI SANJAY NAGOSE

Email ID: - ashvinisnagose@gmail.com

Under the Guidance

DR. ALOK R. RAI

M.Sc, Ph.D



Post Graduate Teaching Department of Microbiology

Seth Kesarimal Porwal College of Arts, Science and

Commerce Kamptee-441002

District- Nagpur, Maharashtra, India.

Session: - 2021-2022

**Toxicological impact of monocrotophos on growth of rice field
cyanobacterium from Nagpur region.**

Dissertation submitted in partial fulfillment of the requirement for the degree for
MASTER OF SCIENCE(MICROBIOLOGY) SUBMITTED BY

Mr. Avinash M. Raut

Email Id:

avinashraut806@mail.com

Under the guidance of

Dr. Neha J. Deshattiwar

M.Sc, Ph.D



Post Graduate Teaching Department of Microbiology

Seth Kesrimal Porwal College of Art, Science and Commerce Kamptee-441002,

District-Nagpur, Maharashtra, India Session

2021-2022

Surveillance Of Multidrug Resistant Uropathogenic Bacteria Of Hospitalized Patient In Nagpur

Project work submitted in partial fulfilment of the requirement
for the degree for
master of science (Microbiology)

Submitted by

Miss. BHAVANA SHARAD UMALE

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Post graduate teaching department of Microbiology

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Science And Commerce

Kamptee-441002,

District- Nagpur. Maharashtra. India

Session 2021-22

Plant growth promoting rhizobacteria

Dissertation submitted in partial fulfillment of the requirement for the
degree for

MASTER OF SCIENCE (MICROBIOLOGY)

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Seth Kesrimal Porwal College of Art, Science and Commerce Kamptee-

441002,

District-Nagpur, Maharashtra, India

Session 2021-2022

Green Synthesis Of Copper Oxide Nanoparticles Using *Ventilago denticulata* Fruit Powder Extract

Dissertation submitted in partial fulfillment of the requirement

For the degree for

Master of Science

Microbiology

Submitted by

MISS. DIKSHA PUNDLIK GAJBHIYE

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Under the guidance

Dr. Alok .R. Rai

MSc. Phd.



Post Graduate Teaching Department of Microbiology

Seth Kesarimal Porwal College, Kamptee

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

2021-2022

Green Synthesis Of lithium chloride Nanoparticles Using *Breynia vitis* leaf Powder Extract

Project work submitted in partial fulfilment of the requirement for the degree for
master of science (Microbiology)

Submitted by

Miss. DIPTI SANJAY GADRE

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Post graduate teaching department of Microbiology

**Seth Kesarimal Porwal College Of Arts And
Science And Commerce**

Kamptee-441002,

District- Nagpur, Maharashtra, India

Session 2021-22

A
Project Report
On
“Analysis of phytochemicals, antimicrobial and antioxidant
properties of *Ventilago denticulate* from Salaimenda Hingna,
Nagpur”.

SUBMITTED TO
Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur
In partial Fulfillment of requirement
For the degree of
Master of science (Microbiology)
Final Year

SUBMITTED BY
MISS. DIVYA MADHAVRAO DHAWADE
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UNDER THE GUIDANCE OF
DR. ALOK R. RAI
M.Sc. , Ph.D

Post Graduate Teaching Department of Microbiology
Seth Kesarimal Porwal College of Arts, Science and commerce
Kamptee 441001.



For Academic session
2021 - 2022

**EVALUTION OF PHYTOCHEMICAL AND
ANTIOXIDANTACTIVITY OF *LUFFA ECHINATA* FRUITS AND
SEED INCLUDING THEIR ANTIMICROBIAL EFFICIENCY**

Dissertation submitted in partial fulfillment of the requirement for the
degree of

MASTER OF SCIENCE (MICROBIOLOGY)

SUBMITTED BY

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DR. ALOK R. RAI (M.Sc. Ph.D)



Post Graduate Teaching Department of Microbiology

Seth Kesarimal Porwal College of Art, Science and

Commerce Kamptee-441002,

District-Nagpur, Maharashtra,

India,

Session 2021-2022

**ENUMERATION OF EXTRACT OF *ALECTRA PARACITICA* FOR THEIR
PHYTOCHEMICAL AND ANTIOXIDANT POTENTIAL AND BACTERICIDAL
ACTIVITY AGAINST MDR SPECIFIC STRAINS**

Dissertation submitted in partial fulfillment of the requirement for the degree for
MASTER OF SCIENCE (MICROBIOLOGY)

SUBMITTED BY
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Under The Guidance
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Post Graduate Teaching Department of Microbiology

Seth Kesrimal Porwal College of Art, Science and

Commerce Kamptee-441002,

District-Nagpur, Maharashtra, India

Session 2021-2022

Manufacturing of organic acid in pumpkin & Carrot fermentation.

**Dissertation Submitted to
In partial fulfillment of the requirement of**

**Master of Science in Microbiology
(M.Sc. – II SEM – IV)**

**Submitted by
Jaya M.Patil
jayapatil500@gmail.com**

**Guided by
Dr.Alok Rai
(M.Sc.PHD)**



**SETH KESARIMAL PORWAL COLLEGE OF
ARTS AND SCIENCE AND COMMERCE**

**Kamptee, Nagpur- 441002
(Post Graduate Teaching Department Microbiology)**

2021-22

**“ISOLATION AND CHARACTERIZATION OF
POTASSIUM AND CHITINASE PRODUCTION BY
RHIZOBACTERIA”**

**Dissertation submitted in partial fulfillment of the requirement for
degree of Master of science in Microbiology**

Submitted by

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Under the guidance of

Dr.ALOK R. RAI, M.sc.,ph.D.,

Assistant professor and Head



**Post Graduate Teaching Department of Microbiology
Seth Kesarimal Porwal College of Arts, Science and commerce
Kamptee 441001, District – Nagpur, Maharashtra, India
Session 2021-2022**

Isolation of Manganese tolerant bacteria from Manganese Ore.

Dissertation submitted in partial fulfillment of the requirement for the degree

for

Master of science (microbiology)

Submitted by

MISS. KIRANKUMARI .R. GUPTA

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Under the guidance

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M.Sc, Ph.D

Head of department of microbiology

Seth Kesrimal Porwal College of Art, Science and Commerce

Kamptee-441002,

District-Nagpur, Maharashtra, India

Session 2021-2022

**“ ISOLATION AND CHARACTERISATION OF HYDROGEN CYANIDE
PRODUCTION AND NITROGEN FIXATION BY PLANT GROWTH
PROMOTING RHIZOBACTERIA ASSOCIATED WITH RICE.”**

Dissertation submitted in partial fulfillment of the requirement for the degree

Master of Science in (Microbiology)

Submitted by

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Under the guidance of

Dr. NEHA J. DESHATTIWAR,

M.Sc., Ph.D.,

Assistance Professor



Post Graduate Teaching Department of Microbiology

Seth Kesarimal Porwal College of Arts and Science and Commerce
Kamptee 441 001, District- Nagpur,
Maharashtra, India

Session 2021-2022

**Green Synthesis Of Cobalt Nanoparticles Using
Ventilago denticulata Stem Powder Extract**

**Project submitted in partial fulfillment of the requirement for the
Degree of Master of Science**

Microbiology

Submitted by

MR. MAYANK S. LAMBAT

Under the guidance of

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M.sc., Ph.D



Post graduate teaching department of microbiology

**Seth kesarimal Porwal College, of Arts, Science and Commerce
Kamptee District-Nagpur, Maharashtra, India**

Session 2021-2022

**Toxicology impact of chlorpyrifos on growth of rice field cyanobacterium from
Bhandara region**

Dissertation submitted in partial fulfillment of the requirement For the degree for

MASTER OF SCIENCE (MICROBIOLOGY)

Submitted by :

MISS. PRAGATI W. TADAS

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Under the guidance of

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Msc , Ph. D



Post Graduate Teaching Department of Microbiology
Seth Kesrimal Porwal College of Art, Science and Commerce Kamptee-441002,

District-Nagpur, Maharashtra, India
Session 2021 – 2022

Antimicrobial, antioxidant activity and phytochemical screening of *Strychnos Potatorum* seeds towards MDR



*Project work Submitted in the Partial Fulfilment
of the*

requirement for the Award of the Degree of

**MASTER OF SCIENCE In
MICROBIOLOGY**

*in the Faculty of Science Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur.*

Submitted By

PRITIJA VASANTRAO DHAGADI

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Post Graduate Teaching Department of Microbiology

SETH KESARIMAL PORWAL COLLEGE OF ARTS, SCIENCE AND COMMERCE,

KAMPTEE, NAGPUR, MAHARASHTRA, 441002 (INDIA)

2021-2022

**To evaluate the qualitative analysis of
phytochemicals and study of antimicrobial
activity of *Cadaba fruticosa* plant (stem) extract.**

Dissertation submitted in partial fulfillment of the requirement
for the degree for Master of Science (Microbiology)

Submitted by

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Post Graduate Teaching Department of Microbiology

Seth Kesrimal Porwal College of Art, science and

Commerce kamptee-441002,

District-Nagpur, Maharashtra, India

Session 2021-2022

**Phytochemical screening , antioxidant and antimicrobial activity of
Ventilago denticuleta by using leaf and stem extract**



*Project work Submitted in the Partial Fulfilment of the
requirement for the Award of the Degree of*

**MASTER OF SCIENCE In
MICROBIOLOGY**

*in the Faculty of Science Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur.*

Submitted By

Samiksha Surendra Maske

Guided By

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**SETH KESARIMAL PORWAL COLLEGE OF ARTS, SCIENCE AND COMMERCE,
KAMPTEE, NAGPUR, MAHARASHTRA, 441002 (INDIA)**

2021-2022

Antimicrobial resistance and its present scenario

Dissertation Submitted to
In partial fulfillment of the requirement of

Master of Science in Microbiology
(M.Sc. - II SEM - IV)

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**SETH KESARIMAL PORWAL COLLEGE OF
ARTS AND SCIENCE AND COMMERCE**

Kamptee, Nagpur- 441002
(Post Graduate Teaching Department Microbiology)

2021-22

**Phytochemical screening , antioxidant activity & antimicrobial
effect of Bryenia Vitis Idaeae**

Dissertation submitted in partial fulfillment of the requirement for the degree
for

Master of science (microbiology)

Submitted by

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Seth Kesrimal Porwal College of Art, Science and Commerce

Kamptee-441002,

District-Nagpur, Maharashtra, India

Session 2021-2022



PROJECT REPORT
ON
“ISOLATION AND SCREENING OF PHOSPHATE
SOLUBILIZING RHIZOBACTERIA FROM
RHIZOSPHERIC SOIL OF PADDY FIELD”

*Submitted in partial fulfillment of requirement
for the award of Degree
Of*

MASTER OF SCIENCE MICROBIOLOGY

R.T.M. Nagpur University
2021-2022

**Submitted By
Miss. Payal Jageshwar Gondhale**

Under The Supervisor Of
Dr. Alok .R. Rai

DEPARTMENT OF MICROBIOLOGY

2021-2022



**SETH KESARIMAL PORWAL ART , COMMERCE AND
SCIENCE COLLEGE**

KAMPTHEE

(Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

B. Sc. Zoology Projects List 2021 – 2022

S. No.	Name of Student	Title of Project
1	Mr. Sourabh Rahangdale	Chinese Hatchery
2	Ku. Shreya Gajbhiye	Use of New Generation Drugs
3	Ku. Dilkhusha Aiman	Crop Pest – Cotton Spotted Ball Worm
4	Ku. Tasbiha Fatema	Fish Products & By Products
5	Ku. Mohini Pawar	Diseases caused by Protozoa
6	Ku. Ishika Ukey	Lac Products & Economic Importance
7	Mr. Shayan Gedam	Fabrication & Setting of Aquarium
8	Ku. Namra Arafat	Apiculture, Types of Honey Bees
9	Ku. Rashi Athankar	Lac Culture
10	Ku. Adifa Sadiya	Mulberry Cultivation & Rearing
11	Ku. Sonu Dorsetwar	Fish Preservation
12	Ku. Sachi Chauhan	Products of Beekeeping
13	Ku. Kanchan Manghate	Diseases caused by Bacteria & Helminths

Dr. N. P. Meshram
Head, Department of Zoology

PRC
Practical Record
checked

Sem V Session 2021-22

Assignments, Tests, Microscope
Projects, Seminars, field visits,
PRs - Practical Record Submission

Permanent
Micrograph
PM
Project submitted - PS
(in)
PS, PM, PS 3-12-2021
Unit I, II, III, IV
Done (10)

Page
Date

- 1) MCC Savarabh Rakang date - microscope, handling unit I, II, III, IV
Chinese Hatchery. (5)
- 2) Sakshi Waikar - Microscope, units, II, III, IV
- 3) Poorna Jansewar Microscope unit I, II, III, IV pm. (5)
- 4) Maryam Khatun
Brown culture (5)
- 5) Shreya Gajbhiye microscope handling unit I, II, III, IV pm, ps
use of New generation drug 9-12-2021 (Sat)
Done (10)
13-12-21 Saphire
- 6) Sonu Dorsetasar microscope unit I, II, III, IV pm, ps
fish preservation Done (10)
13/12/21
- 7) Bhagyashree Thenge ?
Fungal diseases on fish (5)
- 8) Nacura Arfat microscope handling unit I, II, III, IV pm
Apiculture, Types of Honeybees (5)
3-12-21
Late
- 9) Rashi Athankar microscope handling unit I, II, III, IV pm (5)
Lac culture

- 10) Nagmaoor Anseori Microscope Handling unit I, II, III, IV pm.
Seri culture, Types of Silkworm (5)
- 11) DilKusha Ni man Microscope Handling unit I, II, III, IV pm, ps
Crop pest - L.C, D, C - Cotton spotted Boll worm (5)
13/12/21
13/12/21
- 12) Tasbiha fatema Microscope Handling unit I, II, III, IV pm, ps
Fish products and By products (5)
13/12/21
- 13) Tanaya Nilamwar Microscope Handling unit I, II, III, IV
Pearl culture (5)
- 14) Prakash Mankar (5)
- 15) shayan Gedam (5)
Fabrication and setting up aquarium
Done shayan 13-12-21
- 16) Pooja Dongre Microscope Handling unit I, II, III, IV (5)
Aquarium fishes
- 17) Adifa Sadiya microscope handling unit I, II, III, IV pm, ps
Mulberry cultivation, L.C, Rearing (5)
13-12-21
- 18) Sachin chavhan microscope handling unit I, II, III, IV (5)
Product of Beekeeping

19) Attaf Jabeen Microscope Handling Unit I, II, III, IV PM
Movable frame type
P.S. 3-1-2022 (Late)
9-12-2021 (Thy)

20) Masura Anjum Microscope Handling Unit I, II, III, IV PM
Polyculture
P.S. 4-1-2022 (Late)
9-12-2021 (Thy)

21) Kareena Marghade Microscope Handling Unit I, II, III, IV PM
Stable fly - medical part / Animal Rest
P.S. 4-1-22 (Late)
9-12-2021 (Thy)

22) Reetika Shende Microscope Handling Unit I, II, III, IV PM
P.S. 4-1-22 (Late)
9-12-2021 (Thy)

23) Kowain Haider Microscope Handling Unit I, II, III, IV PM
P.S. 4-1-22 (Late)
9-12-2021 (Thy)

24) Aakansha Patil Microscope Handling Unit I, II, III, IV PM
13/12/21

25) Prachi Monkar Microscope Handling Unit I, II, III, IV PM

26) Sakshi Rajan Microscope Handling Unit I, II, III, IV PM

27) Kajal Gautam Microscope Handling Unit I, II, III, IV PM

28) Molini Pawar Disease Caused by Protozoa
Unit I, II, III, IV PM
2-12-2021 (Thy)

29) Ishika Ukay LAR product and Eco Impstance
Unit I, II, III, IV PM
31/12/2021 (Thy)

30) Kanchan Manghate Disease Caused by Bacteria and Helminths
Unit I, II, III, IV PM
2-12-2021 (Thy)

31) Kajal Wanjari Microscope Handling Unit I, II, III, IV PM

32) Ranj Karare Microscope Handling Unit I, II, III, IV PM

33) Pradnya Shankarpure Microscope Handling Unit I, II, III, IV PM

34) Leena Chavande Microscope Handling Unit I, II, III, IV PM

35) Rupali Patil Microscope Handling Unit I, II, III, IV PM