

Dr. K. G. Rewatkar, Principal (NAAC B++ 2022)

VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHAT VIDYA VIKAS ART'S, COMMERCE & SCIENCE COLLEGE, SAMUDRAPUR DIST. WARDHA 442305 (M.S.)

(Affiliated To RTM Nagpur University, Nagpur)

Email:vidya_vikascoll@rediffmail.com Website: www.vvcs.edu.in

Ph. & Fax No. 07151 225560, 9420060601, 9665848852 (Estd.1989)

1.3.2: Number of courses that include experiential learning through project work/field work/internship during the year 2023-24:

Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship
Bachelor of Arts	B.A	Enviromental Studies	NA	2023-24	Students Enrolled in B.A-II
Bachelor of Science	B.Sc	Enviromental Studies	NA	2023-24	Students Enrolled in B.Sc-II
Bachelor of Commerce	B.Com	Enviromental Studies	NA	2023-24	Students Enrolled in B.Com-II
Master of Science	M.Sc	Chemistry	NA	2023-24	Students Enrolled in M.Sc- Semester IV
Master of Science	M.Sc	Botany	NA	2023-24	Students Enrolled in M.Sc- Semester IV
Master of Science	M. Sc.	Zoology	NA	2023-24	Students Enrolled in M. Sc. Semester IV
Master of Science	M. Sc.	Physics	NA	2023-24	Students Enrolled in M. Sc. Semester IV



Vidya Vikes Art's Commerce & Science College, Samudrapur Dist. Wardha 442305



VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHAT

VIDYA VIKAS ART'S, COMMERCE & SCIENCE COLLEGE, SAMUDRAPUR DIST. WARDHA 442305 (M.S.)

(Affiliated to RashtrasantTukdojiMaharaj Nagpur University, Nagpur.)

R T M Nagpur University Practical Examination Summer-2024

M. Sc. Semester-IV Physics Project List 2023-24

Sr. No.	Name of Student	Title	Project Guide
1	Ku. Arati Sampat Bhajikhaye	Exploring the Structural and Magnetic Properties of Nickel Doped Cobalt Ferrite.	Dr. N. D. Shambharkar
2	Ku. Ashvini Jogendra Choudhari	Photocatalytic Activity in Ferrites.	Dr. K. G. Rewatkar
3	Ku. Kalyani Kailas Telrandhe	Effect of Sintering Temperature on Synthesised Nickel Ferrite- Review.	Mr. S. R. Sarve
4	Ku. Manisha Ramudas Swami	Impact of Sintering Temperature on Cobalt Zinc Ferrite: A Comprehensive Study.	Mr. S. R. Sarve
5	Ku. Monali Balaji Jamunkar	Exploring the Influence of Aluminium Doping on the Structural and Magnetic Characteristics of Ni-Zn Ferrite.	Dr. N. D. Shambharkar
6	Ku. Mrunal Tukaramji Thakare	Exploring the Structural, Magnetic, and Electrical Properties of Nanosized Nickel Ferrite Synthesized via Sol-Gel Method.	Mr. S. R. Sarve
7	Ku. Payal Vijay Deodhe	Exploring the Structural and Magnetic Characteristics of Magnesium Doped Cobalt Ferrite: An Investigative Study.	Dr. N. D. Shambharkar



VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHAT

VIDYA VIKAS ART'S, COMMERCE & SCIENCE COLLEGE, SAMUDRAPUR DIST. WARDHA 442305 (M.S.)

(Affiliated to RashtrasantTukdojiMaharaj Nagpur University, Nagpur.)

8	Ku. Ritika Dattaraj Uchale	Hyperthermia Application of Ferrites. Dr. K. G. Rewatkar		
		Permerma Application of Perrites.	Dr. K. G. Rewatkar	
9	Ku. Sandhya Ramesh Tembhare	Comparative study of Co-precipitation Synthesis Methods for Nickel		
		Ferrite Impact on Structural Electrical and Magnetic Properties.	Mr. S. R. Sarve	
10	Ku. Sneha Pundlik Ughade	Impact of Sintering Temperature on Structural and Magnetic Properties of Aluminium-doped Nickel Zinc Ferrite.	Dr. N. D. Shambharkar	
11	Ku. Tanushri Prakash Mude	Analyzing the Structural and Electrical Properties of Zinc-Doped Cobalt Ferrite: A Comprehensive Study.	Mr. S. R. Sarve	
12	Ku. Vaishnavi Vithobaji Dandare	Exploring the Structural and Magnetic Characteristics of Zinc Magnesium Ferrite with Aluminium Doping.	Dr. N. D. Shambharkar	

Date: 16/05/2024

Place: Samudrapur

Mr. S. R. Sarve

HOD, Assist. Professor, Physics

Dr. N. D. Shambharkar

Assist. Professor, Physics

Principal Dr. K. G. Rewatkar Principal

Vidya Vikas Art's Commerce & Science College, Samudrapur Dist. Wardha 442305

"COMPARATIVE STUDY OF CO-PRECIPITATION SYNTHESIS METHODS FOR NICKEL FERRITE IMPACT ON STRUCTURAL, ELECTRICAL AND MAGNETIC PROPERTIES"

Project

Master of Science (physics)

To

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur,

Вy

Miss. Sandhya Ramesh Tembhare

M.Sc Final Year (physics)

Supervision

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce & Science College,

Samudrapur, Dist: Wardha

Place of work



DEPARTMENT OF PHYSICS

Vidya Vikas Art's, Commerce & Science College, Samudrapur

2023-2024

VIDYA VIKAS ARTS, COMMERCE AND SCIENCE, COLLEGE SAMUDRAPUR, DIST: WARDHA

CERIFICATE

This is to certify that Miss. Sandhya Ramesh Tembhare has finished all her research work in department of physics, She has completed all the formalities of our research centre.

Her project is hereby forwarded to RTMNU University Nagpur for the award of Post Graduate Degree in Physics.

Date: 12/5/2024

Place:- Samudrapur

Dr. K. G. Rewatkar

Principal Ommerce

Vidya Vikas Art's Commerce & Science College,

Samudrapur, Dist: Wardha

VIDYA VIKAS ART'S COMMERCE AND SCIENCE COLLEGE, SAMUDRAPUR

CERTIFICATE

This is to certify that the work presented in this project entitled "Comparative study of Co-precipitation synthesis methods for Nickel ferrite: impact an Structural, Electrical and Magnetic Properties" is the own work of Miss. Sandhya Ramesh Tembhare conducted in the Department of Physics, Vidya Vikas Art's Commerce and Science College, Samudrapur under my supervision in the partial fulfillment of the requirement prescribe by RTM Nagpur University, Nagpur for the award of Post Graduate Degree in physics.

Head of Department & Project Guide

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Arts, Commerce & Science College

Samudrapur, Dist: Wardha

DECLARATION

I hereby declare that the dissertation entitled "Comparative Study of Co-precipitation Synthesis Methods for Nickel Ferrite Impact On Structural, Electrical and Magnetic Properties", submitted for the degree of Post Graduation in Physics to the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, in the Faculty of Science and Technology at the Centre for Department of Physics, Vidya Vikas College Samudrapur. It has been carried out by me independently under the supervision of Mr. S.R. Sarve Assistant Professor, Department of Physics, Vidya Vikas College Samudrapur.

I also declare that the dissertation has not been submitted to any other University / Institute for the award of any other degree, diploma and certificate.

Date:- 12 15/2024

Place:- Samudrapur

Miss. Sandhya Ramesh Tembhare

Student

M.Sc Final Year (Physics)

ACKNOWLEDGMENT

I respect and thanks Mr. S.R. Sarve for providing me an opportunity to do the project work and giving us all support and guidance which made me complete my project work. I am extremely thankful to him although he had busy schedule managing the corporate affairs to giving me necessary information for developing a good project work.

I am also thankful to Miss. Pranali G. Warghane lecturer in department of physics, Vidya Vikas Art's, commerce and Science College Samudrapur for encouraging though out the project work.

At last but not the least to my PARENTS and friends who helped me a lot in finalizing this project within the limited time frame.

Date: 12/5/2024

Place:- Samudrapur

Miss. Sandhya R. Tembhare

M.Sc. Final (Physics)

Vidya Vikas Art's Commerce &

Science College, Samudrapur

"EXPLORING THE STRUCTURAL, MAGNETIC AND ELECTRICAL PROPERTIES OF NANOSIZED NICKEL FERRITE SYNTHESIZED VIA SOL-GEL METHOD"

Project

Master of Science (Physics)

TO

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

By

Miss. Mrunal Tukaramji Thakare

M.Sc Final Year (Physics)

Supervision

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's Commerce & Science College,

Samudrapur, Dist Wardha

Place of work



DEPARTMENT OF PHYSICS

2023-2024

Vidya Vikas Art's Commerce and Science College, Samudrapur 2023-2024

VIDYA VIKAS ART'S, COMMERCE AND SCIENCE COLLEGE, SAMUDRAPUR, DIST: WARDHA

CERTIFICATE

This is to certify that Miss. Mrunal Tukaramji Thakare has finished all her research work in department of physics. She has completed all the formalities of our research centre. Her project is hereby forwarded to RTM Nagpur University Nagpur for the award of Post Graduate Degree in Physics.

Date: 03/05/2029

Place :- Samudrapur

Dr. K.G. Rewatkan

Vidya Vikas Arts Commerce Vidya Vikas Arts Commerce Vidya Vikas College Samudrapui Dist. Wardha 442305

VIDYA VIKAS ART'S, COMMERCE AND SCIENCE COLLEGE SAMUDRAPUR, DIST: WARDHA

CERTIFICATE

This is to certify that the work presented in this project entitled "Exploring the Structural, Magnetic and Electrical Properties of Nanosized Nickel Ferrite Synthesized via Sol-Gel Method" is own work of Miss. Mrunal Tukaramji Thakare conducted in the Department of Physics, Vidya Vikas Art's, Commerce and Science College, Samudrapur under my supervision in the partial fulfilment of the requirement prescribe by RTM Nagpur University, Nagpur for the award of Post Graduate Degree in Physics.

Head of the Department of Physics & Project Guide

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Arts, Commerce and Science College,

Samudrapur, Dist: Wardha

DECLARATION

I hereby declare that the dissertation entitled "Exploring the Structural, Magnetic and

Electrical Properties of Nanosized Nickel Ferrite Synthesized via Sol-Gel Method"

submitted for the degree of Post Graduation in Physics to the Rashtrasant Tukadoji Maharaj

Nagpur University, Nagpur, in the Faculty of Science and technology at the Centre for

Department of Physics, Vidya Vikas College Samudrapur. It has been carried out by me

independently under the supervision of Mr. S. R. Sarve Assistant Professor, Department of

Physics, Vidya Vikas College Samudrapur,

I also declare that the dissertation has not been submitted to any other University /

Institute for the award of any degree, diploma and certificate.

Date: 03/05/2024

Place :-Samudrapur

Makare

Miss. Mrunal Tukaramji Thakare

Student

M.Sc Final Year (Physics)

ACKNOWLEDGMENT

It is indeed my pleasure to thank my project guide Mr. S. R. Sarve Assistant Professor in physics, Vidya Vikas Art's Commerce & Science College, Samudrapur & express my deep sense of gratitude for his valuable guidance, supervision and unlimited encouragement throughout the project work.

I wish to thank the Principal Dr. K. G. Rewatkar, Vidya Vikas Art's, Commerce & Science College, Samudrapur for permitting me use all the facilities available in the institution for my project work.

I am also thankful to Dr. N. D. Shambharkar, Miss. Pranali Warghane for their support and kind cooperation.

My classmate have been of great help to me the project work. My idea were shaped and refined progressively through my discussion with them from time to time. I greatly value their friendship and I deeply appreciate their belief in me. I cannot miss to thank them all.

Once again extending heartfelt thanks to all those who have been a beacon of light toward the completion of this project.

At last but not the least to my PARENTS for providing me all financial and moral support.

Date: 03/05/2029

Place :- Samudrapur

Tothakare

Miss. Mrunal Tukaramji Thakare

M.Sc Final year (Physics)

Vidya Vikas Art's ,Commerce & Science

College, Samudrapur

"Effect of sintering temperature synthesized Nickel ferrite-Review"

Project

Master of Science (Physics)

To

Rashtrasant Tukdoij Maharaj Nagpur University, Nagpur,

By

Miss. Kalyani Kailas Telrandhe

M.Sc. Final Year (Physics)

Supervision

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and Science College

Samudrapur Dist. Wardha

Place of work



DEPARTMENT OF PHYSICS

Vidya Vikas Art's, Commerce and Science College Samudrapur

2023-2024

VIDYA VIKAS ART'S COMMERCE AND SCIENCE, COLLEGE SAMUDRAPUR DIST. WARDHA

CERIFICATE

This is to certify that Miss. Kalyani Kailas Telrandhe has finished all her research work in department of physics. She has completed all the formalities of our research Centre. Her project is hereby forwarded to RTM Nagpur University. Nagpur for the award of Post Graduate Degree in Physics.

Date:

Place: Samudrapur

Dr. K.G. Rewatkar

Principal
Vidya Vides Art's Commerce

Vidya Vikas Art's, Commerce and Science College

Samudrapur Dist. Wardha

VIDYA VIKAS ARTS' COMMERCE AND SCIENCE, COLLEGE SAMUDRAPUR DIST. WARADHA

CERIFICALE

This is to certify that the work presented in this project entitled "Effect of Sintering Temperature, Synthesized Nickel ferrite – Review" is the own work of Miss. Kalyani Kailas Telrandhe conducted in the Department of Physics, Vidya Vikas Art's, Commerce and Science College, Samudrapur under my supervision in the partial fulfillment of the requirement prescribe by RTM Nagpur University, Nagpur for the award of Post Graduate Degree in Physics.

Head of the Department of Physics & Project Guide

Msom?

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and

Science College,

Samudrapur, Dist. Wardha

DECLARATION

I hereby declare that the dissertation entitled "Effect of sintering temperature synthesized Nickel ferrite -Review". Submitted for the Degree of Post Graduation in Physics to the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, in the Faculty of Science Technology at the centre for Department of Physics, Vidya Vikas College Samudrapur. It has been carried out by me independently under the supervision of Mr. S. R. Sarve Assistant Professor, Department of Physics, Vidya Vikas Art's, Commerce and Science College Samudrapur, Dist. Wardha

I also declare that the dissertation has not been submitted to any other University or Institute for the award of any degree, diploma and certificate.

Date:

Place: Samudrapur

Beltanhe

Miss. Kalyani Kailas Telrandhe

Student

M.Sc. Final Year (Physics)

ACKNOWLEDGMENT

It is indeed my pleasure to thank my project guide, Mr. S. R. Sarve, for providing me an

opportunity to do the project work and giving us all support and guidance that help me to

complete my project work. I am extremely thankful to him, although he had busy schedule

managing the corporate affairs, to giving me necessary information for developing a good

project.

I am also thankful to Dr. N. D. Shambharkar, Assistant. Professor in Department of

physics, and Miss. Pranali G. Warghane, lecturer in Department of physics, at Vidya Vikas

Art's, Commerce and Science College Samudrapur for encouragement throughout the project

work.

My Classmate have been of great help to me with the project work. My ideas were

shaped and refined progressively through my discussion with them from time to time. I cannot

forget to thank them all.

Once again, I extending heartfelt thanks to all those who have been a beacon of light

towards the completion of this project.

At last, but not least to my PARENTS for providing me all financial and moral support.

Date:

Place: Samudrapur

Miss Kalyani Kailas Telradhe

Vidya Vikas Art's, Commerce and

M.Sc. Final Year (Physics)

Science College, Samudrapur

"IMPACT OF SINTERING TEMPERATURE ON COBALT-ZINC FERRITE: A COMPREHENSIVE STUDY"

Project

Master of Science (Physics)

To

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

By

Miss. Manisha Ramudas Swami

M.Sc. Final Year (Physics)

Supervision

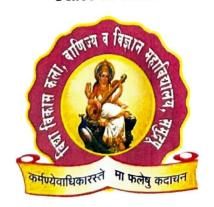
Mr. S.R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and Science College,

Samudrapur, Dist: Wardha

Place of work



DEPARTMENT OF PHYSICS

Vidya Vikas Art's, Commerce and Science College, Samudrapur 2023-2024

VIDYA VIKAS ART'S, COMMERCE AND SCIENCE COLLEGE, SAMUDRAPUR, DIST: WARDHA

CERTIFICATE

This is to certify that Miss. Manisha Ramudas Swami has finished all her research work in department of physics. She has completed all the formalities of our research centre. Her project is hereby forwarded to RTM Nagpur University. Nagpur for the award of Post Graduate Degree in Physics.

Date: 03/05/2024

Place: Samudrapur

Dr. K. G. Rewatkar

Principal
Vidya Vikas Art's Commerce
Vidya Wikase College, Samudrapur
Dist. Wardha 442305

VIDYA VIKAS ART'S, COMMERCE AND SCIENCE COLLEGE SAMUDRAPUR, DIST: WARDHA

CERTIFICATE

This is to certify that the work presented in this project entitled "Impact of Sintering Temperature on Cobalt-Zinc Ferrite: A Comprehensive Study" is the own work of Miss. Manisha Ramudas Swami conducted in the Department of Physics, Vidya Vikas Art's, Commerce and Science College, Samudrapur under my supervision in the partial fulfilment of the requirement prescribe by RTM Nagpur University, Nagpur for the award of Post Graduate Degree in Physics.

Head of the Department of Physics & Project Guide

SAM in

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and Science College,

Samudrapur, Dist: Wardha

DECLARATION

I hereby declare that the dissertation entitled "Impact of Sintering Temperature on Cobalt-Zinc Ferrite: A Comprehensive Study" submitted for the Degree of Post Graduation in Physics to the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, in the Faculty of Science and Technology at the centre for Department of Physics, Vidya Vikas College Samudrapur. It has been carried out by me independently under the supervision of Mr. S.R. Sarve Assistant Professor, Department of physics, Vidya Vikas College Samudrapur.

I also declare that the dissertation has not been submitted to any other University/Institute for the award of any other degree, diploma and certificate.

Date: 03/05/2024

Place: Samudrapur

Miss. Manisha Ramudas Swami

Student

M.Sc. Final Year (Physics)

ACKNOWLEDGMENT

It is indeed my pleasure to thank my project guide, Mr. S. R. Sarve, for providing me an opportunity to do the project work and giving us all support and guidance that help me to complete my project work. I am extremely thankful to him, although he had busy schedule managing the corporate affairs, to giving me necessary information for developing a good project.

I am also thankful to **Dr. N.D. Shambharkar**, Assistant. Professor in Department of physics, and **Miss. Pranali G. Warghane**, lecturer in Department of physics, at Vidya Vikas Art's, Commerce and Science College Samudrapur for encouragement throughout the project work.

My Classmate have been of great help to me with the project work. My ideas were shaped and refined progressively through my discussion with them from time to time. I cannot forget to thank them all.

Once again, I extending heartfelt thanks to all those who have been a beacon of light towards the completion of this project.

At last, but not least to my PARENTS for providing me all financial and moral support.

Date: 03/05/2024

Place: Samudrapur

Miss. Manisha Ramudas Swami M.Sc. Final Year (Physics)

Vidya Vikas Art's, Commerce and

Science College, Samudrapur

" ANALYZING THE STRUCTURAL AND ELECTRIC PROPERTIES OF ZINC-DOPED COBALT FERRITE: A COMPREHENSIVE STUDY"

Project

Master of Science (Physics)

To

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur,

By

Miss. Tanushri Prakash Mude

M.Sc. Final Year (Physics)

Supervision

Mr. S.R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and Science College,

Samudrapur, Dist. Wardha.

Place of work



DEPARTMENT OF PHYSICS

Vikas Vikas Art's Commerce and Science College, Samudrapur

2023-2024

VIDYA VIKAS ART'S COMMERCE AND SCIENCE, COLLEGE, SAMUDRAPUR, DIST. WARDHA.

CERTIFICATE

This is to certify that Miss. Tanushri Prakash Mude has finished all her research work in department of physics. She has completed all the formalities of our research Centre. Her project is hereby forwarded to RTM Nagpur University Nagpur for the award of Post Graduate Degree in Physics.

Date: 13/05/2024

Place:- Samudrapur

Dr. K. & Rewatkar

Principal
Vidya Vikins in es Commerce
& Science College, Samudrapur
Vidya Vikint College, S442805pur

VIDYA VIKAS ART'S COMMERCE AND SCIENCE COLLEGE SAMUDRAPUR, DIST. WARDHA

CERTIFICATE

This is to certify that the work presented in this project entitled "Analyzing the Structural and Electric properties of Zinc-doped Cobalt ferrite: A Comprehensive Study" is the own work of Miss. Tanushri Prakash Mude conducted in the Department of Physics, Vidya Vikas Art's commerce and Science College, Samudrapur under my supervision in the partial fulfillment of the requirement prescribe by RTM Nagpur University, Nagpur for the award of Post Graduate Degree in Physics.

Head of the Department of Physics & Project Guide

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and Science College,

Samudrapur, Dist. Wardha

DECLARATION

I hereby declare that the dissertation entitled "Analyzing the Structural and Electric properties of Zinc-doped Cobalt ferrite: A Comprehensive Study". Submitted for the degree of P.G. in physics to the Rashtrasant Tukadoji Maharaj Nagpur University, in the Faculty of Science and Technology at the Centre for Department of Physics Vidya Vikas College Samudrapur. It has been carried out by me independently under the supervision of S.R. Sarve Assistant Professor, Department of Physics, Vidya Vikas College Samudrapur.

I also declare that the dissertation has not been submitted to any other University for Institute for the award of any other degree, diploma and certificate.

Date:- 13/05/2024

Place :- Samudrapur

Miss. Tanushri Prakash Mude

Student.

M.Sc. Final Year (Physics)

ACKNOWLEDGMENT

It is indeed my pleasure to thank my project guide Mr. S. R. Sarve lecturer in physics, Vidya Vikas Art's Commerce & Science College, Samudrapur & express my deep sense of gratitude for his valuable guidance, supervision and unlimited encouragement throughout the project work.

I wish thank the Principal Dr. K. G. Rewatkar, Vidya Vikas Art's, Commerce & Science College, Samudrapur for permitting me to use all the facilities available in the institution for my project work.

I am also thankful to Dr. N. D. Shambharkar, Miss. Pranali G. Warghane for their support and kind cooperation.

My classmate have been of great help to me the project work. My idea were shaped and refined progressively through my discussion with them from time to time. I greatly value their friendship and I deeply appreciate their belief in me. I cannot miss to thank them all.

Once again extending heartfelt thanks to all those who have been a beacon of light towards the completion of this project.

At last but not the least to my PARENTS for providing me all financial and moral support.

Date:- 13/05/2024

Place:- Samudrapur

Miss. Tanushri Prakash Mude

M.Sc. Final Year (Physics)

Vidya Vikas Art's, Commerce and

Science College, Samudrapur

VIDYA VIKAS ARTS, COMMERCE AND SCIENCE COLLEGE, SAMUDRAPUR M. Sc. (BOTANY) SEMESTER-IV PROJECT TOPICS

Session: 2023-24

Sr. No.	Name of Student	Name of Topic	Name of Supervisor	
1	Shweta Chaudhari	Cultivation Of Wild Vegetable (Cassia tora L.) through Artificial Lighting	Dr. N. S. Shirbhate	
2	Vaishnavi Kowrate Cultivation of Biodiesel plan polluted Soil		DI. N. S. Simonate	
3	Shivani Nikore	Ethnobotanical survey of medicinal plants from Samudrapur region		
4	Payal Chambhare	Preparation Leaf Protein Concentrate (LPC) from wild and cultivated green foliage	Dr. V. G. Manwatkar	
5	Umeshwari Dahule	Comparative study of Stomatal Index from different plant species		
6	Muskan Pathan Study of pollen diversity in different honey samples		Dr. S. D. Yeotkar	
7	Pragati Yenorkar Phytochemical Analysis of Vinca rosea and Nerium indica			

Head of Department

Model.

Prof. N. S. Shironate
Head Dept of Botany
Vidya Vikas Art s. Commarke
Science College Samurapur
Dist. Wardha 442 Mg

Principalal
Vidya Vikas Art's Commerce
& Science College, Samudrapur
Dist. Wardha 442305

A PROJECT REPORT

On

"CULTIVATION OF WILD VEGETABLE (Cassia tora L.) THROUGH ARTIFICIAL LIGHTING"

Submitted in partial fulfillment of the

DEGREE OF MASTER OF SCIENCE (BOTANY)

In the Faculty of Science

By

MS. SWETA VILAS CHAUDHARI

Under the Supervision of

DR. NAYANA S. SHIRBHATE

Assistant Professor & Head,
Department of Botany,
Vidya Vikas Arts, Commerce and Science
College, Samudrapur Dist. Wardha-442305, India



Department of Botany

Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha-442305, India

2023-24

CERTIFICATE

This is to clarify that Ms. Sweta Vilas Chaudhari is a student of M. Sc. Botany (Semester-IV) in the Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

The dissertation in title "Cultivation of Wild Vegetable (Cassia tora L.) through Artificial Lighting" is submitted to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur in partial fulfillment for the degree of Master of Science in Botany.

Forwarded through:

Dr. N. 8. Shirbhate

Assistant Professor & Head

Jobhodi.

Vidya Vikas Arts,

Comm. & Sci. College,

Samudrapur

Dr. K. G. Rewatkar

Principal Violativinal Art's Commerce

& Science Ceilege, Samud Lau Dist. Wardha 442305

Comm. & Sci. College,

Samudrapur

A PROJECT REPORT

On

"PREPERATION OF LEAF PROTEIN CONCENTRATE FROM WILD AND CULTIVATED GREEN FOLIAGES"

Submitted in partial fulfillment of the

DEGREE OF MASTER OF SCIENCE (BOTANY)

In the Faculty of Science and Technology

By

MISS. PAYAL AMBADAS CHAMBHARE

Under the Supervision of

Dr. VIJAY G. MANWATKAR

Assistant Professor,
Department of Botany,
Vidya Vikas Arts, Commerce and Science
College, Samudrapur Dist. Wardha-442305, India



Department of Botany

Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha-442305, India

2023-24

CERTIFICATE

This is to clarify that **Payal Ambadas Chambhare** is a student of **M. Sc. Botany** (Semester-IV) in the Department of Botany, Vidya Vikas Arts,

Commerce and Science College, Samudrapur Dist. Wardha affiliated to

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

The dissertation entitled "Preparation Leaf Protein Concentrate from Wild and Green foliage" is submitted to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur in partial fulfillment for the degree of Master of Science in Botany.

Forwarded through:

Dr. V. G. Manwatkar

Assistant Professor,

Vidya Vikas Arts,

Comm. & Sci. College

Samudrapur

Dr. N. S. Shirbhate

Head of Department,

Vidya Vikas Arts,

Comm. & Sci. College

Samudrapur

e -

Principal Dr. Kris. Rewalkinpu ya Vikis Rewalkinpu ya Vikis Rewalkinpu

Vidya Vikas Arts,

Comm. & Sci. College

Samudrapur

JUL 2016

3

A PROJECT REPORT

On

"ETHANOBOTANICAL SURVEY OF MEDICINAL PLANTS PRESENT IN SAMUDRAPUR REGION"

Submitted in partial fulfillment of the

DEGREE OF MASTER OF SCIENCE (BOTANY)

In the Faculty of Science

By

MISS. SHIVANI GAJANAN NIKORE

Under the Supervision of

DR. SWATI D. YEOTKAR

Assistant Professor,
Department of Botany,
Vidya Vikas Arts, Commerce and Science
College, Samudrapur Dist. Wardha-442305, India



Department of Botany

Vidya Vikas Art,s Commerce and Science College, Samudrapur Dist. Wardha-442305, India

2023-24
VIDYA VIKAS ARTS, COMMERCE AND SCIENCE COLLEGE

CERTIFICATE

This is to clarify that Miss. Shivani Gajanan Nikore is a student of M. Sc. Botany (Semester-IV) in the Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

The dissertation in title "Ethanobotanical survey of medicinal plants present in samudrapur region" is submitted to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur in partial fulfillment for the degree of Master of Science in Botany.

Forwarded through:

Dr.S. D Yeotkar

Assistant Professor,

Vidya Vikas Arts,

Comm. & Sci. College

Samudrapur

Or. N. S. Shirbhate

Head of Department,

[18/0];

Vidya Vikas Arts,

Comm. & Sci. College

Samudrapur

Principal

& Styrdya VillagartSamudrapur Dist. Wardha 442305 Comm. & Sci. College

Samudrapur

A PROJECT REPORT

On

"CULTIVATION OF BIODIESEL PLANTS IN POLLUTED SOIL"

Submitted in partial fulfillment of the

DEGREE OF MASTER OF SCIENCE (BOTANY)

In the Faculty of Science

By

MS. VAISHNAVI PRABHAKAR KOWRATE

Under the Supervision of

DR. NAYANA S. SHIRBHATE

Assistant Professor & Head,
Department of Botany,
Vidya Vikas Arts, Commerce and Science
College, Samudrapur Dist. Wardha-442305, India



Department of Botany

Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha-442305, India

2023-24

VIDYA VIKAS ARTS, COMMERCE AND SCIENCE COLLEGE DEPARTMENT OF BOTANY

SAMUDRAPUR DIST. WARDHA-442305

Phone: (07151) 225560, 9096943636 Fax: (07151) 225560

Date: 08/05/2024

CERTIFICATE

It is certified that I have supervised the work of Ms. Vaishnavi Prabhakar Kowrate on "Cultivation of Biodiesel Plants in Polluted Soil" for the degree of "MASTER OF SCIENCE" in the faculty of Science, Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha. I find that the work is comprehensive and complete in all respect and ready for the submission to the University.

Supervisor:

Dr. Nayana S. Shirbhate

Assistant Professor & Head,

Department of Botany,

Vidya Vikas Arts, Commerce and Science College,

Samudrapur Dist. Wardha-442305, India

A PROJECT REPORT

on

"COMPARATIVE STUDY OF STOMATAL INDEX FROM DIFFERENT PLANT SPECIES"

Submitted in particular fulfillment of the

DEGREE OF MASTER OF SCIENCE (BOTANY)

In the Faculty of science

Ву,

MISS. UMESHWARI KAWADUJI DAHULE

Under the Supervision of

Dr. VIJAY G. MANWATKAR

Assistant Professor,

Department of Botany

Vidya Vikas Arts, Commerce and Science College,

Samudrapur, Dist. Wardha-442305, India



Department of Botany

Vidya Vikas Arts, Commerce and Science College,

Samudrapur ,Dist.Wardha-442305, India

2023-24

This is to clarify that Umeshwari Kawaduji Dahule is a student of

M. Sc. Botany (Semester-IV) in the Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

The dissertation entitled "Comparative study of stomatal index from different plant species" is submitted to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur in partial fulfillment for the degree of Master of Science in Botany.

Forwarded through:

Dr. V. G. Manwatkar

Assistant Professor,

Vidya Vikas Arts,

Comm. & Sci. College

Samudrapur

Nr. N. S. Shirbhate

Nobali

Head of Department,

Vidya Vikas Arts,

Comm. & Sci. College

Samudrapur

PriAcipal
Vidya Vilks Grikewalkar rapur
Sciepfincipal by 442305

Vidya Vikas Arts,

Comm. & Sci.College

Samudrapur

Masir

3



VIDYA VIKAS ART'S, COMMERCE & SCIENCE COLLEGE, SAMUDRAPUR DIST. WARDHA 442305 (M.S.)

(Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.)

Dr. Kishor G. Rewatkar email: vidya vikascoll@rediffmail.com website: www.vidyavikascollege.com

Principal (NAAC Accreted B++ 2022)

Ph. & Fax No. 07151 225560, 9096943636, 9420060601 (Estd. 1989)

List of M.Sc. Final Year Zoology Project Topics with Respective Supervisors.

Date: - 16/10/2023

Sr. No.	Name of Students	Name of Topic	Name of Supervisor
1	Achal Watkar	Chemical Effects on Fish Development	Dr. Manohar Ambatkar
2	Ashwini Dhokpande	Analysis of Glucose level in Blood	Dr. Manohar Ambatkar
3	Chanda Warbhe	Changes in Haematological Parameterin Females During Pregnancy.	Dr. Archana Bhende
4	Diksha Dange	Bacterial Growth Observation on theFruits	Dr. Archana Bhende
5	Komal Yelekar	Bacteriological Quality of Street Food (Panipuri).	Dr. Archana Bhende
6	Krunali Telrandhe	Diversity of Spiders Fauna in Samudrapur Taluka	Dr. Manohar Ambatkar
7	Nandini Thaware	Diversity of Birds in Hinganghat Tahsil.	Dr. Manohar Ambatkar
8	Neha Changale	Study of Different cholesterol level in Children	Dr. Archana Bhende
9	Pallavi Arade	Diversity of Butterfly Fauna in Samudrapur Tahsil.	Dr. Archana Bhende
10	Roshan Nannaware	Diversity of Moths Fauna in Samudrapur Tahsil.	Dr. Manohar Ambatkar
11	Shital Kalwade	Study of Zooplanktons in HinganghatTahsil.	Dr. Manohar Ambatkar
12	Shreya Thakur	Survey of Haemoglobin	Dr. Manohar Ambatkar
13	Shubhangi Navghare	Study of Effects of Fertilizers on Human Health	Dr. Archana Bhende
14	Tejal Kawale	Survey of Conjunctivitivs Eye fluInfection	Dr. Archana Bhende
15	Tina Wandhare	Study of Bluetooth Earbuds effect on Human Health.	Dr. Manohar Ambatkar
16	Vaishnavi Kalwade	Diversity of Fishes in Hinganghat Tahsil.	Dr. Manohar Ambatkar

Principal
Vidya Vikas Art's Commerce
& Science College, Samudrapur
Dist. Wardha 442305

VIDYA VIKAS ART'S, COMMERCE & SCIENCE COLLEGE, SAMUDRAPUR DIST. WARDHA 442305 (M.S.)

(Affiliated To RTM Nagpur University, Nagpur)



M.Sc. Project

A STUDY ON FIBROADENOMA OF THE BREAST

Submitted by

Priyanka Vinayakrao Satone

M.Sc. Semester IV

For the award of **Master of Science in Zoology**

POST GRADUATE DEPARTMENT OF ZOOLOGY VIDYA VIKAS COLLEGE, SAMUDRAPUR (Academic Year 2022 – 2023)

A STUDY ON FIBROADENOMA OF THE BREAST

Project report submitted in the partial fulfilment of the Degree of

Master of Science in Zoology

in faculty of Science

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

Submitted by

Priyanka Vinayakrao Satone

M.Sc. IV Semester (Zoology) 2022-2023

Supervisor

Dr. Archana M. Bhende M.Sc., B.Ed., M.Phil., Ph.D. Department of Zoology Vidya Vikas College, Samudrapur Dist. Wardha, Maharashtra

VIDYA VIKAS COLLEGE, SAMUDRAPUR

POST GRADUATE DEPARTMENT OF ZOOLOGY (Academic Year 2022 - 2023)



CERTIFICATE

This is to certify that Mr./Ms./Mrs. <u>Priyanka Vinayakrao Satone</u> has successfully completed the M.Sc. Semester IV Project titled <u>A study on fibroadenoma of the breast</u> in the partial fulfillment of the Degree of Master of Science in Zoology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

This project report is the record of authentic work carried out by him/her under my supervision.

Date: 23/06/2023 Place: Samudrapur

Dr. Archana M. Bhende Assistant Professor Department of Zoology Vidya Vikas College, Samudrapur

rentiant Sept 22

Dr. M. S. Ambatkar
Head of the Department
Department of Zoology
Vidya Vidya College Samudraphero
Science College, Samudra

Declaration

I, <u>Priyanka Vinayakrao Satone</u> declare that the project report is based on my own work Carried out during the course of M.Sc. in Zoology under the supervision of Dr. Archana M. Bhende.I certify that the work contained in the report is original and has been done by me under the general supervision of my supervisor. The work has not been submitted to any other Institution for any other degree/diploma/certificate in this university or any other University of India or abroad.

(Signature)

Priyanka Vinayakrao Satone

Roll No. 494291

INDEX

Sr. No.	Contents	Page No
1	Abstract	1
2	Introduction	2
3	Literature Review	4
4	Materials and Methods	7
5	Result and Discussion	9
6	Conclusion	13
7	References	14
8	Acknowledgements	17

Abstract

The aim of this study to spread awareness from Fibroadenoma of the Breast in females. Day by day increase the rate of Fibroadenoma. It is usually occur under the influence of hormonal changes that the girl undergo at the time of puberty and it happen due to overgrowth of glandular tissue in the breast. Some patients or females want to removal Fibroadenoma because of social reason and fear of malignancy. In this survey study, 21 cases of fibroadenomas were between the ages 21 to 30 yrs.

Project

Submitted To

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
ON TOPIC

ORGANIC FERTILIZERS AND UREA ON GROWTH OF CAJANUS

CAJAN (TUR): AN ENVIRONMENTAL CONSERVATION APPROACH



For the partial fulfilment of the requirement degree of

MASTER OF SCIENCE

In the faculty of science (CHEMISTRY)

By Mr. Ashish Dada Zade M. Sc. (Sem IV Student)

Under the guidance of
Dr. M. N. Narule
M.Sc, M.Ed, MBA (HR), Ph.D (Chem), Ph.D (Mang)
POST GRADUATE DEPARTMENT OF CHEMISTRY
VIDYA VIKAS ARTS, COMMERCE AND SCIENCE COLLEGE
SAMUDRAPUR, WARDHA

Session 2023 - 2024

This is to certify that the work reported in the M.Sc. Project entitled "Comparative study of effect of newly synthesized organic fertilizers and area on growth of Cajanus cujan (tur): An environmental conservation approach" has been carried out by Mr. Axhish D. Zade in department of Chemistry VVACSC, Samudrapur under our supervision and that the material from other sources if any is duly acknowledged and that there is no plagiarism. This work has not been submitted earlier to any University/ Institution for any research degree/ diploma to the best of our knowledge.

Date: 22/03/2024

Place: Samudrapur Perominded for 1615/2024

Vidya Vikas Arts Comm & Science College Samudrapur

Principal Vidya Vikas Art's Commerce & Science College, Samudrapur Dist. Wardha 442305

Dr. Meghasham N. Narule

そうでき

Guide

Head, Department of Chemistry, VVACSC, Samudrapur, Wardha

Dr. M. N. Narule Head, Dept. of Chemistry Vidya Vikas Art's, Commerce & Science College, Samudrapur Wardha 442305

A DISSERTATION REPORT

ON

"NAVIGATING THE CARBON DOT LANDSCAPE:
A REVIEW OF ADVANCES, CHALLENGES AND PROMISES."

Project submitted to the

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

2023-24



For the partial fulfillment of the requirement for the degree of

Master of Science in Chemistry

(Faculty of Science)

By

Ms. Kanak Santosh Baraskar M.Sc. Chemistry (Sem-IVth Student)

Under the guidance of
Mrs. Shital W. Awaghade
Assistant Professor
M. Sc. (NET)



POST GRADUATE DEPARTMENT OF CHEMISTRY
VIDYA VIKAS ART'S, COMMERCE AND SCIENCE COLLEGE
SAMUDRAPUR, DIST-WARDHA

VIDYA VIKAS ART'S, COMMERCE & SCIENCE COLLEGE, SAMUDRAPUR DIST, WARDHA 442305 (M.S.)

Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.)

Dr. K. G. Rewalker

email: vidvavikascoll@rediffmail.com website: www.vidyavikascollege.com Ph. & Fax No. 07151 225560, 295440, 9822426769 (Estd. 1989)

CERTIFICATE

This is to certify that the work reported in the M. Sc. Project entitled "Navigating the Carbon Dots Landscape: A Review of Advances, Challenges and Promises." has been carried out by Ms. Kanak Santosh Baraskar in department of Chemistry VVACSC, Samudrapur under our supervision and that the material from other sources if any is duly acknowledged and that there is no plagiarism.

This work has been not submitted earlier to any University/ Institution for any research, degree/diploma to the best of my knowledge.

fer omended for Date: - 22 - 03 - 24

4 Jus

Asst. Prof. S. W. Awaghade

Project Supervisor

Place: - Samudrapur

Dr.M. N. Narule

HOD of Chemistry

Dr. K. G. Rewatkar

Principal Principal

Vidya Vikas Art's Commerce & Science College, Samudrapur Dist. Wardha 442305

Project Submitted to

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur ON TOPIC

"Green route for synthesis of new organic fertilizer and its comparative study with urea on plant growth"



For the partial fulfilment of the requirement degree of

MASTER OF SCIENCE

In the faculty of science (CHEMISTRY)

By

Miss. Divya Sharadrao Ghugase

M.Sc. Chemistry (Sem-IVth Student)

Under the guidance of

Dr. M. N. Narule

M. Sc., M. Ed., MBA (HR), Ph. D (Chem), Ph. D (Mang)

POST GRADUATE DEPARTMENT OF CHEMISTRY
VIDYA VIKAS ARTS, COMMERCE AND SCIENCE COLLEGE
SAMUDRAPUR, WARDHA

Session 2023-2024

This is to certify that the work reported in the M.Sc. Project entitled "Green route for synthesis of new organic fertilizer and its comparative study with urea on plant growth" has been carried out by Ms. Divya S. Ghugase in department of Chemistry VVACSC, Samudrapur under our supervision and that the material from other sources if any is duly acknowledged and that there is no plagiarism. This work has not been submitted earlier to any University/ Institution for any research degree/ diploma to the best of our knowledge.

Date: 22/03/24

Place: Samudrapur

peromended for

Juniy 28 16/5/24

Principal

VVACSC Samudrapur

Wardha
Principal
Vidya Vikes Art's Commerce
& Science College, Samudrapur
Dist, Wardha 442305

Dr. Meghasham N. Narule

HINV

Guide

Head, Department of Chemistry, VVACSC Samudrapur, Wardha

Dr. M. N. Narute
Head, Dept. of Chemistry
Vidya Vikas Art's, Commerce
& Science College, Samudrapur
Wardha 442305

A PROJECT TOPIC ON

"VOLUMETRIC, VISCOMETRIC & REFRACTIVE INDEX BAHEVIOUR OF SUGAR & POLYHYDRIC ALCOHOL IN AQUEOUS MEDIUM AT ROOM TEMPRETURE"

Project Submitted to Rastrasant Tukdoji Maharaj Nagpur University, Nagpur 2023-2024



For The Partial Fulfillment of the requirement degree of

MASTER OF SCIENCE
In the faculty of science
(CHEMISTRY)

Submitted by
Miss. Ankita S. Mathankar
M.Sc.II nd year (Chemistry)

Underthe guidance of Dr. R.G.Gajbhiye M.Sc., Ph. D., NET, SET, GATE

POST GRADUATE DEPARTMENT OF CHEMISTRY VIDYA
VIKAS ART'S, COMMERCE ANDSCIENCE COLLEGE
SAMUDRAPUR, DIST-WARDHA

Certificate

This is to certify that the work reported in the M. Sc. Project entitled "VOLUMETRIC, VISCOMETRIC & REFRACTIVE INDEX BAHEVIOUR OF SUGAR & POLYHYDRIC ALCOHOL IN AQUEOUS MEDIUM AT ROOM TEMPRETURE" has been carried out by Miss. Ankita S. Mathankar in department of Chemistry VVACSC, Samudrapur under our supervision and that the material from other sources if any is duly acknowledged and that there is no plagiarism. This work has been not submitted earlier to any University / Institution for any research, degree / diploma to the best of my knowledge.

Date :-

Place: - Samudrapur

Junua 2 1615/2024

Dr. R.G. Gajbhiye Assistant Professor Of Chemistry VVACSC, Samudrapur, Dist - Wardha

Head Of Department Dr. M. N. Narule

Principal Dr. K.G.Rewatkar

A DISSERTATION REPORT ON

"Advancement in the Exploration & Structural innovation of Rare Earth doped Color conversion Phosphors for LED Application"

Project submitted to the

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

2023-24



For the partial fulfillment of the requirement degree of

MASTER OF SCIENCE

In the faculty of science

By

Miss. Pranali D. Wath

M.Sc. Chemistry (Sem-IVth Student)

Under the guidance of

Mrs. Shital W. Awaghade

Assistance professor

M.Sc. (NET)



POST GRADUATE DEPARTMENT OF CHEMISTRY

VIDYA VIKAS ART'S, COMMERCE AND SCIENCE COLLEGE

SAMUDRAPUR, DIST-WARDHA

This is to certify that the work reported in the M. Sc. Project entitled "Advancement in the eploration & structural innovation of color conversion phosphors for LED application" has been carried out by Miss Pranali D. Wath in department of Chemistry VVACSC, Samudrapur under my supervision and that the material from other sources if any is duly acknowledged and that there is no plagiarism. This work has been not submitted earlier to any University/ Institution for any research, degree/diploma to the best of my knowledge.

Date: - 22 - 03 - 2024

Place: - Samudrapur

Asst. Prof. S. W. Awaghade

Project Supervisor

Dr. M. N. Narule

Head Department of

Chemistry

Dr. K. G. Rewatkar

Principal

Principal

Vidya Vikas Art's Commerce & Science College, Samudrapur

Dist. Wardha 442305